

Project No.	SHT2111082706EW		
Test sample No.	YPHT21110827020	Model No.	A520T
Start test date	2022/6/16	Finish date	2022/7/4
Temperature	24.2℃	Humidity	50%
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

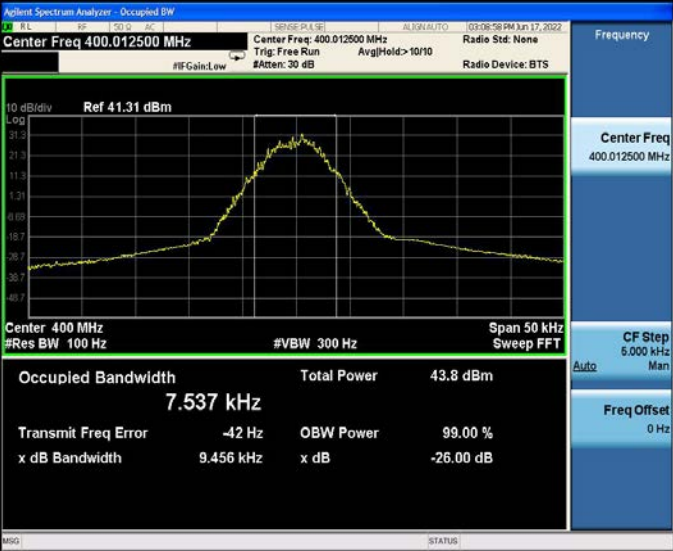
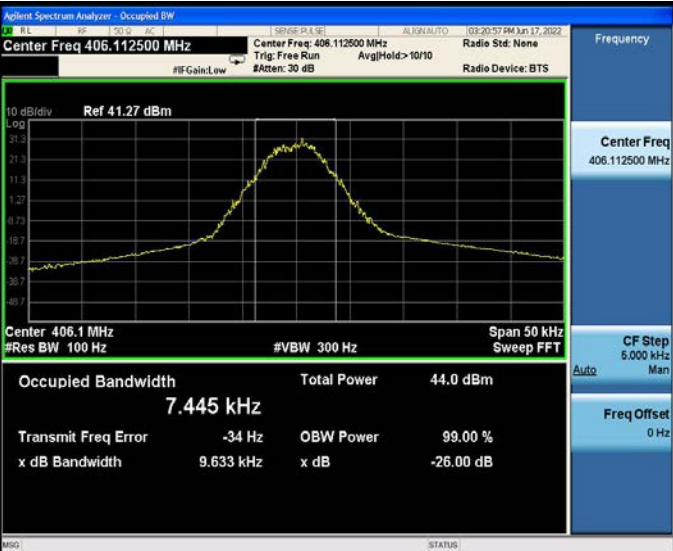
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	35.9	3.89	4.50	-13.6	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.1	4.07	4.50	-9.6	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.1	4.07	4.50	-9.6	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.9	3.89	4.50	-13.6	±20	PASS
TX-DNH	4FSK	CH _H	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNL	4FSK	CH _L	31.2	1.32	1.50	-12.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	31.6	1.45	1.50	-3.3	±20	PASS
TX-DNL	4FSK	CH _{M2}	31.6	1.45	1.50	-3.3	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.7	1.48	1.50	-1.3	±20	PASS
TX-DNL	4FSK	CH _H	31.4	1.38	1.50	-8.0	±20	PASS
TX-ANH	FM	CH _L	36.1	4.07	4.50	-9.6	±20	PASS
TX-ANH	FM	CH _{M1}	36.3	4.27	4.50	-5.1	±20	PASS
TX-ANH	FM	CH _{M2}	36.4	4.37	4.50	-2.9	±20	PASS
TX-ANH	FM	CH _{M3}	36.2	4.17	4.50	-7.3	±20	PASS
TX-ANH	FM	CH _H	35.6	3.63	4.50	-19.3	±20	PASS
TX-ANL	FM	CH _L	31.8	1.51	1.50	0.7	±20	PASS
TX-ANL	FM	CH _{M1}	32.2	1.66	1.50	10.7	±20	PASS
TX-ANL	FM	CH _{M2}	32.2	1.66	1.50	10.7	±20	PASS
TX-ANL	FM	CH _{M3}	32.0	1.58	1.50	5.3	±20	PASS
TX-ANL	FM	CH _H	31.8	1.51	1.50	0.7	±20	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.537	9.456	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.505	9.513	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.445	9.633	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.784	9.685	≤ 11.25	PASS
TX-DNH	4FSK	CH _H	7.392	9.639	≤ 11.25	PASS
TX-DNL	4FSK	CH _L	7.629	10.060	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.591	9.809	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.691	9.436	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.718	9.980	≤ 11.25	PASS
TX-DNL	4FSK	CH _H	7.686	9.827	≤ 11.25	PASS
TX-ANH	FM	CH _L	5.174	10.030	≤ 11.25	PASS
TX-ANH	FM	CH _{M1}	5.177	10.050	≤ 11.25	PASS
TX-ANH	FM	CH _{M2}	5.177	10.050	≤ 11.25	PASS
TX-ANH	FM	CH _{M3}	5.176	10.040	≤ 11.25	PASS
TX-ANH	FM	CH _H	5.171	7.650	≤ 11.25	PASS
TX-ANL	FM	CH _L	5.174	10.070	≤ 11.25	PASS
TX-ANL	FM	CH _{M1}	5.177	10.050	≤ 11.25	PASS
TX-ANL	FM	CH _{M2}	5.177	10.050	≤ 11.25	PASS
TX-ANL	FM	CH _{M3}	5.176	10.040	≤ 11.25	PASS
TX-ANL	FM	CH _H	5.171	7.649	≤ 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 41.31 dBm Occupied Bandwidth 7.537 kHz Total Power 43.8 dBm Transmit Freq Error -42 Hz OBW Power 99.00 % x dB Bandwidth 9.456 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 41.30 dBm Occupied Bandwidth 7.505 kHz Total Power 44.4 dBm Transmit Freq Error -84 Hz OBW Power 99.00 % x dB Bandwidth 9.513 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 41.27 dBm Occupied Bandwidth 7.445 kHz Total Power 44.0 dBm Transmit Freq Error -34 Hz OBW Power 99.00 % x dB Bandwidth 9.633 kHz x dB -26.00 dB

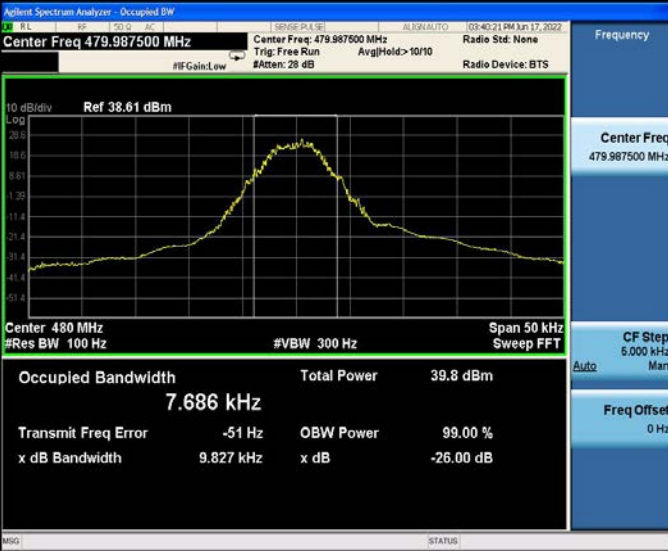
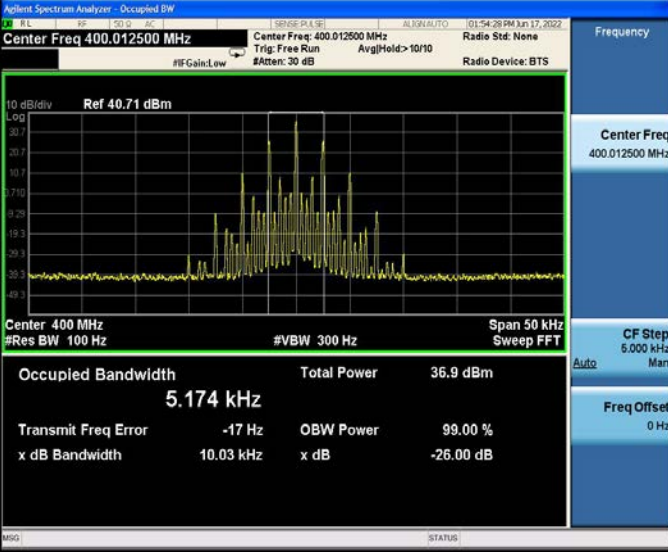
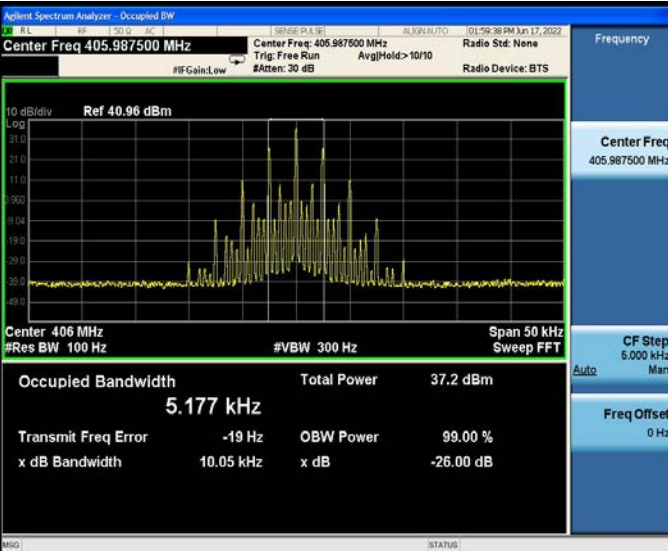
Appendix B:Occupied Bandwidth

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 40.99 dBm Occupied Bandwidth 7.784 kHz Total Power 44.2 dBm Transmit Freq Error -22 Hz OBW Power 99.00 % x dB Bandwidth 9.685 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Ref 40.33 dBm Occupied Bandwidth 7.392 kHz Total Power 43.7 dBm Transmit Freq Error -178 Hz OBW Power 99.00 % x dB Bandwidth 9.639 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 39.81 dBm Occupied Bandwidth 7.629 kHz Total Power 39.1 dBm Transmit Freq Error -91 Hz OBW Power 99.00 % x dB Bandwidth 10.06 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 40.32 dBm Occupied Bandwidth 7.591 kHz Total Power 39.9 dBm Transmit Freq Error -31 Hz OBW Power 99.00 % x dB Bandwidth 9.809 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 40.31 dBm Occupied Bandwidth 7.691 kHz Total Power 39.8 dBm Transmit Freq Error -122 Hz OBW Power 99.00 % x dB Bandwidth 9.436 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 39.14 dBm Occupied Bandwidth 7.718 kHz Total Power 40.0 dBm Transmit Freq Error -124 Hz OBW Power 99.00 % x dB Bandwidth 9.980 kHz x dB -26.00 dB

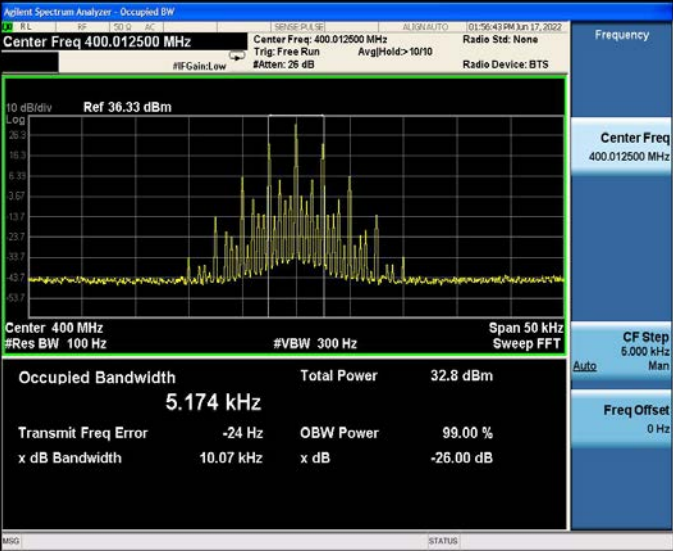
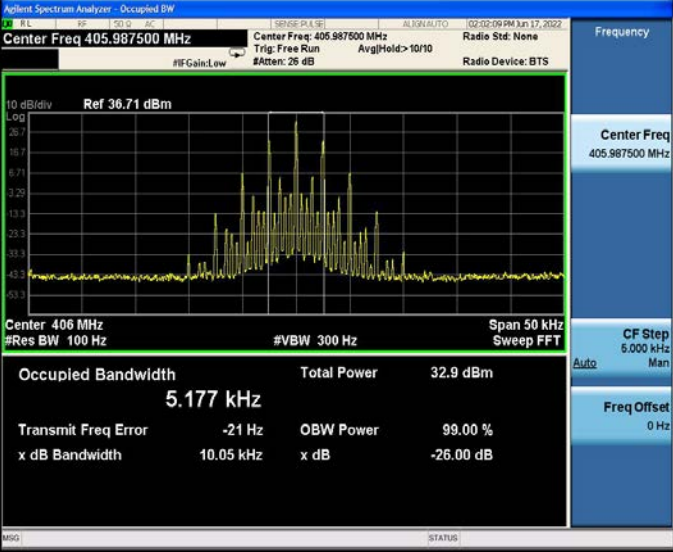
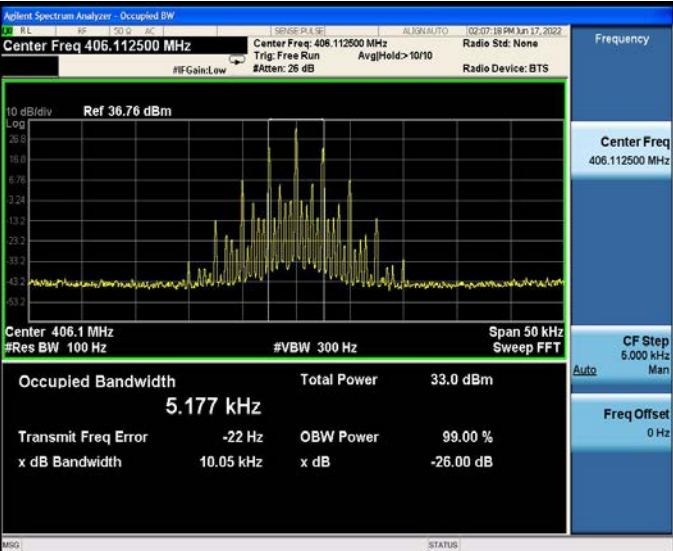
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Ref 38.61 dBm Occupied Bandwidth 7.686 kHz Total Power 39.8 dBm Transmit Freq Error -51 Hz x dB Bandwidth 9.827 kHz
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 40.71 dBm Occupied Bandwidth 5.174 kHz Total Power 36.9 dBm Transmit Freq Error -17 Hz x dB Bandwidth 10.03 kHz
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 40.96 dBm Occupied Bandwidth 5.177 kHz Total Power 37.2 dBm Transmit Freq Error -19 Hz x dB Bandwidth 10.05 kHz

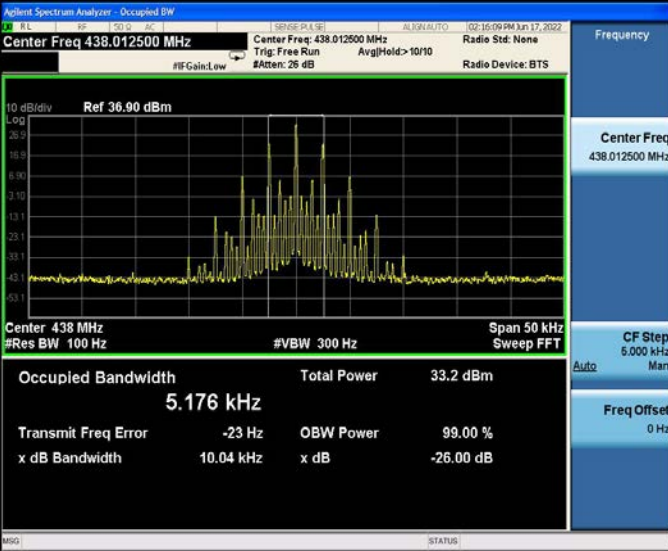
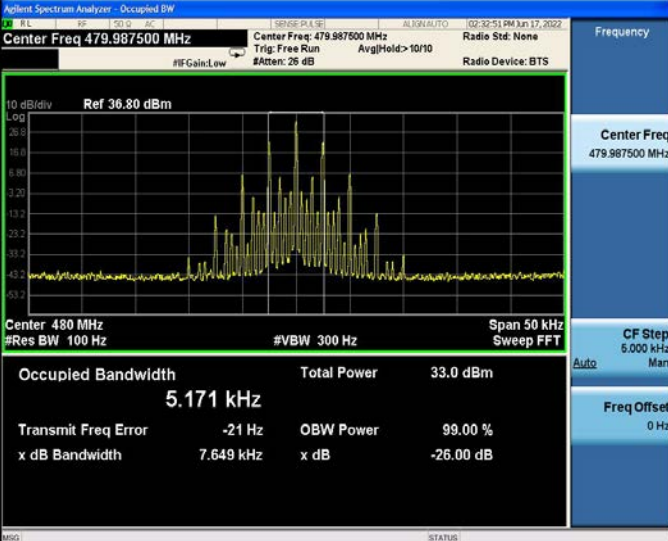
Appendix B:Occupied Bandwidth

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 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Frequency Center Freq 406.112500 MHz CF Step 5.000 kHz Auto Freq Offset 0 Hz Occupied Bandwidth 5.177 kHz Total Power 37.3 dBm Transmit Freq Error -22 Hz OBW Power 99.00 % x dB Bandwidth 10.05 kHz x dB -26.00 dB
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 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Auto Freq Offset 0 Hz Occupied Bandwidth 5.176 kHz Total Power 37.2 dBm Transmit Freq Error -22 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB
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 #IF Gain: Low #Atten: 30 dB Radio Device: BTS Frequency Center Freq 479.987500 MHz CF Step 5.000 kHz Auto Freq Offset 0 Hz Occupied Bandwidth 5.171 kHz Total Power 36.6 dBm Transmit Freq Error -23 Hz OBW Power 99.00 % x dB Bandwidth 7.650 kHz x dB -26.00 dB

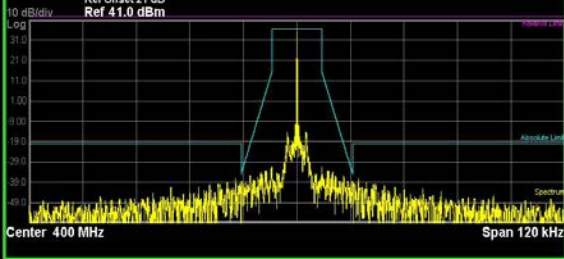
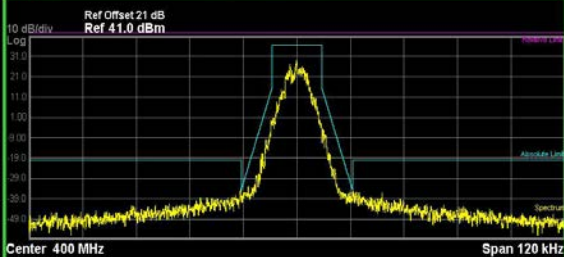
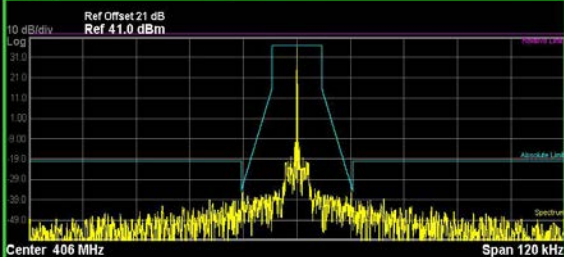
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 36.33 dBm Occupied Bandwidth 5.174 kHz Total Power 32.8 dBm Transmit Freq Error -24 Hz x dB Bandwidth 10.07 kHz OBW Power 99.00 % x dB -26.00 dB
TX-ANL	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 36.71 dBm Occupied Bandwidth 5.177 kHz Total Power 32.9 dBm Transmit Freq Error -21 Hz x dB Bandwidth 10.05 kHz OBW Power 99.00 % x dB -26.00 dB
TX-ANL	FM	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 36.76 dBm Occupied Bandwidth 5.177 kHz Total Power 33.0 dBm Transmit Freq Error -22 Hz x dB Bandwidth 10.05 kHz OBW Power 99.00 % 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 Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 36.90 dBm 10 dB/div Log Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.176 kHz Total Power 33.2 dBm Transmit Freq Error -23 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 36.80 dBm 10 dB/div Log Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.171 kHz Total Power 33.0 dBm Transmit Freq Error -21 Hz OBW Power 99.00 % x dB Bandwidth 7.649 kHz x dB -26.00 dB Frequency Center Freq 479.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz

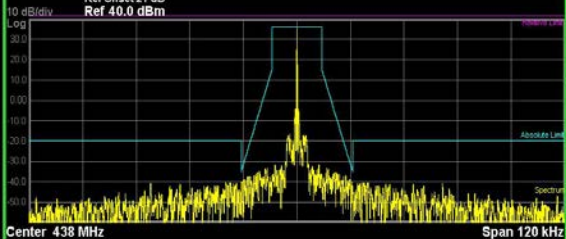
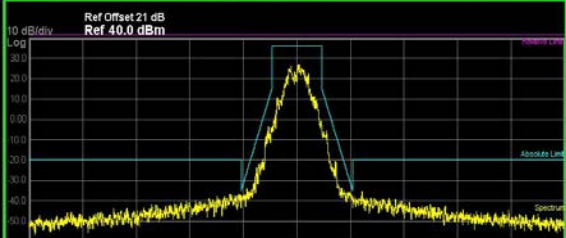
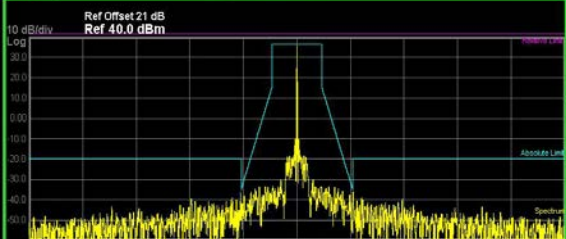
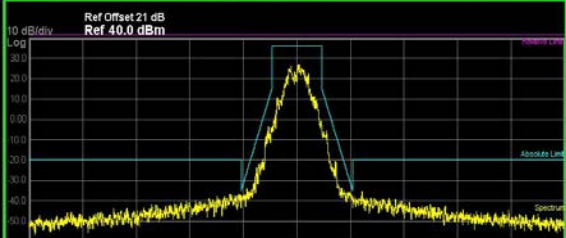
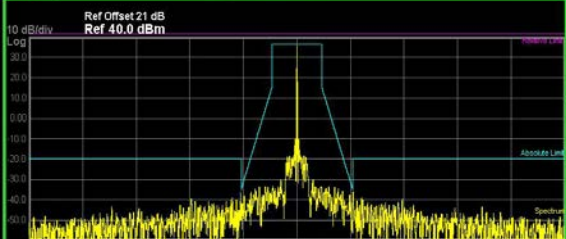
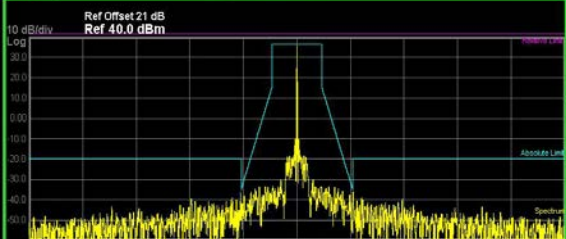
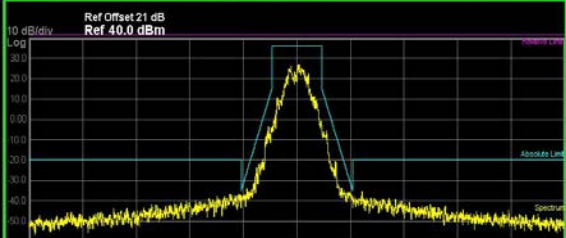
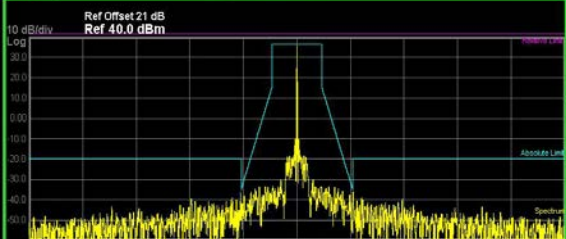
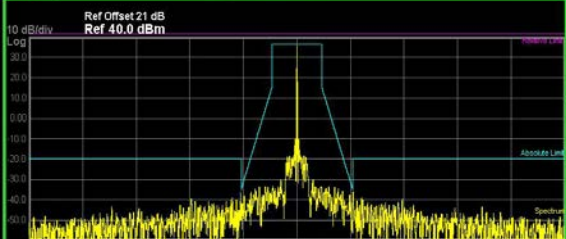
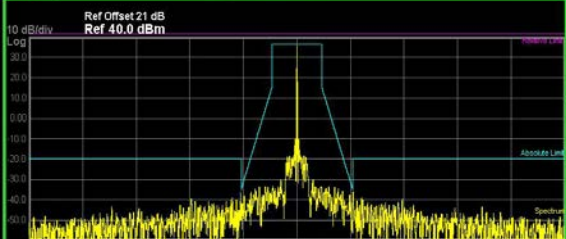
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 35.48 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>34.95</td><td>(-1.59)</td><td>0.0</td><td>35.48</td><td>(-1.06)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.46</td><td>(-4.29)</td><td>-12.40 k</td><td>-38.74</td><td>(-3.84)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.29</td><td>(-17.29)</td><td>-13.70 k</td><td>-37.32</td><td>(-17.32)</td><td>13.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	34.95	(-1.59)	0.0	35.48	(-1.06)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.46	(-4.29)	-12.40 k	-38.74	(-3.84)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.29	(-17.29)	-13.70 k	-37.32	(-17.32)	13.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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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 Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 39.72 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 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>29.04</td><td>(7.50)</td><td>50.00</td><td>27.19</td><td>(9.35)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.57</td><td>(-3.77)</td><td>-12.35 k</td><td>-35.84</td><td>(-2.04)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.05</td><td>(-14.05)</td><td>-12.60 k</td><td>-35.48</td><td>(-15.48)</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	29.04	(7.50)	50.00	27.19	(9.35)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.57	(-3.77)	-12.35 k	-35.84	(-2.04)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.05	(-14.05)	-12.60 k	-35.48	(-15.48)	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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	29.04	(7.50)	50.00	27.19	(9.35)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-37.57	(-3.77)	-12.35 k	-35.84	(-2.04)	12.35 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-34.05	(-14.05)	-12.60 k	-35.48	(-15.48)	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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 41.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 36.15 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>35.30</td><td>(-1.52)</td><td>0.0</td><td>35.56</td><td>(-1.26)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.64</td><td>(-3.20)</td><td>-12.20 k</td><td>-35.35</td><td>(-2.55)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.99</td><td>(-18.99)</td><td>-19.45 k</td><td>-38.64</td><td>(-18.64)</td><td>19.55 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	35.30	(-1.52)	0.0	35.56	(-1.26)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.64	(-3.20)	-12.20 k	-35.35	(-2.55)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.99	(-18.99)	-19.45 k	-38.64	(-18.64)	19.55 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	—	(—)	—	—	(—)	—																																																										
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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 21 dB Ref 41.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 39.98 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>27.11</td><td>(-9.71)</td><td>-1.050 k</td><td>28.33</td><td>(-8.49)</td><td>400.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.38</td><td>(-1.77)</td><td>-12.50 k</td><td>-37.30</td><td>(-3.04)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.59</td><td>(-13.59)</td><td>-13.95 k</td><td>-34.76</td><td>(-14.76)</td><td>15.35 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	27.11	(-9.71)	-1.050 k	28.33	(-8.49)	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.38	(-1.77)	-12.50 k	-37.30	(-3.04)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.59	(-13.59)	-13.95 k	-34.76	(-14.76)	15.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 21 dB Ref 41.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 35.68 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>35.24</td><td>(-1.68)</td><td>0.0</td><td>35.67</td><td>(-1.26)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.44</td><td>(-7.68)</td><td>-12.40 k</td><td>-41.43</td><td>(-8.92)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.98</td><td>(-16.98)</td><td>-13.75 k</td><td>-37.09</td><td>(-17.09)</td><td>13.85 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 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	35.24	(-1.68)	0.0	35.67	(-1.26)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.44	(-7.68)	-12.40 k	-41.43	(-8.92)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.98	(-16.98)	-13.75 k	-37.09	(-17.09)	13.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 21 dB Ref 41.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 39.92 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>28.23</td><td>(-8.70)</td><td>-150.0</td><td>28.29</td><td>(-8.64)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.18</td><td>(-3.87)</td><td>-12.50 k</td><td>-38.77</td><td>(-3.72)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.55</td><td>(-16.55)</td><td>-13.50 k</td><td>-35.34</td><td>(-15.34)</td><td>13.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz 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	28.23	(-8.70)	-150.0	28.29	(-8.64)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.18	(-3.87)	-12.50 k	-38.77	(-3.72)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.55	(-16.55)	-13.50 k	-35.34	(-15.34)	13.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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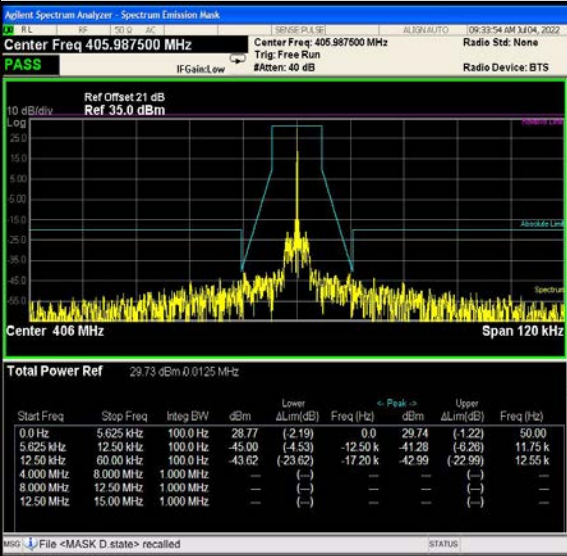
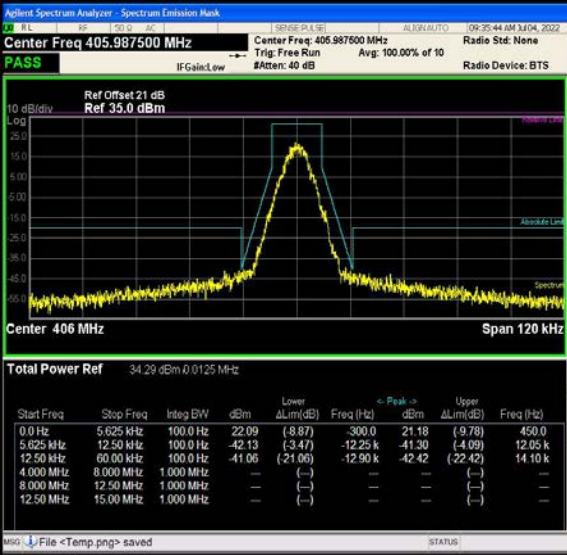
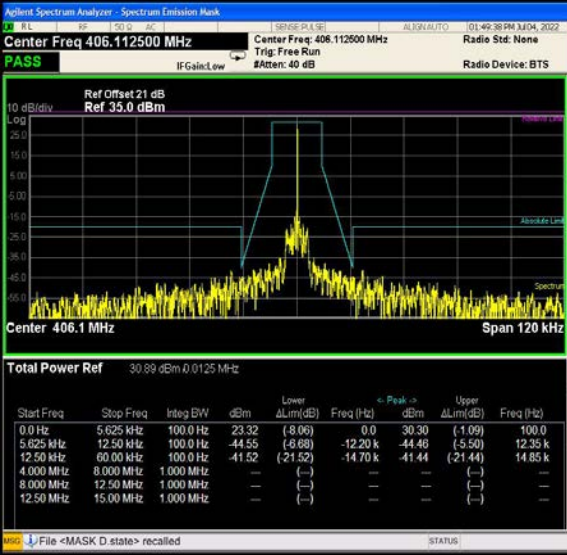
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 21 dB Ref 40.0 dBm Center Freq 438.012500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz  Center 438 MHz Span 120 kHz Total Power Ref 35.88 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>35.06</td><td>(-1.24)</td><td>0.0</td><td>35.29</td><td>(-1.01)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.38</td><td>(-5.24)</td><td>-12.50 k</td><td>-40.04</td><td>(-5.63)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.33</td><td>(-20.33)</td><td>-15.90 k</td><td>-40.71</td><td>(-20.71)</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> File <MASK.D state> recalled <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 21 dB Ref 40.0 dBm Center Freq 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz  Center 438 MHz Span 120 kHz Total Power Ref 39.30 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>26.21</td><td>(-10.09)</td><td>-1.250 k</td><td>26.93</td><td>(9.37)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.44</td><td>(-2.30)</td><td>-12.50 k</td><td>-37.80</td><td>(-2.66)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.60</td><td>(-16.60)</td><td>-13.15 k</td><td>-35.37</td><td>(-15.37)</td><td>14.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved <tr><td>TX-DNH</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Ref Offset 21 dB Ref 40.0 dBm Center Freq 479.987500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz  Center 470 MHz Span 120 kHz Total Power Ref 36.08 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>35.24</td><td>(-1.26)</td><td>0.0</td><td>35.50</td><td>(-1.00)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.42</td><td>(-8.48)</td><td>-12.50 k</td><td>-37.98</td><td>(-7.78)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.33</td><td>(-16.33)</td><td>-12.60 k</td><td>-36.14</td><td>(-16.14)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D state> recalled	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	35.24	(-1.26)	0.0	35.50	(-1.00)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.42	(-8.48)	-12.50 k	-37.98	(-7.78)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.33	(-16.33)	-12.60 k	-36.14	(-16.14)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																						
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _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 PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 40.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 40.13 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>25.94</td><td>(-10.55)</td><td>-1.900 k</td><td>28.34</td><td>(-8.16)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.89</td><td>(-1.77)</td><td>-12.25 k</td><td>-37.18</td><td>(-3.33)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.06</td><td>(-16.06)</td><td>-13.70 k</td><td>-35.33</td><td>(-15.33)</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 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.94	(-10.55)	-1.900 k	28.34	(-8.16)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.89	(-1.77)	-12.25 k	-37.18	(-3.33)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.06	(-16.06)	-13.70 k	-35.33	(-15.33)	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	—	(—)	—	—	(—)	—
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 Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 34.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 29.52 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>26.93</td><td>(-2.78)</td><td>0.0</td><td>28.51</td><td>(-1.20)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.06</td><td>(-11.51)</td><td>-11.10 k</td><td>-42.20</td><td>(-9.92)</td><td>11.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-46.54</td><td>(-26.54)</td><td>-17.55 k</td><td>-46.91</td><td>(-26.91)</td><td>16.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 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	26.93	(-2.78)	0.0	28.51	(-1.20)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.06	(-11.51)	-11.10 k	-42.20	(-9.92)	11.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.54	(-26.54)	-17.55 k	-46.91	(-26.91)	16.50 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-DNL	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 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 34.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 33.43 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>20.80</td><td>(-8.91)</td><td>-950.0</td><td>21.95</td><td>(-7.75)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.52</td><td>(-2.88)</td><td>-12.35 k</td><td>-44.68</td><td>(-3.31)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.57</td><td>(-22.57)</td><td>-13.00 k</td><td>-43.10</td><td>(-23.10)</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 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	20.80	(-8.91)	-950.0	21.95	(-7.75)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.52	(-2.88)	-12.35 k	-44.68	(-3.31)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.57	(-22.57)	-13.00 k	-43.10	(-23.10)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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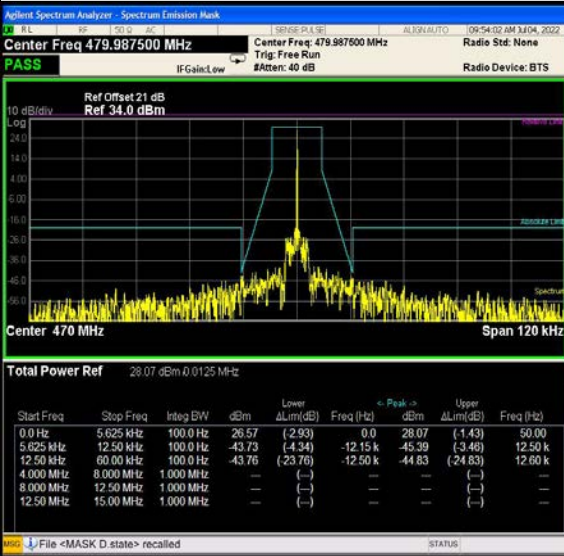
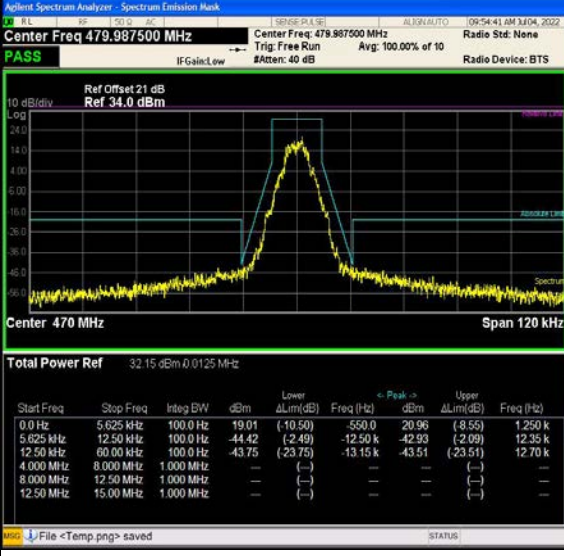
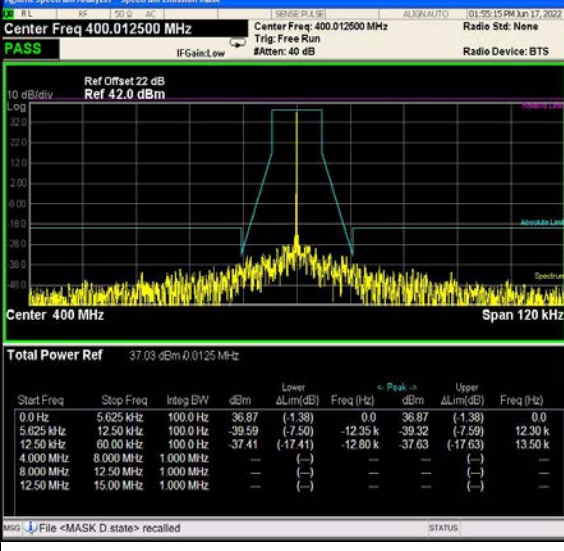
Appendix C:Emission Mask

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

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 PASS IF Gain: Low 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 34.97 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 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>22.61</td><td>(-8.78)</td><td>-750.0</td><td>22.39</td><td>(-8.99)</td><td>1.600 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.49</td><td>(-1.17)</td><td>-12.40 k</td><td>-40.35</td><td>(-0.31)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.57</td><td>(-20.57)</td><td>-13.90 k</td><td>-40.31</td><td>(-20.31)</td><td>15.05 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 406.112500 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	22.61	(-8.78)	-750.0	22.39	(-8.99)	1.600 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.49	(-1.17)	-12.40 k	-40.35	(-0.31)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.57	(-20.57)	-13.90 k	-40.31	(-20.31)	15.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS IF Gain: Low 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 28.83 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>27.61</td><td>(-2.31)</td><td>0.0</td><td>28.83</td><td>(-1.09)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.35</td><td>(-7.38)</td><td>-12.15 k</td><td>-43.38</td><td>(-5.14)</td><td>12.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.72</td><td>(-23.72)</td><td>-13.25 k</td><td>-43.61</td><td>(-23.61)</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 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.61	(-2.31)	0.0	28.83	(-1.09)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-46.35	(-7.38)	-12.15 k	-43.38	(-5.14)	12.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.72	(-23.72)	-13.25 k	-43.61	(-23.61)	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	—	(—)	—	—	(—)	—
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 _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS IF Gain: Low 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 33.76 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>20.11</td><td>(-9.82)</td><td>-100.0</td><td>21.55</td><td>(-8.37)</td><td>1.300 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.90</td><td>(-3.84)</td><td>-12.30 k</td><td>-43.87</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>-41.07</td><td>(-21.07)</td><td>-13.95 k</td><td>-41.74</td><td>(-21.74)</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> 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.11	(-9.82)	-100.0	21.55	(-8.37)	1.300 k	5.625 kHz	12.50 kHz	100.0 Hz	-43.90	(-3.84)	-12.30 k	-43.87	(-2.35)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.07	(-21.07)	-13.95 k	-41.74	(-21.74)	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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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

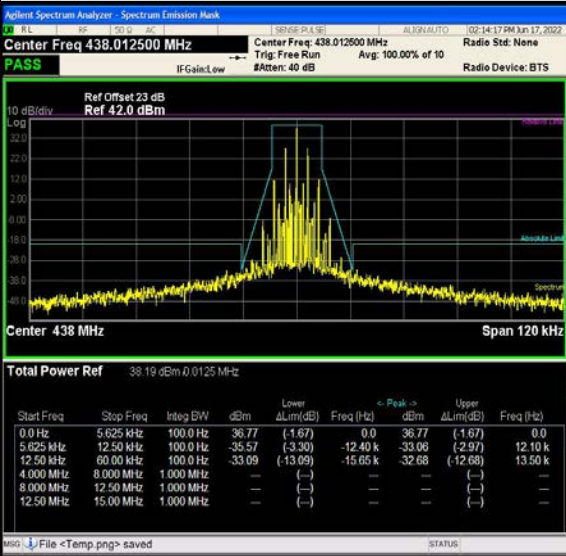
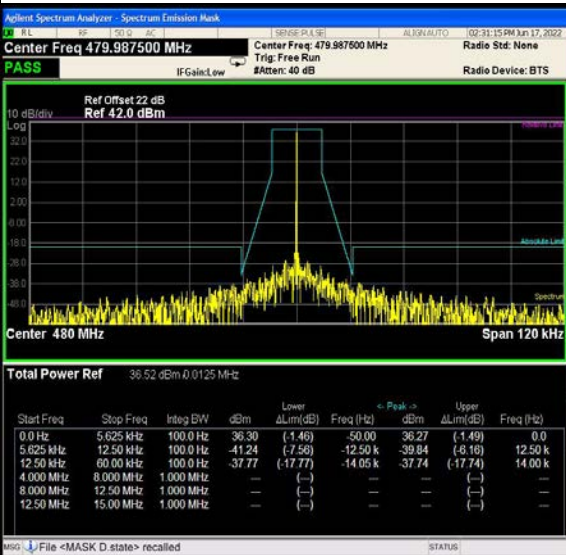
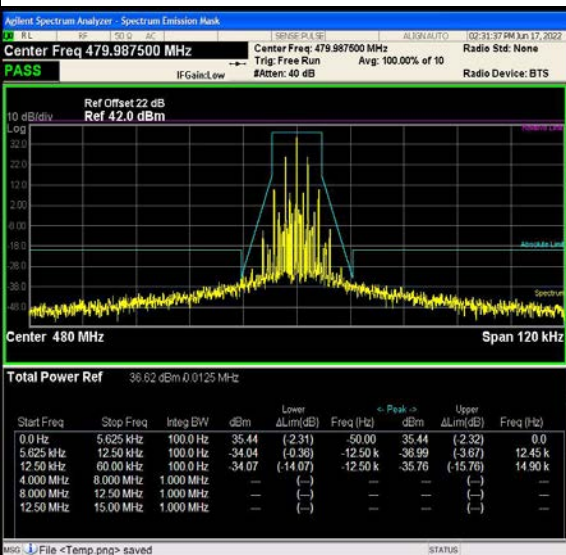
Appendix C:Emission Mask

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 Center Freq: 400.012500 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 400 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 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>36.00</td><td>(-2.26)</td><td>-50.00</td><td>35.98</td><td>(-2.27)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.35</td><td>(-2.90)</td><td>-12.40 k</td><td>-36.28</td><td>(-3.08)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.02</td><td>(-15.02)</td><td>-14.05 k</td><td>-34.44</td><td>(-14.44)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	36.00	(-2.26)	-50.00	35.98	(-2.27)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.35	(-2.90)	-12.40 k	-36.28	(-3.08)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.02	(-15.02)	-14.05 k	-34.44	(-14.44)	14.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	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 IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 37.29 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>37.07</td><td>(-1.40)</td><td>-50.00</td><td>37.05</td><td>(-1.43)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.07</td><td>(-4.29)</td><td>-12.20 k</td><td>-35.21</td><td>(-4.80)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.72</td><td>(-15.72)</td><td>-12.70 k</td><td>-35.70</td><td>(-15.70)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	37.07	(-1.40)	-50.00	37.05	(-1.43)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.07	(-4.29)	-12.20 k	-35.21	(-4.80)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.72	(-15.72)	-12.70 k	-35.70	(-15.70)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	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 IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 37.33 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>36.16</td><td>(-2.31)</td><td>-50.00</td><td>36.12</td><td>(-2.35)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.30</td><td>(-4.06)</td><td>-12.40 k</td><td>-35.93</td><td>(-4.06)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.70</td><td>(-14.70)</td><td>-14.60 k</td><td>-33.77</td><td>(-13.77)</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> 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	36.16	(-2.31)	-50.00	36.12	(-2.35)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.30	(-4.06)	-12.40 k	-35.93	(-4.06)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.70	(-14.70)	-14.60 k	-33.77	(-13.77)	13.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS IF Gain: Low Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 43.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 37.32 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 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>37.06</td><td>(-1.45)</td><td>0.0</td><td>37.06</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>-35.08</td><td>(-2.87)</td><td>-12.40 k</td><td>-35.21</td><td>(-3.37)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.70</td><td>(-15.70)</td><td>-12.55 k</td><td>-35.59</td><td>(-15.59)</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> Frequency Center Freq 406.112500 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	37.06	(-1.45)	0.0	37.06	(-1.45)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.08	(-2.87)	-12.40 k	-35.21	(-3.37)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.70	(-15.70)	-12.55 k	-35.59	(-15.59)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 kHz	60.00 kHz	100.0 Hz	-35.70	(-15.70)	-12.55 k	-35.59	(-15.59)	12.50 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS IF Gain: Low Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 43.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 37.40 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak 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>36.14</td><td>(-2.37)</td><td>0.0</td><td>36.14</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>-35.36</td><td>(-3.88)</td><td>-12.30 k</td><td>-34.25</td><td>(-4.23)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.23</td><td>(-13.23)</td><td>-12.90 k</td><td>-32.76</td><td>(-12.76)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 406.112500 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	36.14	(-2.37)	0.0	36.14	(-2.37)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.36	(-3.88)	-12.30 k	-34.25	(-4.23)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.23	(-13.23)	-12.90 k	-32.76	(-12.76)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS IF Gain: Low Center Freq: 438.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 37.91 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>37.67</td><td>(-0.77)</td><td>0.0</td><td>37.67</td><td>(-0.77)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.04</td><td>(-2.77)</td><td>-12.40 k</td><td>-35.05</td><td>(-3.14)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.86</td><td>(-14.86)</td><td>-18.50 k</td><td>-35.01</td><td>(-15.01)</td><td>18.45 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	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	37.67	(-0.77)	0.0	37.67	(-0.77)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.04	(-2.77)	-12.40 k	-35.05	(-3.14)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.86	(-14.86)	-18.50 k	-35.01	(-15.01)	18.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	37.67	(-0.77)	0.0	37.67	(-0.77)	0.0																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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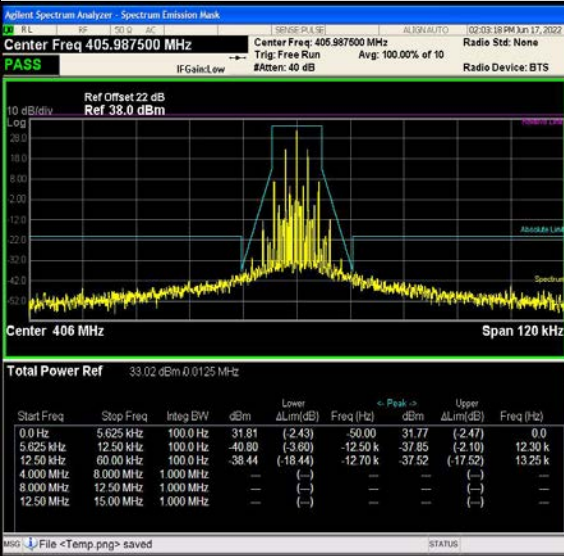
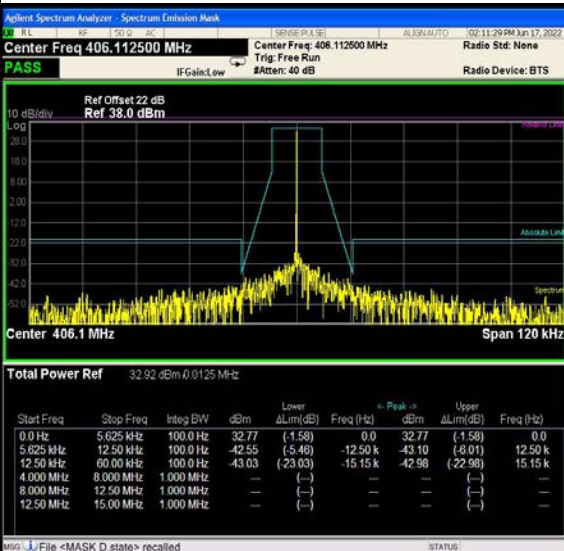
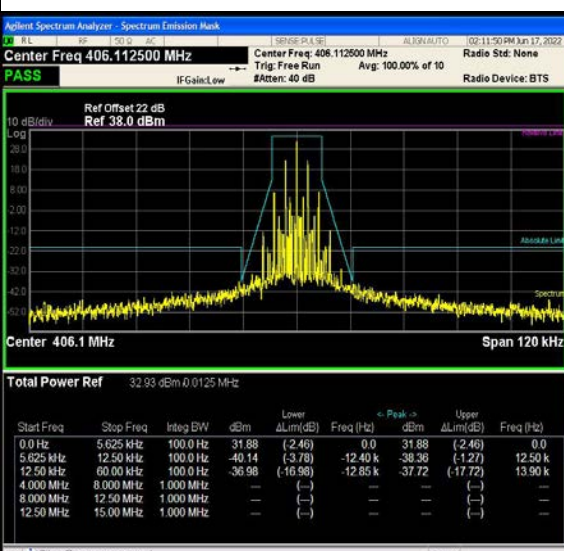
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANH	FM	CH _{M3}		Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz
TX-ANH	FM	CH _H		Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz
TX-ANH	FM	CH _H		Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz

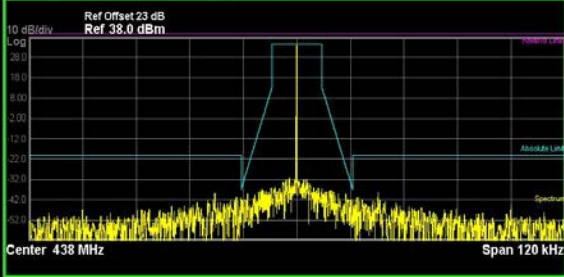
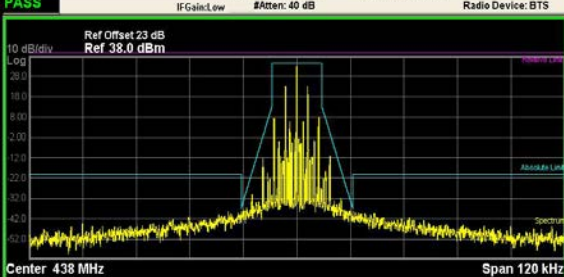
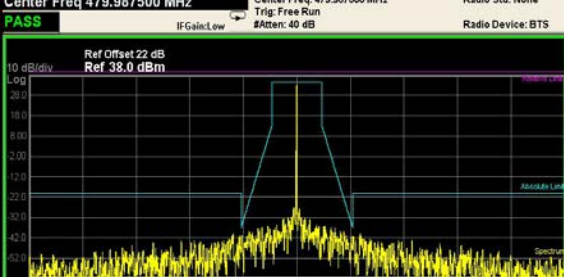
Appendix C:Emission Mask

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 Ref Offset 22 dB Ref 38.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 32.61 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>32.38</td><td>(-1.48)</td><td>-50.00</td><td>32.35</td><td>(-1.50)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.08</td><td>(-4.47)</td><td>-12.50 k</td><td>-42.68</td><td>(-5.46)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.52</td><td>(-20.52)</td><td>-13.00 k</td><td>-40.52</td><td>(-20.52)</td><td>12.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></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	32.38	(-1.48)	-50.00	32.35	(-1.50)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.08	(-4.47)	-12.50 k	-42.68	(-5.46)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.52	(-20.52)	-13.00 k	-40.52	(-20.52)	12.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS IF Gain: Low Ref Offset 22 dB Ref 38.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 32.89 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>31.47</td><td>(-2.39)</td><td>0.0</td><td>31.47</td><td>(-2.39)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.30</td><td>(-3.44)</td><td>-12.40 k</td><td>-41.96</td><td>(-5.10)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.02</td><td>(-19.02)</td><td>-13.05 k</td><td>-39.67</td><td>(-19.67)</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	31.47	(-2.39)	0.0	31.47	(-2.39)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.30	(-3.44)	-12.40 k	-41.96	(-5.10)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.02	(-19.02)	-13.05 k	-39.67	(-19.67)	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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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS IF Gain: Low Ref Offset 22 dB Ref 38.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 32.97 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 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>32.74</td><td>(-1.50)</td><td>-50.00</td><td>32.71</td><td>(-1.53)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.92</td><td>(-3.54)</td><td>-12.25 k</td><td>-38.33</td><td>(-3.31)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.76</td><td>(-19.76)</td><td>-13.30 k</td><td>-39.93</td><td>(-19.93)</td><td>13.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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	32.74	(-1.50)	-50.00	32.71	(-1.53)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.92	(-3.54)	-12.25 k	-38.33	(-3.31)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.76	(-19.76)	-13.30 k	-39.93	(-19.93)	13.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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	-39.76	(-19.76)	-13.30 k	-39.93	(-19.93)	13.25 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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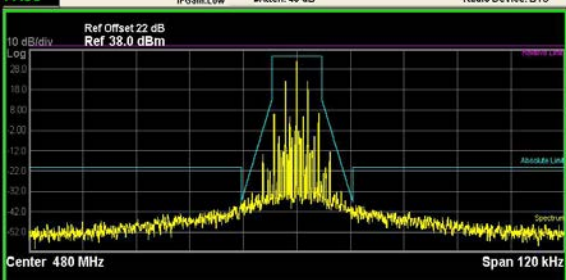
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANL	FM	CH _{M1}		Frequency Center Freq 405.987500 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 406.112500 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-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 38.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 33.89 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>33.69</td><td>(0.78)</td><td>50.00</td><td>33.66</td><td>(0.81)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.90</td><td>(-8.38)</td><td>-12.30 k</td><td>-42.00</td><td>(-8.85)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.89</td><td>(-18.89)</td><td>-18.30 k</td><td>-38.53</td><td>(-18.53)</td><td>18.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.69	(0.78)	50.00	33.66	(0.81)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.90	(-8.38)	-12.30 k	-42.00	(-8.85)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.89	(-18.89)	-18.30 k	-38.53	(-18.53)	18.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-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 38.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 34.00 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.76</td><td>(-1.71)</td><td>0.0</td><td>32.76</td><td>(-1.71)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.53</td><td>(-1.58)</td><td>-12.50 k</td><td>-38.05</td><td>(-1.08)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.48</td><td>(-18.48)</td><td>-15.30 k</td><td>-38.90</td><td>(-18.90)</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> File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.76	(-1.71)	0.0	32.76	(-1.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.53	(-1.58)	-12.50 k	-38.05	(-1.08)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.48	(-18.48)	-15.30 k	-38.90	(-18.90)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-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 38.0 dBm  Center 480 MHz Span 120 kHz Total Power Ref 33.10 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.85</td><td>(-1.47)</td><td>-50.00</td><td>32.83</td><td>(-1.49)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.00</td><td>(-4.98)</td><td>-12.35 k</td><td>-41.27</td><td>(-5.62)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.15</td><td>(-20.15)</td><td>-14.25 k</td><td>-40.25</td><td>(-20.25)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D state> recalled STATUS Frequency Center Freq 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	32.85	(-1.47)	-50.00	32.83	(-1.49)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.00	(-4.98)	-12.35 k	-41.27	(-5.62)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.15	(-20.15)	-14.25 k	-40.25	(-20.25)	14.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

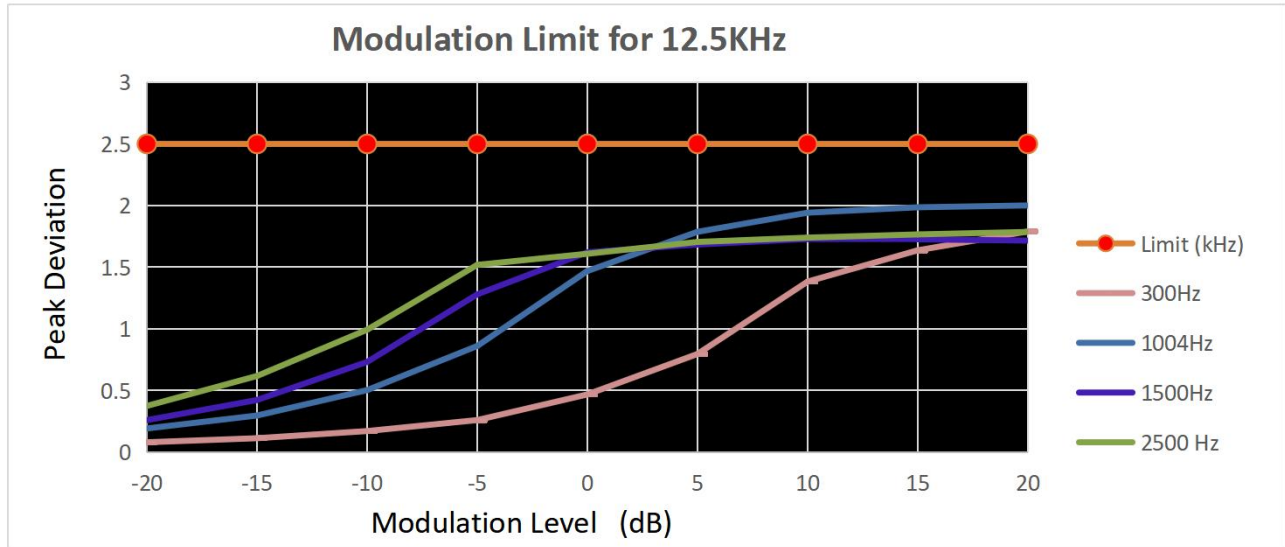
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Ref Offset 22 dB Ref 38.0 dBm  Center 480 MHz Span 120 kHz Total Power Ref 33.18 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.99</td><td>(-2.34)</td><td>0.0</td><td>31.99</td><td>(-2.34)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.91</td><td>(-1.80)</td><td>-12.50 k</td><td>-40.05</td><td>(-3.30)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.53</td><td>(-17.53)</td><td>-12.55 k</td><td>-37.94</td><td>(-17.94)</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> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz 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	31.99	(-2.34)	0.0	31.99	(-2.34)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.91	(-1.80)	-12.50 k	-40.05	(-3.30)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.53	(-17.53)	-12.55 k	-37.94	(-17.94)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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Appendix 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	0.080	0.192	0.260	0.375	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.113	0.297	0.423	0.618	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.171	0.503	0.732	0.993	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.260	0.861	1.280	1.519	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.468	1.469	1.621	1.609	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.796	1.787	1.684	1.705	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.383	1.942	1.729	1.740	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.637	1.986	1.726	1.766	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.790	2.001	1.716	1.786	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

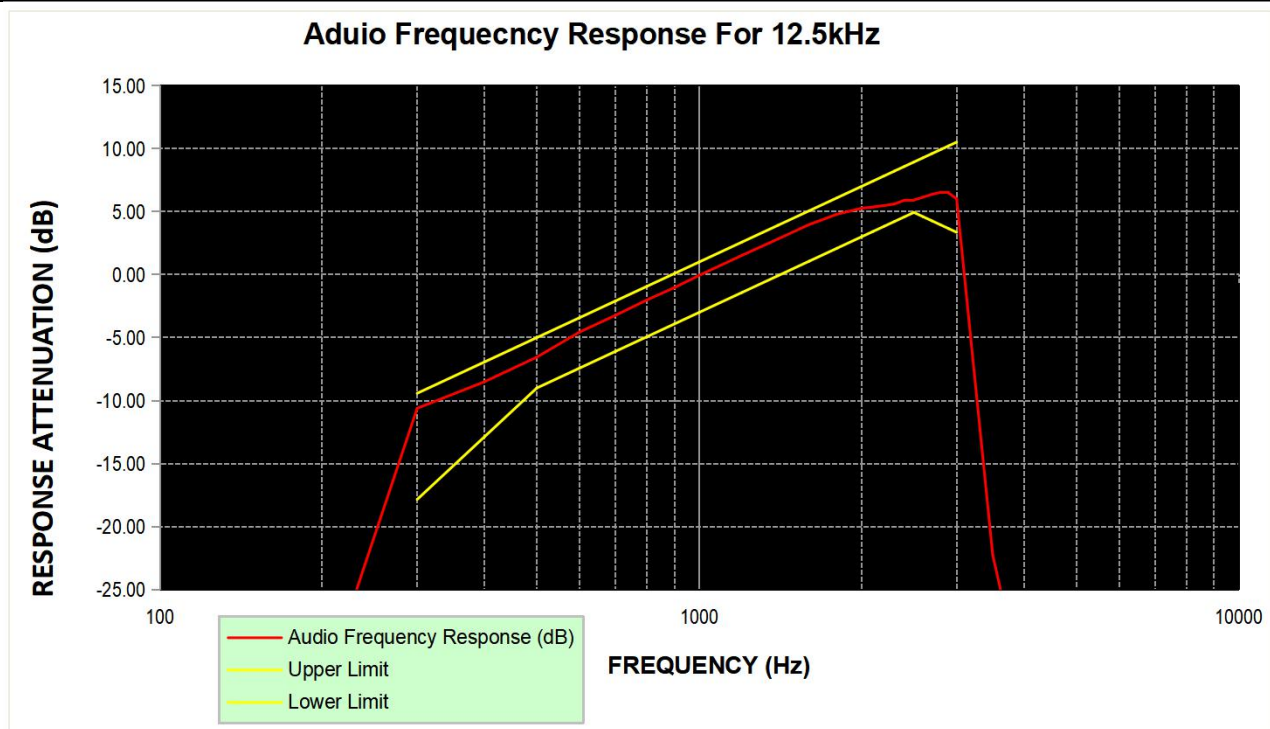


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-33.21			PASS
TX-ANH	FM	CH _{M2}	200	-33.16			PASS
TX-ANH	FM	CH _{M2}	300	-10.61	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.50	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.55	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.56	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.23	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.01	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.03	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.06	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.52	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.83	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.98	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.79	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.26	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.36	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.48	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.60	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.90	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.91	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.14	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	6.37	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	6.52	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.47	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.02	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-22.25			PASS
TX-ANH	FM	CH _{M2}	4000	-33.32			PASS
TX-ANH	FM	CH _{M2}	4500	-33.15			PASS
TX-ANH	FM	CH _{M2}	5000	-32.89			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	-0.201	-0.231	-0.219	-0.250	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.209	-0.216	-0.224	-0.233	-0.256	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.200	-0.211	-0.207	-0.235	-0.249	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.197	-0.215	-0.223	-0.244	-0.249	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.203	-0.229	-0.216	-0.240	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.195	-0.211	-0.204	-0.229	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.201	-0.214	-0.224	-0.240	-0.249	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.197	-0.218	-0.210	-0.251	-0.239	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.200	-0.231	-0.216	-0.244	-0.249	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.212	-0.208	-0.202	-0.227	-0.252	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.217	-0.206	-0.200	-0.227	-0.259	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.216	-0.220	-0.206	-0.226	-0.259	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.219	-0.214	-0.206	-0.228	-0.251	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.213	-0.205	-0.200	-0.222	-0.253	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.204	-0.205	-0.199	-0.218	-0.237	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.223	-0.220	-0.205	-0.225	-0.260	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.224	-0.214	-0.210	-0.231	-0.242	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.215	-0.223	-0.208	-0.222	-0.246	±5.0	PASS
TX-ANH	FM	V _N	-30	0.008	0.002	-0.003	0.009	0.011	±5.0	PASS
TX-ANH	FM	V _N	-20	0.008	0.002	-0.003	0.010	0.011	±5.0	PASS
TX-ANH	FM	V _N	-10	0.009	0.002	-0.003	0.010	0.010	±5.0	PASS
TX-ANH	FM	V _N	0	0.009	0.002	-0.003	0.010	0.011	±5.0	PASS
TX-ANH	FM	V _N	10	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _N	20	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _N	30	0.008	0.002	-0.003	0.009	0.011	±5.0	PASS
TX-ANH	FM	V _N	40	0.009	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _N	50	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANL	FM	V _N	-30	0.002	0.003	0.017	0.013	0.011	±5.0	PASS
TX-ANL	FM	V _N	-20	0.002	0.003	0.019	0.013	0.011	±5.0	PASS
TX-ANL	FM	V _N	-10	0.002	0.003	0.019	0.013	0.011	±5.0	PASS
TX-ANL	FM	V _N	0	0.002	0.003	0.018	0.013	0.012	±5.0	PASS
TX-ANL	FM	V _N	10	0.002	0.003	0.018	0.013	0.012	±5.0	PASS
TX-ANL	FM	V _N	20	0.002	0.003	0.017	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _N	30	0.002	0.003	0.019	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _N	40	0.002	0.003	0.019	0.012	0.012	±5.0	PASS
TX-ANL	FM	V _N	50	0.002	0.003	0.018	0.013	0.011	±5.0	PASS

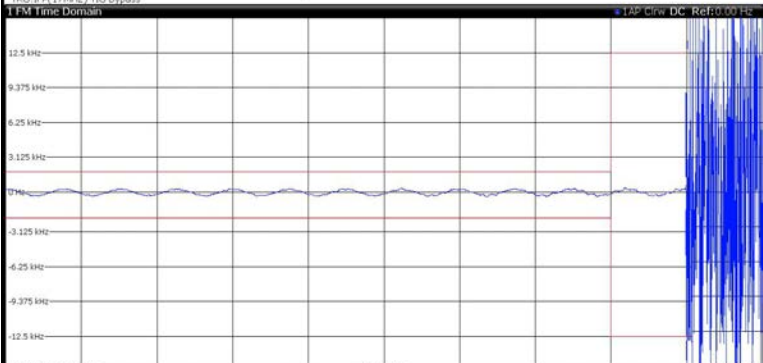
Appendix G:Frequency Stability Test & Voltage

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	-0.195	-0.211	-0.204	-0.229	-0.234	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.197	-0.211	-0.207	-0.231	-0.236	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.203	-0.214	-0.214	-0.238	-0.242	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.204	-0.205	-0.199	-0.218	-0.237	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.207	-0.207	-0.201	-0.222	-0.238	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.209	-0.210	-0.201	-0.229	-0.244	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.008	0.002	-0.003	0.009	0.011	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.002	0.003	0.017	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.002	0.003	0.017	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.002	0.003	0.018	0.012	0.011	±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 IFBY (17MHz) VIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.39 dBm</td><td colspan="2">Carrier Offset -91.37 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>23.461 kHz</td><td>-26.881 kHz</td><td>25.171 kHz</td><td>2.9038 kHz</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:40:32	Carrier Power 37.39 dBm		Carrier Offset -91.37 Hz		+Peak	-Peak	+Peak/2	RMS	23.461 kHz	-26.881 kHz	25.171 kHz	2.9038 kHz
Carrier Power 37.39 dBm		Carrier Offset -91.37 Hz													
+Peak	-Peak	+Peak/2	RMS												
23.461 kHz	-26.881 kHz	25.171 kHz	2.9038 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 IFBY (17MHz) VIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.42 dBm</td><td colspan="2">Carrier Offset -59.98 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>24.767 kHz</td><td>-30.584 kHz</td><td>27.676 kHz</td><td>3.0217 kHz</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:38:19	Carrier Power 37.42 dBm		Carrier Offset -59.98 Hz		+Peak	-Peak	+Peak/2	RMS	24.767 kHz	-30.584 kHz	27.676 kHz	3.0217 kHz
Carrier Power 37.42 dBm		Carrier Offset -59.98 Hz													
+Peak	-Peak	+Peak/2	RMS												
24.767 kHz	-30.584 kHz	27.676 kHz	3.0217 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 IFBY (17MHz) VIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.39 dBm</td><td colspan="2">Carrier Offset -91.71 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>20.36 kHz</td><td>-23.081 kHz</td><td>21.72 kHz</td><td>2.9211 kHz</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 20.06.2022 16:39:58	Carrier Power 37.39 dBm		Carrier Offset -91.71 Hz		+Peak	-Peak	+Peak/2	RMS	20.36 kHz	-23.081 kHz	21.72 kHz	2.9211 kHz
Carrier Power 37.39 dBm		Carrier Offset -91.71 Hz													
+Peak	-Peak	+Peak/2	RMS												
20.36 kHz	-23.081 kHz	21.72 kHz	2.9211 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 TRIG JFS(17MHz) VIO Bypass 1 FM Time Domain  CF 406.1125 MHz 1001 pts 10.0 ms 4 Result Summary <table><tr><td></td><td>Carrier Power 37.42 dBm</td><td>Carrier Offset -56.78 Hz</td><td></td><td></td><td></td><td></td></tr><tr><td>FM</td><td>+Peak 22.187 kHz</td><td>-Peak -30.604 kHz</td><td>+Peak/2 26.396 kHz</td><td>RMS 3.0704 kHz</td><td>Mod. Freq. ---</td><td>SINAD ---</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>THD ---</td><td></td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 28.06.2022 16:36:19 Date: 20 JUN 2022 16:36:19		Carrier Power 37.42 dBm	Carrier Offset -56.78 Hz					FM	+Peak 22.187 kHz	-Peak -30.604 kHz	+Peak/2 26.396 kHz	RMS 3.0704 kHz	Mod. Freq. ---	SINAD ---						THD ---	
	Carrier Power 37.42 dBm	Carrier Offset -56.78 Hz																						
FM	+Peak 22.187 kHz	-Peak -30.604 kHz	+Peak/2 26.396 kHz	RMS 3.0704 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	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -40.40 dBm 800.020000 MHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>28.00785 kHz</td><td>-84.67 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>19.01422 MHz</td><td>-65.46 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>-17.28 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>2.51914 GHz</td><td>-45.81 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUN 2022 15:48:34	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	28.00785 kHz	-84.67 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	19.01422 MHz	-65.46 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-17.28 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	2.51914 GHz	-45.81 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	28.00785 kHz	-84.67 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	19.01422 MHz	-65.46 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-17.28 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	2.51914 GHz	-45.81 dBm	-200.00 dB																												
TX-DNH	4FSK	CHM1	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -34.20 dBm 12.546000 MHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>37.05920 kHz</td><td>-83.41 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>12.66521 MHz</td><td>-34.11 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>-24.69 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>4.87169 GHz</td><td>-39.65 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUN 2022 16:01:33	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	37.05920 kHz	-83.41 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	12.66521 MHz	-34.11 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.69 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.87169 GHz	-39.65 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	37.05920 kHz	-83.41 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	12.66521 MHz	-34.11 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.69 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	4.87169 GHz	-39.65 dBm	-200.00 dB																												
TX-DNH	4FSK	CHM2	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -30.67 dBm 12.285000 MHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.90514 kHz</td><td>-83.14 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>12.28472 MHz</td><td>-30.67 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>-24.52 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>4.87332 GHz</td><td>-40.53 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUN 2022 16:02:29	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	9.90514 kHz	-83.14 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	12.28472 MHz	-30.67 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-24.52 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.87332 GHz	-40.53 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	-83.14 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	12.28472 MHz	-30.67 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-24.52 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	4.87332 GHz	-40.53 dBm	-200.00 dB																												

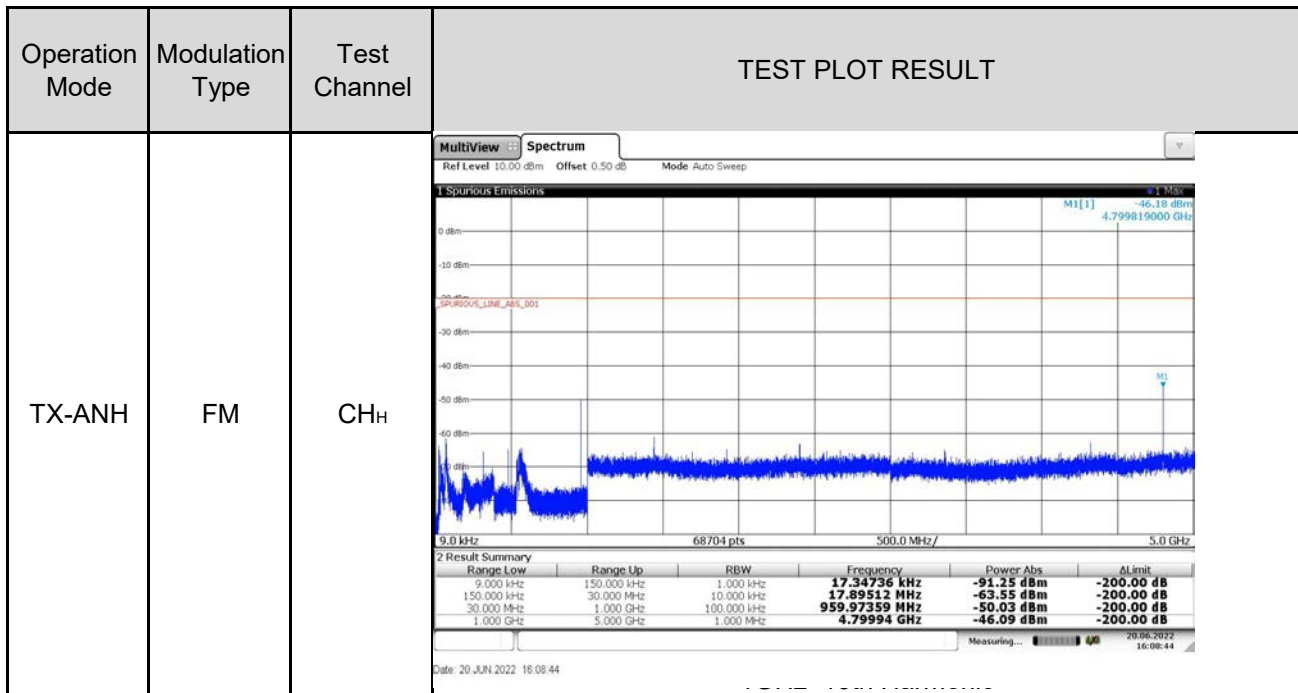
Appendix I:Spurious Emission On Antenna Port

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 M1[1] -37.48 dBm 101.096000 MHz 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm SPURIOUS_LINE_ABS_001 -37.48 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 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>94.18331 kHz</td><td>-87.59 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>18.20101 MHz</td><td>-42.53 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>101.09575 MHz</td><td>-37.48 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>2.40414 GHz</td><td>-49.06 dBm</td><td>-200.00 dB</td></tr></tbody></table> Measuring... 20.06.2022 16:04:09 Date: 20 JUN 2022 16:04:09	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	94.18331 kHz	-87.59 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	18.20101 MHz	-42.53 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	101.09575 MHz	-37.48 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	2.40414 GHz	-49.06 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	94.18331 kHz	-87.59 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	18.20101 MHz	-42.53 dBm	-200.00 dB																												
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1.000 GHz	5.000 GHz	1.000 MHz	2.40414 GHz	-49.06 dBm	-200.00 dB																												
TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -44.45 dBm 4.799944000 GHz 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm SPURIOUS_LINE_ABS_001 -44.45 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 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>9.10057 kHz</td><td>-82.38 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>24.40079 MHz</td><td>-64.10 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>959.94328 MHz</td><td>-45.87 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>4.79994 GHz</td><td>-44.45 dBm</td><td>-200.00 dB</td></tr></tbody></table> Measuring... 20.06.2022 16:05:22 Date: 20 JUN 2022 16:05:21	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-82.38 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	24.40079 MHz	-64.10 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	959.94328 MHz	-45.87 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.79994 GHz	-44.45 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-82.38 dBm	-200.00 dB																												
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TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -40.11 dBm 800.020000 MHz 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm SPURIOUS_LINE_ABS_001 -40.11 dBm 9.0 kHz 68704 pts 500.0 MHz/ 5.0 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>24.78959 kHz</td><td>-90.54 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>19.15597 MHz</td><td>-78.02 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>-17.03 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>-51.64 dBm</td><td>-200.00 dB</td></tr></tbody></table> Measuring... 20.06.2022 16:06:20 Date: 20 JUN 2022 16:06:20	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-90.54 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	19.15597 MHz	-78.02 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-17.03 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.20006 GHz	-51.64 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	-90.54 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	19.15597 MHz	-78.02 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-17.03 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.20006 GHz	-51.64 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] -39.96 dBm 811.962000 MHz SPURIOUS_LINE_ABS_001 9.0 kHz 68704 pts 500.0 MHz / 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>10.91084 kHz</td><td>-90.30 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>28.10127 MHz</td><td>-78.62 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>-24.47 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>4.87182 GHz</td><td>-39.67 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUN 2022 16:07:05	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	10.91084 kHz	-90.30 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	28.10127 MHz	-78.62 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.47 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.87182 GHz	-39.67 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
9.000 kHz	150.000 kHz	1.000 kHz	10.91084 kHz	-90.30 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	28.10127 MHz	-78.62 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.47 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	4.87182 GHz	-39.67 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] -38.93 dBm 812.205000 MHz SPURIOUS_LINE_ABS_001 9.0 kHz 68704 pts 500.0 MHz / 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>14.53138 kHz</td><td>-89.45 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>27.10154 MHz</td><td>-77.89 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>-24.68 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>4.87319 GHz</td><td>-39.56 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUN 2022 16:07:36	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	14.53138 kHz	-89.45 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	27.10154 MHz	-77.89 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-24.68 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.87319 GHz	-39.56 dBm	-200.00 dB
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TX-ANH	FM	CH _{M3}	MultiViewSpectrum Ref Level 10.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -47.93 dBm 876.011000 MHz SPURIOUS_LINE_ABS_001 9.0 kHz 68704 pts 500.0 MHz / 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.10057 kHz</td><td>-90.85 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>26.59422 MHz</td><td>-72.11 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>438.00866 MHz</td><td>-41.82 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>1.31393 GHz</td><td>-50.25 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUN 2022 16:08:10	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-90.85 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	26.59422 MHz	-72.11 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-41.82 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.31393 GHz	-50.25 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																												
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Appendix I:Spurious Emission On Antenna Port



----End of Report----