

Project No.	SHT2212063205EW		
Test sample No.	YPHT22120632002	Model No.	AWR-D5500
Start test date	2023/1/5	Finish date	2023/1/29
Temperature	22.7°C	Humidity	53%
Test Engineer	<i>Chunshui Gu</i>	Auditor	<i>Xiaolong 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	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNH	4FSK	CH _M	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNH	4FSK	CH _H	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNL	4FSK	CH _L	31.7	1.48	1.50	-1.3	±20	PASS
TX-DNL	4FSK	CH _M	31.5	1.41	1.50	-6.0	±20	PASS
TX-DNL	4FSK	CH _H	31.0	1.26	1.50	-16.0	±20	PASS
TX-ANH	FM	CH _L	36.1	4.06	4.50	-9.8	±20	PASS
TX-ANH	FM	CH _M	36.0	3.95	4.50	-12.2	±20	PASS
TX-ANH	FM	CH _H	36.2	4.17	4.50	-7.3	±20	PASS
TX-ANL	FM	CH _L	31.2	1.30	1.50	-13.3	±20	PASS
TX-ANL	FM	CH _M	31.0	1.24	1.50	-17.3	±20	PASS
TX-ANL	FM	CH _H	31.2	1.31	1.50	-12.7	±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	7.586	9.728	≤ 11.25	PASS
TX-DNH	4FSK	CH _M	7.582	9.545	≤ 11.25	PASS
TX-DNH	4FSK	CH _H	7.586	9.770	≤ 11.25	PASS
TX-DNL	4FSK	CH _L	7.377	9.438	≤ 11.25	PASS
TX-DNL	4FSK	CH _M	7.548	9.795	≤ 11.25	PASS
TX-DNL	4FSK	CH _H	7.709	9.698	≤ 11.25	PASS
TX-ANH	FM	CH _L	5.149	5.257	≤ 11.25	PASS
TX-ANH	FM	CH _M	5.147	5.256	≤ 11.25	PASS
TX-ANH	FM	CH _H	5.159	5.240	≤ 11.25	PASS
TX-ANL	FM	CH _L	5.158	5.250	≤ 11.25	PASS
TX-ANL	FM	CH _M	5.153	5.254	≤ 11.25	PASS
TX-ANL	FM	CH _H	5.160	5.241	≤ 11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Ref 41.64 dBm</p> <p>Occupied Bandwidth 7.586 kHz</p> <p>Total Power 42.6 dBm</p> <p>Transmit Freq Error -229 Hz</p> <p>x dB Bandwidth 9.728 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNH	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Ref 40.96 dBm</p> <p>Occupied Bandwidth 7.582 kHz</p> <p>Total Power 42.5 dBm</p> <p>Transmit Freq Error -170 Hz</p> <p>x dB Bandwidth 9.545 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Ref 40.52 dBm</p> <p>Occupied Bandwidth 7.586 kHz</p> <p>Total Power 42.7 dBm</p> <p>Transmit Freq Error -104 Hz</p> <p>x dB Bandwidth 9.770 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

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TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Center Freq: 400.100000 MHz</p> <p>Total Power: 38.5 dBm</p> <p>Occupied Bandwidth: 7.377 kHz</p> <p>Transmit Freq Error: -144 Hz</p> <p>x dB Bandwidth: 9.438 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Center Freq: 435.000000 MHz</p> <p>Total Power: 38.1 dBm</p> <p>Occupied Bandwidth: 7.548 kHz</p> <p>Transmit Freq Error: -168 Hz</p> <p>x dB Bandwidth: 9.795 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Center Freq: 479.900000 MHz</p> <p>Total Power: 37.5 dBm</p> <p>Occupied Bandwidth: 7.709 kHz</p> <p>Transmit Freq Error: -183 Hz</p> <p>x dB Bandwidth: 9.698 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>

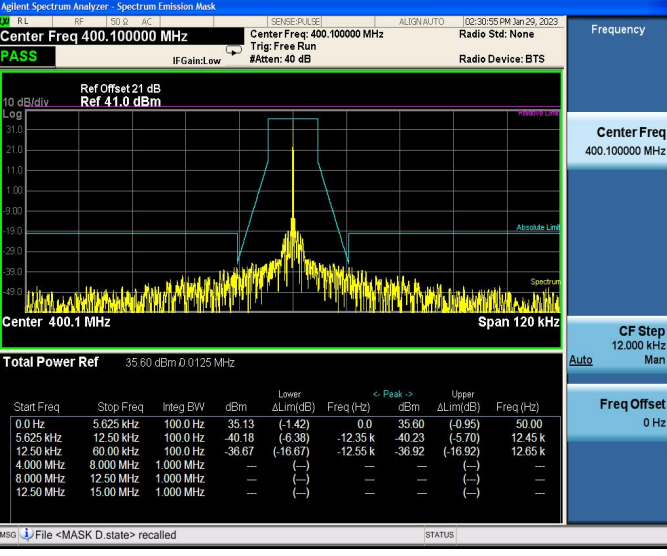
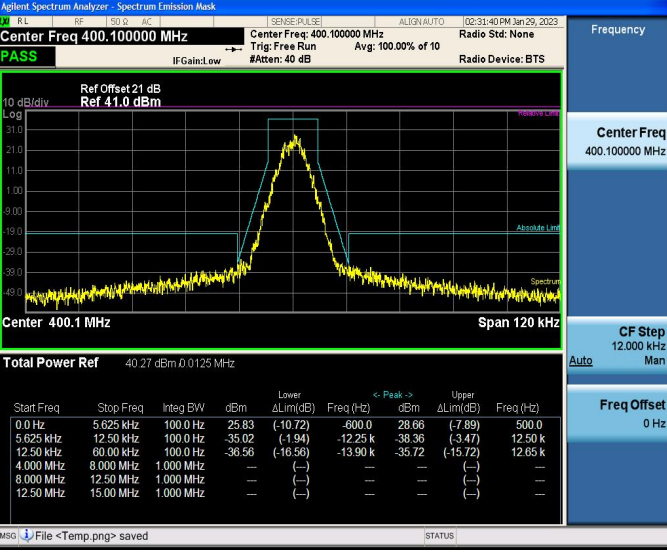
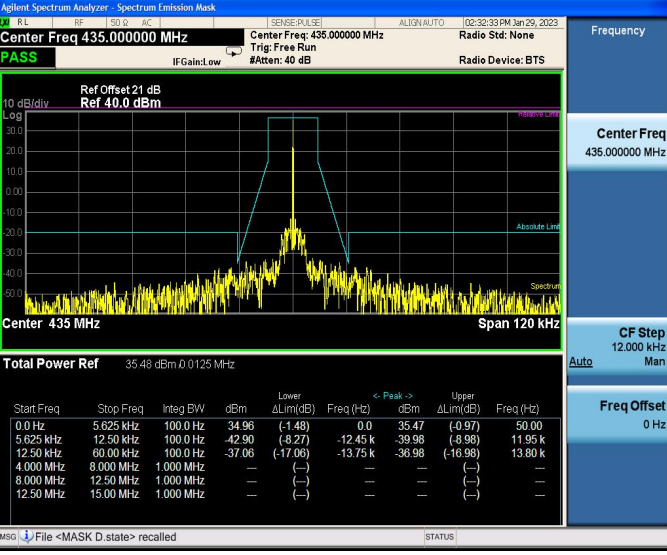
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TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Occupied Bandwidth 5.149 kHz</p> <p>Total Power 35.1 dBm</p> <p>Transmit Freq Error 2 Hz</p> <p>x dB Bandwidth 5.257 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANH	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Occupied Bandwidth 5.147 kHz</p> <p>Total Power 34.9 dBm</p> <p>Transmit Freq Error 1 Hz</p> <p>x dB Bandwidth 5.256 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Occupied Bandwidth 5.159 kHz</p> <p>Total Power 35.5 dBm</p> <p>Transmit Freq Error -16 Hz</p> <p>x dB Bandwidth 5.240 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Occupied Bandwidth 5.158 kHz</p> <p>Total Power 30.1 dBm</p> <p>Transmit Freq Error 9 Hz</p> <p>x dB Bandwidth 5.250 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANL	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Occupied Bandwidth 5.153 kHz</p> <p>Total Power 30.4 dBm</p> <p>Transmit Freq Error -6 Hz</p> <p>x dB Bandwidth 5.254 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Occupied Bandwidth 5.160 kHz</p> <p>Total Power 30.5 dBm</p> <p>Transmit Freq Error -24 Hz</p> <p>x dB Bandwidth 5.241 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

Appendix C:Emission Mask

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TX-DNH	4FSK	CH _L	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.100000 MHz</p> <p>Ref Offset 21 dB Ref 41.0 dBm</p> <p>Total Power Ref 35.60 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.13</td> <td>(-1.42)</td> <td>35.60</td> <td>0.0</td> <td>(-0.95)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.18</td> <td>(-6.38)</td> <td>-40.23</td> <td>-12.35 k</td> <td>(-5.70)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.67</td> <td>(-16.67)</td> <td>-36.92</td> <td>-12.55 k</td> <td>(-16.92)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	Peak dBm	0.0 Hz	5.625 kHz	100.0 Hz	35.13	(-1.42)	35.60	0.0	(-0.95)	5.625 kHz	12.50 kHz	100.0 Hz	-40.18	(-6.38)	-40.23	-12.35 k	(-5.70)	12.50 kHz	60.00 kHz	100.0 Hz	-36.67	(-16.67)	-36.92	-12.55 k	(-16.92)	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

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TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.100000 MHz Center Freq: 400.100000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 22 dB Ref 35.0 dBm</p> <p>Center 400.1 MHz Span 120 kHz</p> <p>Total Power Ref 29.86 dBm @ 0.0125 MHz</p> <table border="1"> <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>28.10</td> <td>(-3.34)</td> <td>0.0</td> <td>29.83</td> <td>(-1.61)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-1.70</td> <td>(-4.61)</td> <td>-12.10 k</td> <td>-11.61</td> <td>(-3.43)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.18</td> <td>(-23.18)</td> <td>-13.60 k</td> <td>-43.08</td> <td>(-23.08)</td> <td>12.60 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	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	28.10	(-3.34)	0.0	29.83	(-1.61)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-1.70	(-4.61)	-12.10 k	-11.61	(-3.43)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.18	(-23.18)	-13.60 k	-43.08	(-23.08)	12.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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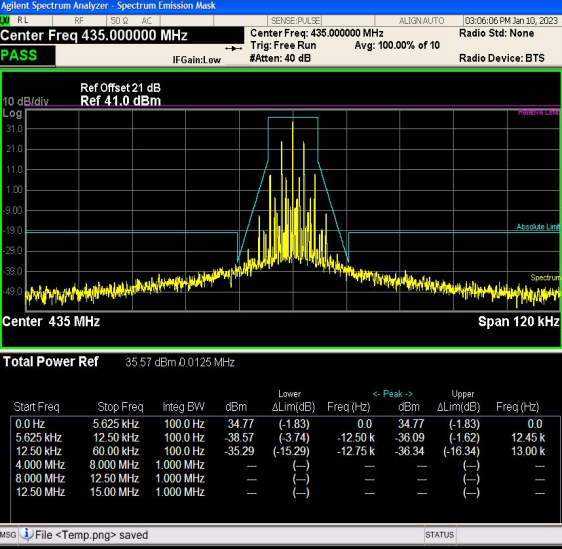
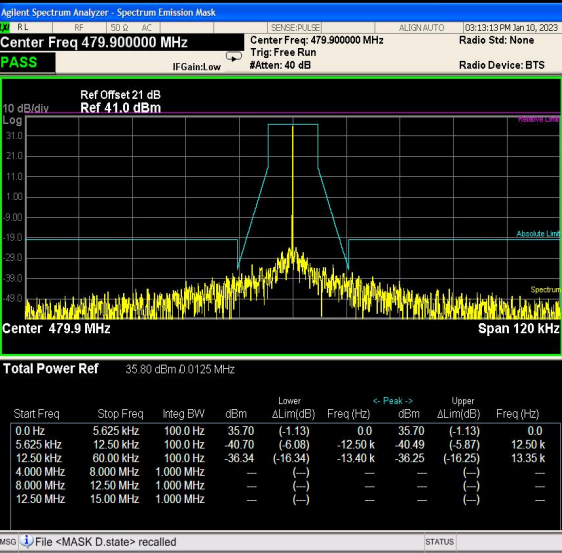
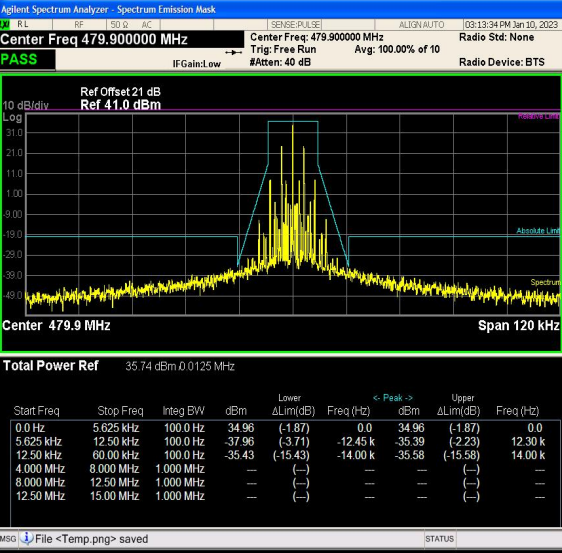
Appendix C:Emission Mask

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TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 435.000000 MHz</p> <p>Ref Offset 22 dB Ref 36.0 dBm</p> <p>Total Power Ref 34.89 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>20.83</td> <td>(-11.11)</td> <td>-1.800 k</td> <td>21.35</td> <td>(-10.59)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.61</td> <td>(-4.11)</td> <td>-12.50 k</td> <td>-44.43</td> <td>(-5.29)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.15</td> <td>(-21.15)</td> <td>-12.85 k</td> <td>-40.77</td> <td>(-20.77)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	Peak dBm	0.0 Hz	5.625 kHz	100.0 Hz	20.83	(-11.11)	-1.800 k	21.35	(-10.59)	5.625 kHz	12.50 kHz	100.0 Hz	-43.61	(-4.11)	-12.50 k	-44.43	(-5.29)	12.50 kHz	60.00 kHz	100.0 Hz	-41.15	(-21.15)	-12.85 k	-40.77	(-20.77)	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)
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TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.900000 MHz</p> <p>Ref Offset 22 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.43 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>26.44</td> <td>(-5.35)</td> <td>0.0</td> <td>30.26</td> <td>(-1.52)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.17</td> <td>(-6.97)</td> <td>-12.30 k</td> <td>-44.71</td> <td>(-5.43)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.66</td> <td>(-23.66)</td> <td>-13.35 k</td> <td>-44.51</td> <td>(-24.51)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	Peak dBm	0.0 Hz	5.625 kHz	100.0 Hz	26.44	(-5.35)	0.0	30.26	(-1.52)	5.625 kHz	12.50 kHz	100.0 Hz	-45.17	(-6.97)	-12.30 k	-44.71	(-5.43)	12.50 kHz	60.00 kHz	100.0 Hz	-43.66	(-23.66)	-13.35 k	-44.51	(-24.51)	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

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TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.100000 MHz Center Freq: 400.100000 MHz Radio Std: None</p> <p>IF Gain: Low #Atten: 40 dB</p> <p>Ref Offset: 21 dB Ref 41.0 dBm</p> <p>Center 400.1 MHz Span 120 kHz</p> <p>Total Power Ref 35.48 dBm @ 0.125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.47</td> <td>(-1.06)</td> <td>0.0</td> <td>35.47</td> <td>(-1.06)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.56</td> <td>(-4.20)</td> <td>-12.15 k</td> <td>-36.43</td> <td>(-4.07)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.11</td> <td>(-17.11)</td> <td>-13.70 k</td> <td>-37.15</td> <td>(-17.15)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Peak Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.47	(-1.06)	0.0	35.47	(-1.06)	5.625 kHz	12.50 kHz	100.0 Hz	-36.56	(-4.20)	-12.15 k	-36.43	(-4.07)	12.50 kHz	60.00 kHz	100.0 Hz	-37.11	(-17.11)	-13.70 k	-37.15	(-17.15)	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

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