

Project No.	SHT2406041701W		
Test sample No.	YPHT23020457002	Model No.	DH460VHF
Start test date	2023/5/18	Finish date	2023/5/25
Temperature	24.4 °C	Humidity	52%
Test Engineer	<i>Chunshui Gu</i>	Auditor	<i>Xiaodong Zhu</i>

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

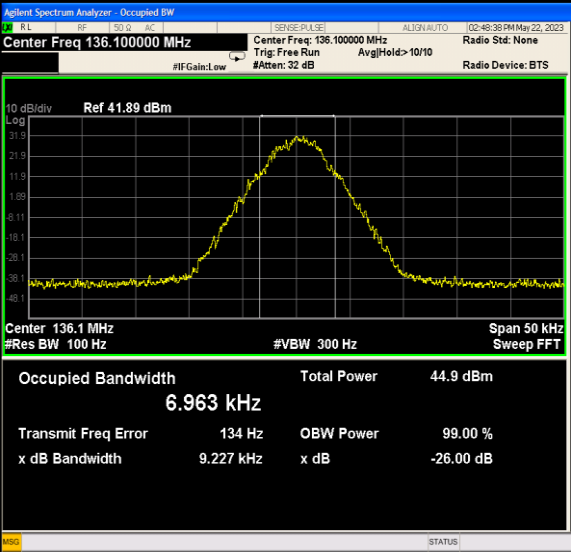
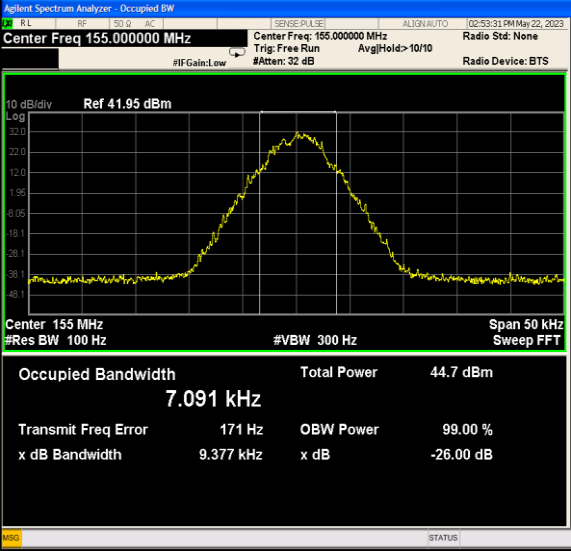
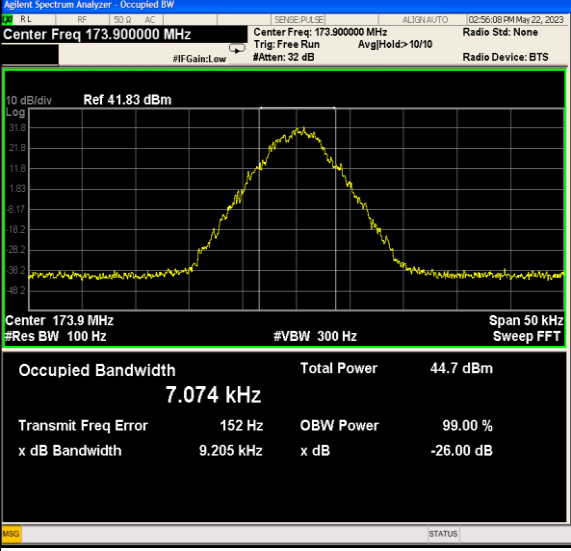
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage(%))	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.4	4.37	5.00	-12.6	±20	PASS
TX-DNH	4FSK	CH _M	36.4	4.37	5.00	-12.6	±20	PASS
TX-DNH	4FSK	CH _H	36.3	4.27	5.00	-14.6	±20	PASS
TX-DNL	4FSK	CH _L	29.3	0.85	1.00	-15.0	±20	PASS
TX-DNL	4FSK	CH _M	29.2	0.83	1.00	-17.0	±20	PASS
TX-DNL	4FSK	CH _H	29.2	0.83	1.00	-17.0	±20	PASS
TX-ANH	FM	CH _L	37.1	5.11	5.00	2.2	±20	PASS
TX-ANH	FM	CH _M	37.3	5.40	5.00	8.0	±20	PASS
TX-ANH	FM	CH _H	36.8	4.81	5.00	-3.8	±20	PASS
TX-ANL	FM	CH _L	29.8	0.96	1.00	-4.0	±20	PASS
TX-ANL	FM	CH _M	29.8	0.96	1.00	-4.0	±20	PASS
TX-ANL	FM	CH _H	29.8	0.94	1.00	-6.0	±20	PASS

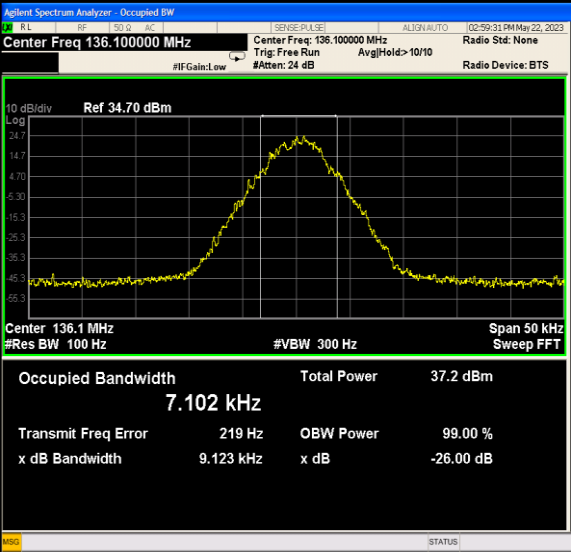
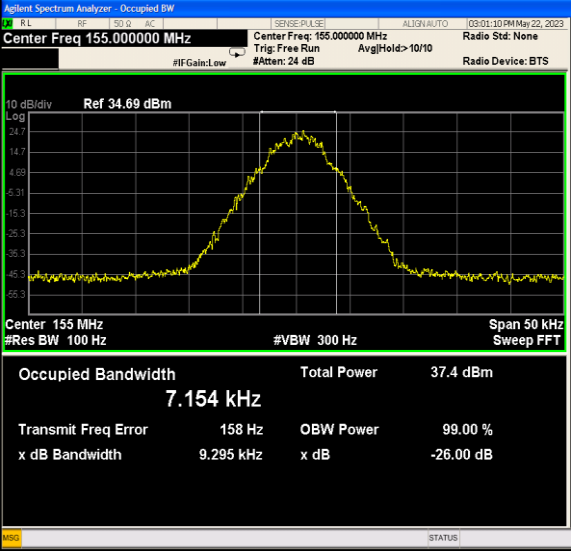
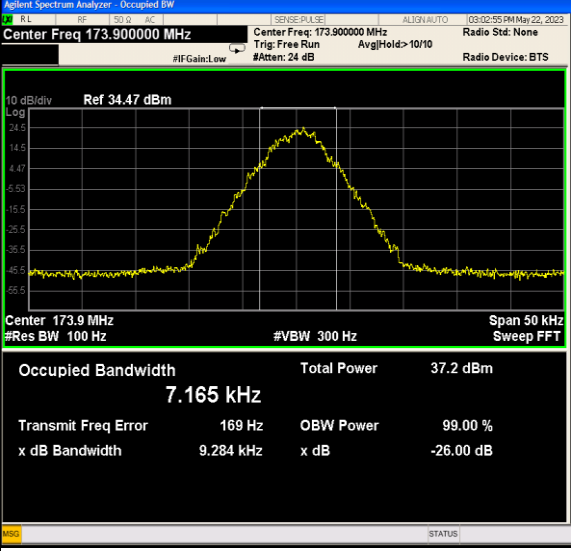
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	6.963	9.227	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.091	9.377	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.074	9.205	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.102	9.123	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.154	9.295	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.165	9.284	≤11.25	PASS
TX-ANH	FM	CH _L	9.955	10.150	≤11.25	PASS
TX-ANH	FM	CH _M	9.963	10.160	≤11.25	PASS
TX-ANH	FM	CH _H	9.956	10.160	≤11.25	PASS
TX-ANL	FM	CH _L	9.960	10.160	≤11.25	PASS
TX-ANL	FM	CH _M	9.967	10.160	≤11.25	PASS
TX-ANL	FM	CH _H	9.954	10.160	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 136.100000 MHz Span 50 kHz Occupied Bandwidth 6.963 kHz Total Power 44.9 dBm Transmit Freq Error 134 Hz OBW Power 99.00 % x dB Bandwidth 9.227 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 155.000000 MHz Span 50 kHz Occupied Bandwidth 7.091 kHz Total Power 44.7 dBm Transmit Freq Error 171 Hz OBW Power 99.00 % x dB Bandwidth 9.377 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 173.900000 MHz Span 50 kHz Occupied Bandwidth 7.074 kHz Total Power 44.7 dBm Transmit Freq Error 152 Hz OBW Power 99.00 % x dB Bandwidth 9.205 kHz x dB -26.00 dB

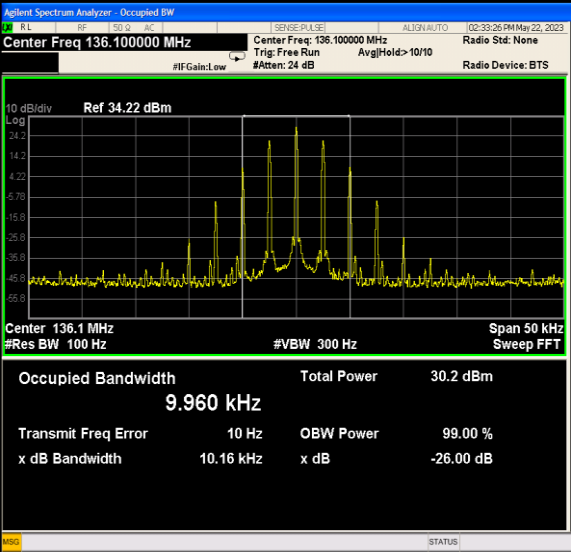
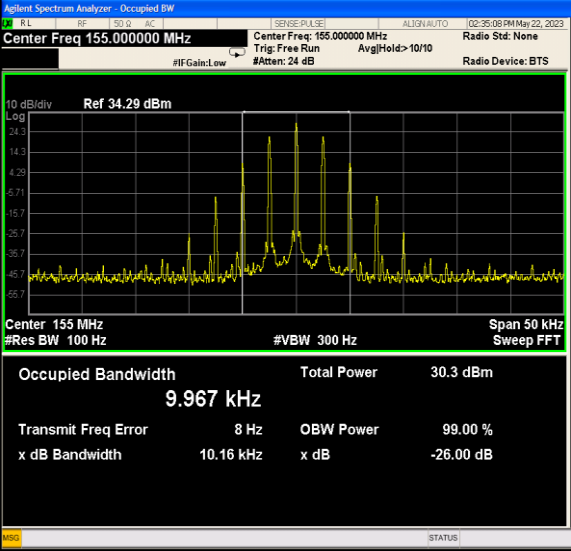
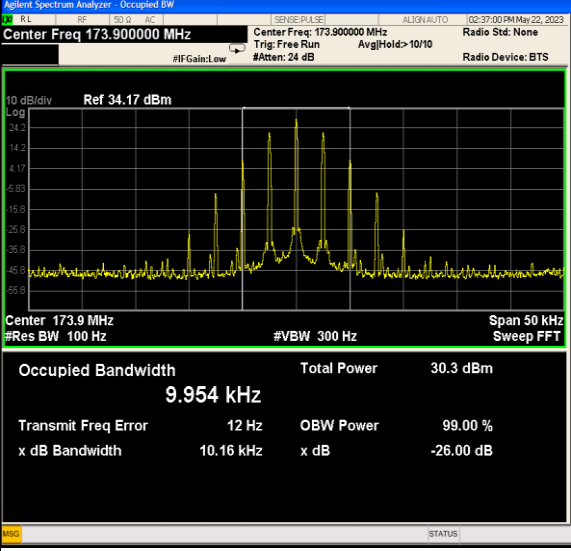
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 136.100000 MHz Span 50 kHz Occupied Bandwidth 7.102 kHz Total Power 37.2 dBm Transmit Freq Error 219 Hz OBW Power 99.00 % x dB Bandwidth 9.123 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 155.000000 MHz Span 50 kHz Occupied Bandwidth 7.154 kHz Total Power 37.4 dBm Transmit Freq Error 158 Hz OBW Power 99.00 % x dB Bandwidth 9.295 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 173.900000 MHz Span 50 kHz Occupied Bandwidth 7.165 kHz Total Power 37.2 dBm Transmit Freq Error 169 Hz OBW Power 99.00 % x dB Bandwidth 9.284 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 136.100000 MHz Ref 41.90 dBm Occupied Bandwidth 9.955 kHz Total Power 38.0 dBm Transmit Freq Error 17 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 155.000000 MHz Ref 41.85 dBm Occupied Bandwidth 9.963 kHz Total Power 38.0 dBm Transmit Freq Error 15 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 173.900000 MHz Ref 41.56 dBm Occupied Bandwidth 9.956 kHz Total Power 37.7 dBm Transmit Freq Error 2 Hz OBW Power 99.00 % x dB Bandwidth 10.16 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 136.100000 MHz Ref 34.22 dBm Occupied Bandwidth 9.960 kHz Total Power 30.2 dBm Transmit Freq Error 10 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANL	FM	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 155.000000 MHz Ref 34.29 dBm Occupied Bandwidth 9.967 kHz Total Power 30.3 dBm Transmit Freq Error 8 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 173.900000 MHz Ref 34.17 dBm Occupied Bandwidth 9.954 kHz Total Power 30.3 dBm Transmit Freq Error 12 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:49:47 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 -7.00 -17.0 -27.0 -37.0 -47.0 Center 136.1 MHz Span 120 kHz Total Power Ref 37.90 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.77</td><td>(-1.54)</td><td>0.0</td><td>37.77</td><td>(-1.54)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.55</td><td>(-4.42)</td><td>-12.50 k</td><td>-35.95</td><td>(-3.82)</td><td>12.50 k</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.64</td><td>(-14.64)</td><td>-12.90 k</td><td>-34.27</td><td>(-14.27)</td><td>12.95 k</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><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 136.100000 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	37.77	(-1.54)	0.0	37.77	(-1.54)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.55	(-4.42)	-12.50 k	-35.95	(-3.82)	12.50 k	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.64	(-14.64)	-12.90 k	-34.27	(-14.27)	12.95 k	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	—	(—)	—	—	(—)	—	—
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TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:52:20 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 7.00 -7.00 -17.0 -27.0 -37.0 -47.0 Center 136.1 MHz Span 120 kHz Total Power Ref 40.88 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</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.24</td><td>(-11.07)</td><td>-450.0</td><td>28.61</td><td>(-10.70)</td><td>800.0</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.43</td><td>(-3.67)</td><td>-12.45 k</td><td>-36.72</td><td>(-4.95)</td><td>12.45 k</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.54</td><td>(-13.54)</td><td>-14.40 k</td><td>-34.21</td><td>(-14.21)</td><td>13.65 k</td><td>13.65 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><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></tbody></table> MSO Alignment Completed STATUS Frequency Center Freq 136.100000 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	28.24	(-11.07)	-450.0	28.61	(-10.70)	800.0	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.43	(-3.67)	-12.45 k	-36.72	(-4.95)	12.45 k	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.54	(-13.54)	-14.40 k	-34.21	(-14.21)	13.65 k	13.65 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-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 09:32:40 AM May 25, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 6.00 16.0 26.0 36.0 46.0 Center 155 MHz Span 120 kHz Total Power Ref 38.85 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>38.59</td><td>(-1.57)</td><td>0.0</td><td>38.62</td><td>(-1.54)</td><td>50.00</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.57</td><td>(-8.75)</td><td>-12.30 k</td><td>-39.00</td><td>(-9.18)</td><td>12.30 k</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.44</td><td>(-16.44)</td><td>-15.95 k</td><td>-36.22</td><td>(-16.22)</td><td>15.15 k</td><td>15.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 155.000000 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	38.59	(-1.57)	0.0	38.62	(-1.54)	50.00	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.57	(-8.75)	-12.30 k	-39.00	(-9.18)	12.30 k	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.44	(-16.44)	-15.95 k	-36.22	(-16.22)	15.15 k	15.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 09:33:14 AM May 25, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 -6.00 -16.0 -26.0 -36.0 -46.0 Center 155 MHz Span 120 kHz Total Power Ref 41.15 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>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>27.99</td><td>(-12.17)</td><td>-1.350 k</td><td>27.27</td><td>(-12.89)</td><td>1.650 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.11</td><td>(-4.83)</td><td>-12.50 k</td><td>-38.49</td><td>(-7.58)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.32</td><td>(-14.32)</td><td>-13.00 k</td><td>-34.30</td><td>(-14.30)</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> MSO File <Temp.png> saved STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.99	(-12.17)	-1.350 k	27.27	(-12.89)	1.650 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.11	(-4.83)	-12.50 k	-38.49	(-7.58)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.32	(-14.32)	-13.00 k	-34.30	(-14.30)	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)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:57:10 PM May 25, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None PASS IF Gain: low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 -7.00 -17.0 -27.0 -37.0 -47.0 Center 173.9 MHz Span 120 kHz Total Power Ref 37.71 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.55</td><td>(-1.67)</td><td>0.0</td><td>37.55</td><td>(-1.67)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.02</td><td>(-9.08)</td><td>-12.05 k</td><td>-36.59</td><td>(-7.65)</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.40</td><td>(-17.40)</td><td>-17.00 k</td><td>-36.67</td><td>(-16.67)</td><td>17.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.55	(-1.67)	0.0	37.55	(-1.67)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.02	(-9.08)	-12.05 k	-36.59	(-7.65)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.40	(-17.40)	-17.00 k	-36.67	(-16.67)	17.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:58:00 PM May 25, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None PASS IF Gain: low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.00 -7.00 -17.0 -27.0 -37.0 -47.0 Center 173.9 MHz Span 120 kHz Total Power Ref 40.82 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.57</td><td>(-12.66)</td><td>-1.300 k</td><td>29.07</td><td>(-10.16)</td><td>950.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.31</td><td>(-5.19)</td><td>-12.35 k</td><td>-33.30</td><td>(-5.46)</td><td>11.90 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.46</td><td>(-15.46)</td><td>-14.00 k</td><td>-34.83</td><td>(-14.83)</td><td>15.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.57	(-12.66)	-1.300 k	29.07	(-10.16)	950.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.31	(-5.19)	-12.35 k	-33.30	(-5.46)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.46	(-15.46)	-14.00 k	-34.83	(-14.83)	15.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 03:00:06 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 136.1 MHz Span 120 kHz Total Power Ref 30.64 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.42</td><td>(-1.59)</td><td>0.0</td><td>0.0</td><td>30.46</td><td>(-1.55)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.78</td><td>(-2.99)</td><td>-12.00 k</td><td>-12.00 k</td><td>-42.42</td><td>(-5.90)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.59</td><td>(-20.59)</td><td>-13.95 k</td><td>-13.95 k</td><td>-41.72</td><td>(-21.72)</td><td>26.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 03:00:42 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 136.1 MHz Span 120 kHz Total Power Ref 34.18 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.68</td><td>(-10.33)</td><td>-200.0</td><td>21.69</td><td>(-10.32)</td><td>850.0</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.74</td><td>(-3.31)</td><td>-12.50 k</td><td>-12.50 k</td><td>-42.69</td><td>(-4.72)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.65</td><td>(-21.65)</td><td>-13.00 k</td><td>-13.00 k</td><td>-40.50</td><td>(-20.50)</td><td>14.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_M</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 03:01:48 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 155 MHz Span 120 kHz Total Power Ref 30.67 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.44</td><td>(-1.58)</td><td>0.0</td><td>30.44</td><td>(-1.58)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.25</td><td>(-2.47)</td><td>-12.00 k</td><td>-12.00 k</td><td>-43.54</td><td>(-4.12)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.15</td><td>(-23.15)</td><td>-13.05 k</td><td>-13.05 k</td><td>-41.20</td><td>(-21.20)</td><td>28.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr></td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.42	(-1.59)	0.0	0.0	30.46	(-1.55)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.78	(-2.99)	-12.00 k	-12.00 k	-42.42	(-5.90)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.59	(-20.59)	-13.95 k	-13.95 k	-41.72	(-21.72)	26.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	—	(—)	—	TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 03:00:42 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 136.1 MHz Span 120 kHz Total Power Ref 34.18 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.68</td><td>(-10.33)</td><td>-200.0</td><td>21.69</td><td>(-10.32)</td><td>850.0</td><td>850.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.74</td><td>(-3.31)</td><td>-12.50 k</td><td>-12.50 k</td><td>-42.69</td><td>(-4.72)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.65</td><td>(-21.65)</td><td>-13.00 k</td><td>-13.00 k</td><td>-40.50</td><td>(-20.50)</td><td>14.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_M</td><td> Agilent Spectrum Analyzer - 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TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 03:01:48 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 155 MHz Span 120 kHz Total Power Ref 30.67 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.44</td><td>(-1.58)</td><td>0.0</td><td>30.44</td><td>(-1.58)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.25</td><td>(-2.47)</td><td>-12.00 k</td><td>-12.00 k</td><td>-43.54</td><td>(-4.12)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.15</td><td>(-23.15)</td><td>-13.05 k</td><td>-13.05 k</td><td>-41.20</td><td>(-21.20)</td><td>28.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.44	(-1.58)	0.0	30.44	(-1.58)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.25	(-2.47)	-12.00 k	-12.00 k	-43.54	(-4.12)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.15	(-23.15)	-13.05 k	-13.05 k	-41.20	(-21.20)	28.05 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 03:02:21 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 8.00 0.00 -8.00 -16.0 -24.0 -32.0 -40.0 -48.0 -56.0 Center 155 MHz Span 120 kHz Total Power Ref 33.73 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>23.51</td><td>(-8.51)</td><td>0.0</td><td>23.51</td><td>(-8.51)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.51</td><td>(-4.91)</td><td>-12.25 k</td><td>-40.36</td><td>(-4.94)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.61</td><td>(-19.61)</td><td>-12.50 k</td><td>-42.25</td><td>(-22.25)</td><td>14.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.51	(-8.51)	0.0	23.51	(-8.51)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.51	(-4.91)	-12.25 k	-40.36	(-4.94)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.61	(-19.61)	-12.50 k	-42.25	(-22.25)	14.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 03:03:28 PM May 22, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None PASS IF Gain: low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 8.00 0.00 -8.00 -16.0 -24.0 -32.0 -40.0 -48.0 -56.0 Center 173.9 MHz Span 120 kHz Total Power Ref 30.55 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.28</td><td>(-1.63)</td><td>0.0</td><td>30.28</td><td>(-1.63)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.13</td><td>(-3.23)</td><td>-12.00 k</td><td>-41.27</td><td>(-5.37)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.27</td><td>(-23.27)</td><td>-13.55 k</td><td>-42.98</td><td>(-22.98)</td><td>13.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.28	(-1.63)	0.0	30.28	(-1.63)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.13	(-3.23)	-12.00 k	-41.27	(-5.37)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.27	(-23.27)	-13.55 k	-42.98	(-22.98)	13.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 03:04:38 PM May 22, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None PASS IF Gain: low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 8.00 0.00 -8.00 -16.0 -24.0 -32.0 -40.0 -48.0 -56.0 Center 173.9 MHz Span 120 kHz Total Power Ref 34.06 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.10</td><td>(-9.80)</td><td>0.0</td><td>22.10</td><td>(-9.80)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.58</td><td>(6.14)</td><td>-12.35 k</td><td>-42.23</td><td>(-3.43)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.14</td><td>(-21.14)</td><td>-12.50 k</td><td>-39.78</td><td>(-19.78)</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> MSO File <Temp.png> saved STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.10	(-9.80)	0.0	22.10	(-9.80)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.58	(6.14)	-12.35 k	-42.23	(-3.43)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.14	(-21.14)	-12.50 k	-39.78	(-19.78)	13.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																																										
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:23:44 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm Center 136.1 MHz Span 120 kHz Total Power Ref 38.11 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.88</td><td>(-1.47)</td><td>0.0</td><td>37.88</td><td>(-1.47)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.77</td><td>(-5.58)</td><td>-12.10 k</td><td>-34.31</td><td>(-4.76)</td><td>12.15 k</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.45</td><td>(-14.45)</td><td>-12.80 k</td><td>-34.36</td><td>(-14.36)</td><td>12.85 k</td><td>12.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:24:05 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm Center 136.1 MHz Span 120 kHz Total Power Ref 37.89 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 →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.25</td><td>(-3.09)</td><td>0.0</td><td>36.25</td><td>(-3.09)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-29.72</td><td>(-3.67)</td><td>-12.50 k</td><td>-28.21</td><td>(-3.60)</td><td>12.50 k</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.97</td><td>(-9.97)</td><td>-12.50 k</td><td>-29.16</td><td>(-9.16)</td><td>12.50 k</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><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_M</td><td> Agilent Spectrum Analyzer - 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Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:26:00 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 38.01 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.79</td><td>(-1.52)</td><td>0.0</td><td>37.83</td><td>(-1.48)</td><td>50.00</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.09</td><td>(-4.69)</td><td>-12.40 k</td><td>-35.85</td><td>(-4.45)</td><td>12.40 k</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.53</td><td>(-16.53)</td><td>-19.45 k</td><td>-36.44</td><td>(-16.44)</td><td>19.50 k</td><td>19.50 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><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.79	(-1.52)	0.0	37.83	(-1.48)	50.00	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-36.09	(-4.69)	-12.40 k	-35.85	(-4.45)	12.40 k	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.53	(-16.53)	-19.45 k	-36.44	(-16.44)	19.50 k	19.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—																																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:26:22 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB PASS IF Gain: low Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 37.79 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.14</td><td>(-3.17)</td><td>0.0</td><td>36.14</td><td>(-3.17)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.41</td><td>(-1.28)</td><td>-12.50 k</td><td>-29.21</td><td>(-1.20)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.21</td><td>(-13.21)</td><td>-12.50 k</td><td>-32.54</td><td>(-12.54)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.14	(-3.17)	0.0	36.14	(-3.17)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.41	(-1.28)	-12.50 k	-29.21	(-1.20)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.21	(-13.21)	-12.50 k	-32.54	(-12.54)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:31:27 PM May 22, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB PASS IF Gain: low Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm Center 173.9 MHz Span 120 kHz Total Power Ref 37.55 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.38</td><td>(-1.62)</td><td>0.0</td><td>37.38</td><td>(-1.62)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.15</td><td>(-5.16)</td><td>-12.30 k</td><td>-35.82</td><td>(-4.47)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.98</td><td>(-15.98)</td><td>-14.50 k</td><td>-35.94</td><td>(-15.94)</td><td>14.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.38	(-1.62)	0.0	37.38	(-1.62)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.15	(-5.16)	-12.30 k	-35.82	(-4.47)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.98	(-15.98)	-14.50 k	-35.94	(-15.94)	14.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIGN: AUTO 02:31:48 PM May 22, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB PASS IF Gain: low Radio Device: BTS Ref Offset 21 dB Ref 43.0 dBm Center 173.9 MHz Span 120 kHz Total Power Ref 37.62 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.73</td><td>(-3.27)</td><td>0.0</td><td>35.73</td><td>(-3.27)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.53</td><td>(-3.09)</td><td>-12.50 k</td><td>-31.55</td><td>(-3.01)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.34</td><td>(-13.34)</td><td>-12.90 k</td><td>-32.34</td><td>(-12.34)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.73	(-3.27)	0.0	35.73	(-3.27)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.53	(-3.09)	-12.50 k	-31.55	(-3.01)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.34	(-13.34)	-12.90 k	-32.34	(-12.34)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	35.73	(-3.27)	0.0	35.73	(-3.27)	0.0																																																										
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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-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:34:08 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 8.00 0.00 -8.00 -16.0 -24.0 -32.0 -40.0 -48.0 -56.0 Center 136.1 MHz Span 120 kHz Total Power Ref 30.30 dBm @ 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.15</td><td>(-1.57)</td><td>0.0</td><td>30.15</td><td>(-1.57)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.66</td><td>(-9.48)</td><td>-11.60 k</td><td>-38.82</td><td>(-2.37)</td><td>12.05 k</td><td>12.05 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.90</td><td>(-21.90)</td><td>-15.25 k</td><td>-41.71</td><td>(-21.71)</td><td>14.00 k</td><td>14.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.15	(-1.57)	0.0	30.15	(-1.57)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.66	(-9.48)	-11.60 k	-38.82	(-2.37)	12.05 k	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.90	(-21.90)	-15.25 k	-41.71	(-21.71)	14.00 k	14.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)																																																																
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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:34:30 PM May 22, 2023 Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 8.00 0.00 -8.00 -16.0 -24.0 -32.0 -40.0 -48.0 -56.0 Center 136.1 MHz Span 120 kHz Total Power Ref 30.14 dBm @ 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.53</td><td>(-3.18)</td><td>0.0</td><td>28.53</td><td>(-3.18)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.40</td><td>(-4.95)</td><td>-12.50 k</td><td>-35.19</td><td>(-4.35)</td><td>12.50 k</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.63</td><td>(-16.63)</td><td>-12.50 k</td><td>-36.03</td><td>(-16.03)</td><td>12.50 k</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><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 136.100000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.53	(-3.18)	0.0	28.53	(-3.18)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.40	(-4.95)	-12.50 k	-35.19	(-4.35)	12.50 k	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.63	(-16.63)	-12.50 k	-36.03	(-16.03)	12.50 k	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)																																																																
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TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:35:42 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None PASS IF Gain: low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 8.00 0.00 -8.00 -16.0 -24.0 -32.0 -40.0 -48.0 -56.0 Center 155 MHz Span 120 kHz Total Power Ref 30.38 dBm @ 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.23</td><td>(-1.55)</td><td>0.0</td><td>30.23</td><td>(-1.55)</td><td>0.0</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.98</td><td>(-3.32)</td><td>-11.95 k</td><td>-45.31</td><td>(-5.65)</td><td>12.50 k</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.77</td><td>(-21.77)</td><td>-31.95 k</td><td>-42.19</td><td>(-22.19)</td><td>14.00 k</td><td>14.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><td>—</td></tr></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.23	(-1.55)	0.0	30.23	(-1.55)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.98	(-3.32)	-11.95 k	-45.31	(-5.65)	12.50 k	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.77	(-21.77)	-31.95 k	-42.19	(-22.19)	14.00 k	14.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	dBm	Upper ΔLim(dB)	Freq (Hz)																																																																
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—																																																																

Appendix C:Emission Mask

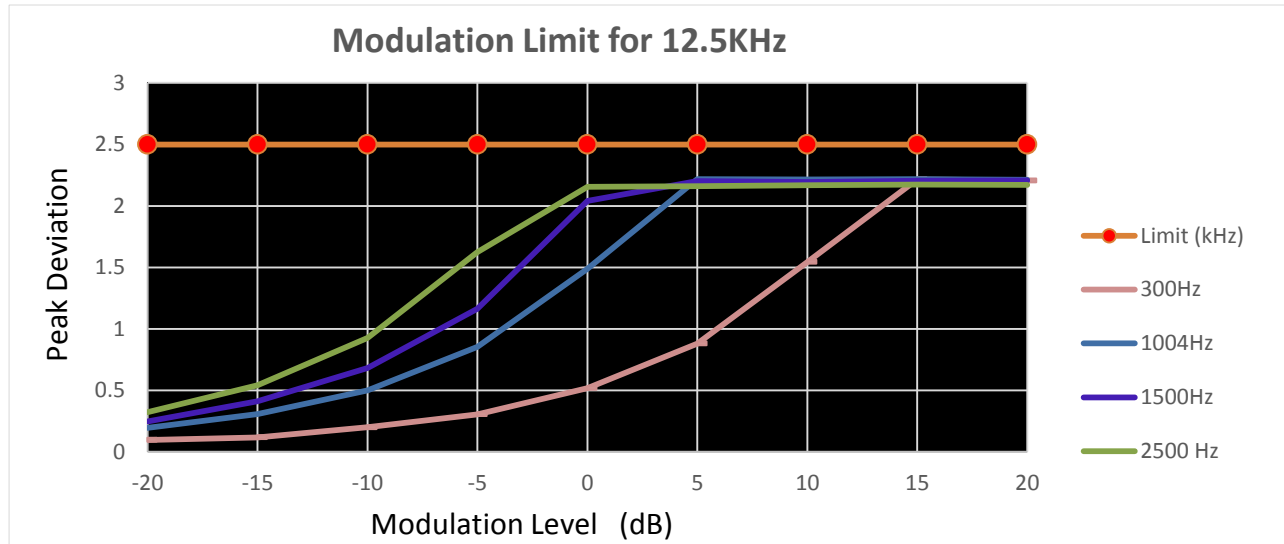
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:36:04 PM May 22, 2023 Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB PASS IF Gain: low Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 30.22 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.62</td><td>(-3.16)</td><td>0.0</td><td>28.62</td><td>(-3.16)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>40.55</td><td>(-0.89)</td><td>-12.50 k</td><td>-36.68</td><td>(-0.19)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.31</td><td>(-18.31)</td><td>-14.00 k</td><td>-36.83</td><td>(-16.83)</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></table> File <Temp.png> saved STATUS Frequency Center Freq 155.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.62	(-3.16)	0.0	28.62	(-3.16)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	40.55	(-0.89)	-12.50 k	-36.68	(-0.19)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.31	(-18.31)	-14.00 k	-36.83	(-16.83)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:37:44 PM May 22, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB PASS IF Gain: low Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm Center 173.9 MHz Span 120 kHz Total Power Ref 30.20 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.01</td><td>(-1.60)</td><td>0.0</td><td>30.06</td><td>(-1.55)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.34</td><td>(-7.15)</td><td>-12.00 k</td><td>-39.16</td><td>(-2.96)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.33</td><td>(-24.33)</td><td>-12.50 k</td><td>-42.32</td><td>(-22.32)</td><td>18.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.01	(-1.60)	0.0	30.06	(-1.55)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.34	(-7.15)	-12.00 k	-39.16	(-2.96)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.33	(-24.33)	-12.50 k	-42.32	(-22.32)	18.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	30.01	(-1.60)	0.0	30.06	(-1.55)	50.00																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 02:38:05 PM May 22, 2023 Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB PASS IF Gain: low Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm Center 173.9 MHz Span 120 kHz Total Power Ref 30.00 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak →</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.42</td><td>(-3.19)</td><td>0.0</td><td>28.42</td><td>(-3.19)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>40.28</td><td>(-0.45)</td><td>-12.50 k</td><td>-38.00</td><td>(-0.15)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.12</td><td>(-20.12)</td><td>-13.95 k</td><td>-37.63</td><td>(-17.63)</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></table> File <Temp.png> saved STATUS Frequency Center Freq 173.900000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.42	(-3.19)	0.0	28.42	(-3.19)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	40.28	(-0.45)	-12.50 k	-38.00	(-0.15)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.12	(-20.12)	-13.95 k	-37.63	(-17.63)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak →	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 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 _M	-20	0.097	0.195	0.248	0.323	2.5	PASS
TX-ANH	FM	CH _M	-15	0.119	0.308	0.411	0.541	2.5	PASS
TX-ANH	FM	CH _M	-10	0.200	0.501	0.682	0.927	2.5	PASS
TX-ANH	FM	CH _M	-5	0.306	0.854	1.164	1.624	2.5	PASS
TX-ANH	FM	CH _M	0	0.519	1.488	2.041	2.155	2.5	PASS
TX-ANH	FM	CH _M	5	0.881	2.219	2.203	2.160	2.5	PASS
TX-ANH	FM	CH _M	10	1.544	2.215	2.195	2.169	2.5	PASS
TX-ANH	FM	CH _M	15	2.216	2.219	2.206	2.174	2.5	PASS
TX-ANH	FM	CH _M	20	2.207	2.213	2.208	2.171	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

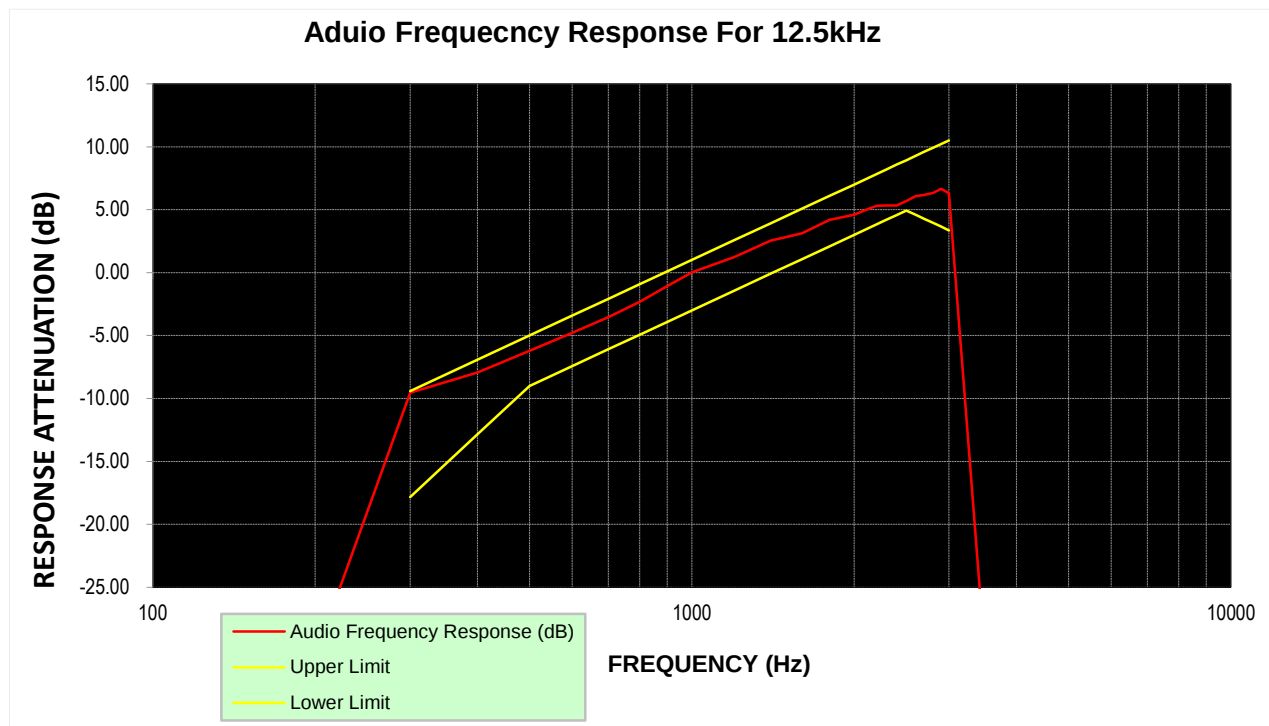


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-30.72			PASS
TX-ANH	FM	CH _M	200	-30.49			PASS
TX-ANH	FM	CH _M	300	-9.54	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-7.95	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-6.21	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-4.79	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.53	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-2.32	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-1.08	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.23	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	2.55	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	3.12	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	4.18	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	4.59	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	4.97	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	5.30	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	5.33	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	5.34	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	5.69	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	6.07	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	6.17	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	6.32	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	6.65	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	6.29	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	-30.54			PASS
TX-ANH	FM	CH _M	4000	-30.52			PASS
TX-ANH	FM	CH _M	4500	-30.75			PASS
TX-ANH	FM	CH _M	5000	-30.80			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 _M	CH _H		
TX-DNH	4FSK	V _N	-30	-0.082	-0.081	-0.088	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.088	-0.083	-0.093	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.089	-0.082	-0.087	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.083	-0.080	-0.091	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.088	-0.082	-0.087	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.082	-0.076	-0.085	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.086	-0.078	-0.087	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.089	-0.082	-0.090	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.083	-0.082	-0.092	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.092	-0.063	-0.090	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.088	-0.064	-0.091	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.091	-0.065	-0.090	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.090	-0.066	-0.091	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.091	-0.064	-0.096	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.084	-0.063	-0.088	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.087	-0.068	-0.090	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.084	-0.066	-0.092	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.088	-0.065	-0.092	±5.0	PASS
TX-ANH	FM	V _N	-30	0.164	0.211	0.188	±5.0	PASS
TX-ANH	FM	V _N	-20	0.154	0.213	0.190	±5.0	PASS
TX-ANH	FM	V _N	-10	0.159	0.205	0.190	±5.0	PASS
TX-ANH	FM	V _N	0	0.168	0.214	0.201	±5.0	PASS
TX-ANH	FM	V _N	10	0.166	0.200	0.196	±5.0	PASS
TX-ANH	FM	V _N	20	0.153	0.199	0.183	±5.0	PASS
TX-ANH	FM	V _N	30	0.158	0.200	0.189	±5.0	PASS
TX-ANH	FM	V _N	40	0.163	0.216	0.197	±5.0	PASS
TX-ANH	FM	V _N	50	0.153	0.216	0.196	±5.0	PASS
TX-ANL	FM	V _N	-30	0.182	0.192	0.193	±5.0	PASS
TX-ANL	FM	V _N	-20	0.188	0.193	0.193	±5.0	PASS
TX-ANL	FM	V _N	-10	0.195	0.190	0.178	±5.0	PASS
TX-ANL	FM	V _N	0	0.195	0.193	0.194	±5.0	PASS
TX-ANL	FM	V _N	10	0.197	0.183	0.185	±5.0	PASS
TX-ANL	FM	V _N	20	0.182	0.183	0.176	±5.0	PASS
TX-ANL	FM	V _N	30	0.189	0.193	0.188	±5.0	PASS
TX-ANL	FM	V _N	40	0.184	0.188	0.180	±5.0	PASS
TX-ANL	FM	V _N	50	0.186	0.198	0.180	±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 _M	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.082	-0.076	-0.085	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.082	-0.077	-0.086	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.083	-0.079	-0.087	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.084	-0.063	-0.088	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.084	-0.063	-0.088	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.085	-0.066	-0.090	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.153	0.199	0.183	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.155	0.201	0.185	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.155	0.209	0.192	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.182	0.183	0.176	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.185	0.185	0.179	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.193	0.194	0.185	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _M	MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG: IFP(17MHz) YIG Bypass IFM Time Domain CF 155.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 32.31 dBm</th> <th colspan="2">Carrier Offset -1.58 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>16.19 kHz</td> <td>-15.548 kHz</td> <td>15.869 kHz</td> <td>2.7715 kHz</td> </tr> </tbody> </table> FM 14.051 kHz -14.47 kHz 14.261 kHz 2.743 kHz Analog Demod: Waiting for Trigger... Date: 22 MAY 2023 11:26:49	Carrier Power 32.31 dBm		Carrier Offset -1.58 Hz		+Peak	-Peak	+Peak/2	RMS	16.19 kHz	-15.548 kHz	15.869 kHz	2.7715 kHz
Carrier Power 32.31 dBm		Carrier Offset -1.58 Hz													
+Peak	-Peak	+Peak/2	RMS												
16.19 kHz	-15.548 kHz	15.869 kHz	2.7715 kHz												
TX-DNH	4FSK	CH _M	MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG: IFP(17MHz) YIG Bypass IFM Time Domain CF 155.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 32.29 dBm</th> <th colspan="2">Carrier Offset 0.23 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>14.051 kHz</td> <td>-14.47 kHz</td> <td>14.261 kHz</td> <td>2.743 kHz</td> </tr> </tbody> </table> FM 14.051 kHz -14.47 kHz 14.261 kHz 2.743 kHz Analog Demod: Waiting for Trigger... Date: 22 MAY 2023 11:27:52	Carrier Power 32.29 dBm		Carrier Offset 0.23 Hz		+Peak	-Peak	+Peak/2	RMS	14.051 kHz	-14.47 kHz	14.261 kHz	2.743 kHz
Carrier Power 32.29 dBm		Carrier Offset 0.23 Hz													
+Peak	-Peak	+Peak/2	RMS												
14.051 kHz	-14.47 kHz	14.261 kHz	2.743 kHz												
TX-ANH	FM	CH _M	MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG: IFP(17MHz) YIG Bypass IFM Time Domain CF 155.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 32.31 dBm</th> <th colspan="2">Carrier Offset 2.70 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>19.782 kHz</td> <td>-12.641 kHz</td> <td>16.211 kHz</td> <td>2.7842 kHz</td> </tr> </tbody> </table> FM 19.782 kHz -12.641 kHz 16.211 kHz 2.7842 kHz Analog Demod: Waiting for Trigger... Date: 22 MAY 2023 11:27:14	Carrier Power 32.31 dBm		Carrier Offset 2.70 Hz		+Peak	-Peak	+Peak/2	RMS	19.782 kHz	-12.641 kHz	16.211 kHz	2.7842 kHz
Carrier Power 32.31 dBm		Carrier Offset 2.70 Hz													
+Peak	-Peak	+Peak/2	RMS												
19.782 kHz	-12.641 kHz	16.211 kHz	2.7842 kHz												

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRIG: IFBY (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms/ CF 155.0 MHz 4 Result Summary <table><tr><td></td><td>Carrier Power 32.28 dBm</td><td>Carrier Offset -0.71 Hz</td><td></td><td></td><td></td><td></td></tr><tr><td>FM</td><td>+Peak 13.604 kHz</td><td>-Peak -13.287 kHz</td><td>+Peak/2 13.445 kHz</td><td>RMS 2.7215 kHz</td><td>Mod. Freq. ---</td><td>SINAD ---</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>THD ---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...22.05.2023 11:27:34		Carrier Power 32.28 dBm	Carrier Offset -0.71 Hz					FM	+Peak 13.604 kHz	-Peak -13.287 kHz	+Peak/2 13.445 kHz	RMS 2.7215 kHz	Mod. Freq. ---	SINAD ---						THD ---
	Carrier Power 32.28 dBm	Carrier Offset -0.71 Hz																					
FM	+Peak 13.604 kHz	-Peak -13.287 kHz	+Peak/2 13.445 kHz	RMS 2.7215 kHz	Mod. Freq. ---	SINAD ---																	
					THD ---																		
			Date: 22 MAY 2023 11:27:35																				

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 125.06 MHz -49.771 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) MKR MODE TRC SOL 1 N 1 f 135.73 MHz -11.228 dBm 2 N 1 f 272.50 MHz -40.553 dBm 3 N 1 f 125.06 MHz -49.771 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Swept SA Center Freq 1.180500000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.266 057 GHz -53.253 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.3610 GHz Sweep 1.000 ms (1001 pts) MKR MODE TRC SOL 1 N 1 f 1.266 057 GHz -53.253 dBm Frequency Auto Tune Center Freq 1.180500000 GHz Start Freq 1.000000000 GHz Stop Freq 1.361000000 GHz CF Step 36.100000 MHz Auto Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 127.97 MHz -50.807 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) MKR MODE TRC SOL 1 N 1 f 156.13 MHz -7.500 dBm 2 N 1 f 310.33 MHz -48.199 dBm 3 N 1 f 127.97 MHz -50.807 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																				
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Swept SA Center Freq 1.275000000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.442 20 GHz -53.401 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Frequency Auto Tune Center Freq 1.275000000 GHz Start Freq 1.000000000 GHz Stop Freq 1.550000000 GHz CF Step 55.000000 MHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 182.29 MHz -50.488 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SC</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>173.56 MHz</td><td>-5.565 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>348.16 MHz</td><td>-48.531 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>182.29 MHz</td><td>-50.488 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Swept SA Center Freq 1.369500000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.713 874 GHz -53.038 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Frequency Auto Tune Center Freq 1.369500000 GHz Start Freq 1.000000000 GHz Stop Freq 1.739000000 GHz CF Step 73.900000 MHz Auto Man Freq Offset 0 Hz </td></tr></td></tr>	TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 182.29 MHz -50.488 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SC</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>173.56 MHz</td><td>-5.565 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>348.16 MHz</td><td>-48.531 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>182.29 MHz</td><td>-50.488 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Swept SA Center Freq 1.180500000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.011 913 GHz -53.530 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.361 GHz Sweep 1.000 ms (1001 pts) <table><thead><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.011 913 GHz</td><td>-53.530 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 1.180500000 GHz Start Freq 1.000000000 GHz Stop Freq 1.361000000 GHz CF Step 36.100000 MHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.011 913 GHz	-53.530 dBm																					
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 182.29 MHz -52.194 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz <table><tr><th>MKS</th><th>MODE</th><th>TRC</th><th>SC</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>173.56 MHz</td><td>-7.016 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>348.16 MHz</td><td>-49.202 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>182.29 MHz</td><td>-52.194 dBm</td><td></td><td></td><td></td></tr></table>	MKS	MODE	TRC	SC	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	173.56 MHz	-7.016 dBm				2	N	1	f	348.16 MHz	-49.202 dBm				3	N	1	f	182.29 MHz	-52.194 dBm			
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