



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Ref Offset 27 dB Ref 37.0 dBm Center 155 MHz Span 120 kHz Total Power Ref 35.58 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.69</td><td>(-10.58)</td><td>-200.0</td><td>26.30</td><td>(-6.96)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.93</td><td>(-5.49)</td><td>-11.85 k</td><td>-39.96</td><td>(-1.80)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.74</td><td>(-19.74)</td><td>-18.30 k</td><td>-36.20</td><td>(-16.20)</td><td>12.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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0.0 Hz	5.625 kHz	100.0 Hz	31.29	(-2.06)	0.0	32.25	(-1.10)	50.00																																																																																																																																																																																																
5.625 kHz	12.50 kHz	100.0 Hz	-42.21	(-4.85)	-12.40 k	-42.71	(-4.62)	12.50 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-41.21	(-21.21)	-12.85 k	-41.47	(-21.47)	12.95 k																																																																																																																																																																																																
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Ref Offset 27 dB Ref 37.0 dBm Center 174 MHz Span 120 kHz Total Power Ref 35.23 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.81</td><td>(-10.54)</td><td>-100.0</td><td>23.17</td><td>(-10.18)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.49</td><td>(-5.40)</td><td>-12.50 k</td><td>-40.97</td><td>(-2.88)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.24</td><td>(-19.24)</td><td>-15.50 k</td><td>-34.85</td><td>(-14.85)</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 Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.81	(-10.54)	-100.0	23.17	(-10.18)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.49	(-5.40)	-12.50 k	-40.97	(-2.88)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.24	(-19.24)	-15.50 k	-34.85	(-14.85)	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Center Freq 136.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 18.0 28.0 38.0 48.0 Center 136 MHz Span 120 kHz Total Power Ref 36.88 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>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>36.20</td><td>(-1.75)</td><td>0.0</td><td>36.94</td><td>(-1.01)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.98</td><td>(-5.94)</td><td>-12.30 k</td><td>-37.76</td><td>(-4.99)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.88</td><td>(-16.88)</td><td>-13.05 k</td><td>-37.53</td><td>(-17.53)</td><td>18.35 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 136.012500 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.20	(-1.75)	0.0	36.94	(-1.01)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-37.98	(-5.94)	-12.30 k	-37.76	(-4.99)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.88	(-16.88)	-13.05 k	-37.53	(-17.53)	18.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Center Freq 136.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 18.0 28.0 38.0 48.0 Center 136 MHz Span 120 kHz Total Power Ref 36.94 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>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>33.84</td><td>(-4.10)</td><td>0.0</td><td>35.75</td><td>(-2.20)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.89</td><td>(-2.76)</td><td>-12.45 k</td><td>-36.33</td><td>(-2.84)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.63</td><td>(-15.63)</td><td>-14.30 k</td><td>-35.08</td><td>(-15.08)</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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 136.012500 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.84	(-4.10)	0.0	35.75	(-2.20)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.89	(-2.76)	-12.45 k	-36.33	(-2.84)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.63	(-15.63)	-14.30 k	-35.08	(-15.08)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	33.84	(-4.10)	0.0	35.75	(-2.20)	50.00																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-35.89	(-2.76)	-12.45 k	-36.33	(-2.84)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.63	(-15.63)	-14.30 k	-35.08	(-15.08)	12.55 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Center Freq 155.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 0.00 18.0 28.0 38.0 48.0 Center 155 MHz Span 120 kHz Total Power Ref 36.94 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>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>36.04</td><td>(-1.89)</td><td>0.0</td><td>37.03</td><td>(-0.90)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.64</td><td>(-6.49)</td><td>-12.45 k</td><td>-35.82</td><td>(-7.04)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.03</td><td>(-16.03)</td><td>-16.70 k</td><td>-35.88</td><td>(-15.88)</td><td>16.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 155.012500 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.04	(-1.89)	0.0	37.03	(-0.90)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.64	(-6.49)	-12.45 k	-35.82	(-7.04)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.03	(-16.03)	-16.70 k	-35.88	(-15.88)	16.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 3.1 100 Hz SENSE:PULSE ALIGN OFF 01:50:38 PM Oct 10, 2019 Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 48.0 Relative Cont Absolute Level Spectrum Center 155 MHz Span 120 kHz Total Power Ref 37.05 dBm/0.0125 MHz Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) < Peak > dBm Upper ΔLim(dB) Freq (Hz) 0.0 Hz 5.625 kHz 100.0 Hz 33.32 (-4.61) 0.0 35.80 (-2.13) 50.00 5.625 kHz 12.50 kHz 100.0 Hz -35.68 (-2.17) -12.50 k -37.05 (-3.54) 12.50 k 12.50 kHz 60.00 kHz 100.0 Hz -35.23 (-15.23) -16.65 k -34.64 (-14.64) 16.05 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 — (—) — — (—) — File <Temp.png> saved (STATUS) Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 3.1 100 Hz SENSE:PULSE ALIGN OFF 01:48:05 PM Oct 10, 2019 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 48.0 Relative Cont Absolute Level Spectrum Center 174 MHz Span 120 kHz Total Power Ref 36.83 dBm/0.0125 MHz Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) < Peak > dBm Upper ΔLim(dB) Freq (Hz) 0.0 Hz 5.625 kHz 100.0 Hz 35.94 (-1.95) 0.0 36.92 (-0.98) 50.00 5.625 kHz 12.50 kHz 100.0 Hz -38.15 (-6.79) -12.20 k -38.16 (-6.80) 12.30 k 12.50 kHz 60.00 kHz 100.0 Hz -38.02 (-18.02) -13.20 k -38.14 (-18.14) 13.30 k 4.000 MHz 8.000 MHz 1.000 MHz — (—) — — (—) — 8.000 MHz 12.50 MHz 1.000 MHz — (—) — — (—) — 12.50 MHz 15.00 MHz 1.000 MHz — (—) — — (—) — File <MASK.D.state> recalled (STATUS) Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 3.1 100 Hz SENSE:PULSE ALIGN OFF 01:48:26 PM Oct 10, 2019 Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 48.0 Relative Cont Absolute Level Spectrum Center 174 MHz Span 120 kHz Total Power Ref 37.00 dBm/0.0125 MHz Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) < Peak > dBm Upper ΔLim(dB) Freq (Hz) 0.0 Hz 5.625 kHz 100.0 Hz 32.26 (-5.63) 0.0 35.70 (-2.20) 100.0 5.625 kHz 12.50 kHz 100.0 Hz -34.12 (-1.31) -12.40 k -33.71 (-3.08) 12.10 k 12.50 kHz 60.00 kHz 100.0 Hz -32.97 (-12.97) -12.65 k -32.98 (-12.98) 12.80 k 4.000 MHz 8.000 MHz 1.000 MHz — (—) — — (—) — 8.000 MHz 12.50 MHz 1.000 MHz — (—) — — (—) — 12.50 MHz 15.00 MHz 1.000 MHz — (—) — — (—) — File <Temp.png> saved (STATUS) Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 136.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 Center 136 MHz Span 120 kHz Total Power Ref 32.86 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 > 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>31.97</td><td>(-1.94)</td><td>0.0</td><td>32.95</td><td>(-0.97)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.60</td><td>(-4.81)</td><td>-12.40 k</td><td>-41.68</td><td>(-4.15)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.86</td><td>(-21.86)</td><td>-19.35 k</td><td>-42.04</td><td>(-22.04)</td><td>19.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.97	(-1.94)	0.0	32.95	(-0.97)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.60	(-4.81)	-12.40 k	-41.68	(-4.15)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.86	(-21.86)	-19.35 k	-42.04	(-22.04)	19.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
		Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																								
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 136.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 Center 136 MHz Span 120 kHz Total Power Ref 32.92 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 > 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>29.81</td><td>(-4.10)</td><td>0.0</td><td>31.74</td><td>(-2.18)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.63</td><td>(-3.20)</td><td>-12.35 k</td><td>-37.63</td><td>(-0.11)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.68</td><td>(-18.68)</td><td>-12.55 k</td><td>-37.68</td><td>(-17.68)</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> Frequency Center Freq 136.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.81	(-4.10)	0.0	31.74	(-2.18)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.63	(-3.20)	-12.35 k	-37.63	(-0.11)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.68	(-18.68)	-12.55 k	-37.68	(-17.68)	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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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 Center 155 MHz Span 120 kHz Total Power Ref 32.66 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 > 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>31.65</td><td>(-2.05)</td><td>0.0</td><td>32.74</td><td>(-0.96)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.16</td><td>(-7.79)</td><td>-11.90 k</td><td>-41.45</td><td>(-7.35)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.14</td><td>(-23.14)</td><td>-15.65 k</td><td>-43.06</td><td>(-23.06)</td><td>26.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 155.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.65	(-2.05)	0.0	32.74	(-0.96)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.16	(-7.79)	-11.90 k	-41.45	(-7.35)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.14	(-23.14)	-15.65 k	-43.06	(-23.06)	26.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 155.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 -22.0 -32.0 -42.0 -52.0 Frequency Limit Absolute Limit Spectrum Center 155 MHz Span 120 kHz Total Power Ref 32.78 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.91</td><td>(-4.79)</td><td>0.0</td><td>31.51</td><td>(-2.19)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.16</td><td>(-1.43)</td><td>-12.50 k</td><td>-41.04</td><td>(-3.30)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.37</td><td>(-19.37)</td><td>-13.20 k</td><td>-39.04</td><td>(-19.04)</td><td>13.50 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 155.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.91	(-4.79)	0.0	31.51	(-2.19)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.16	(-1.43)	-12.50 k	-41.04	(-3.30)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.37	(-19.37)	-13.20 k	-39.04	(-19.04)	13.50 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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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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 Center Freq 173.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 -22.0 -32.0 -42.0 -52.0 Frequency Limit Absolute Limit Spectrum Center 174 MHz Span 120 kHz Total Power Ref 32.94 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>27.42</td><td>(6.32)</td><td>0.0</td><td>31.56</td><td>(-2.18)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.15</td><td>(-0.18)</td><td>-12.40 k</td><td>-41.10</td><td>(-3.40)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.59</td><td>(-19.59)</td><td>-16.65 k</td><td>-38.75</td><td>(-18.75)</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> File <Temp.png> saved STATUS Frequency Center Freq 173.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.42	(6.32)	0.0	31.56	(-2.18)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.15	(-0.18)	-12.40 k	-41.10	(-3.40)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.59	(-19.59)	-16.65 k	-38.75	(-18.75)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

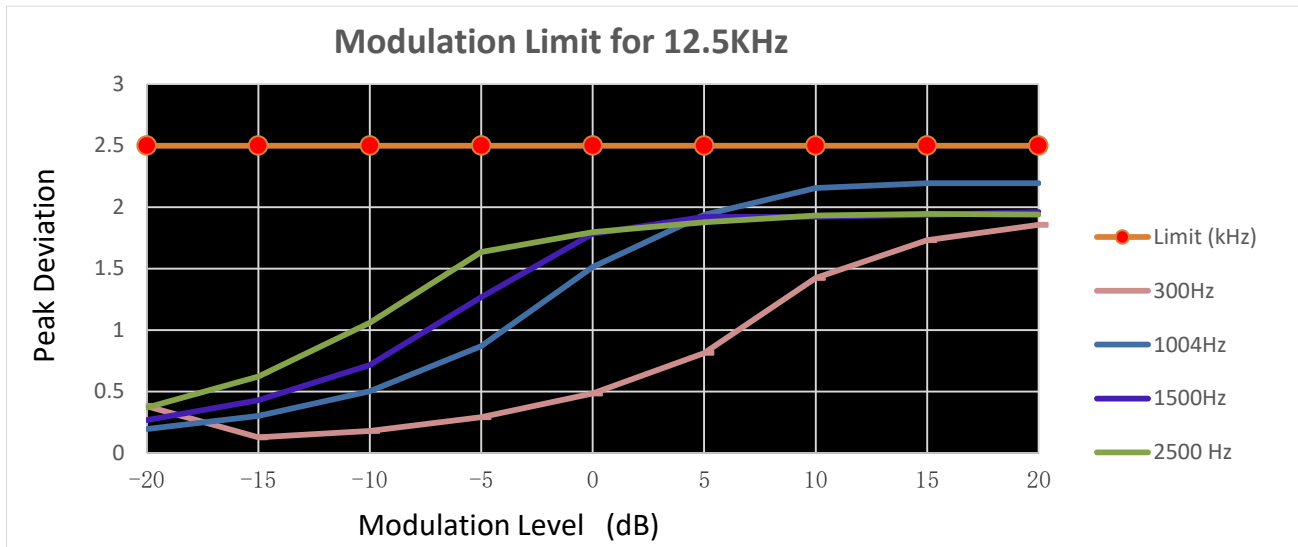
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.381	0.196	0.27	0.37	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.128	0.302	0.429	0.622	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.18	0.502	0.717	1.06	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.291	0.869	1.267	1.635	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.484	1.513	1.782	1.797	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.813	1.936	1.922	1.878	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.423	2.156	1.92	1.931	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.731	2.195	1.937	1.944	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.855	2.195	1.961	1.94	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

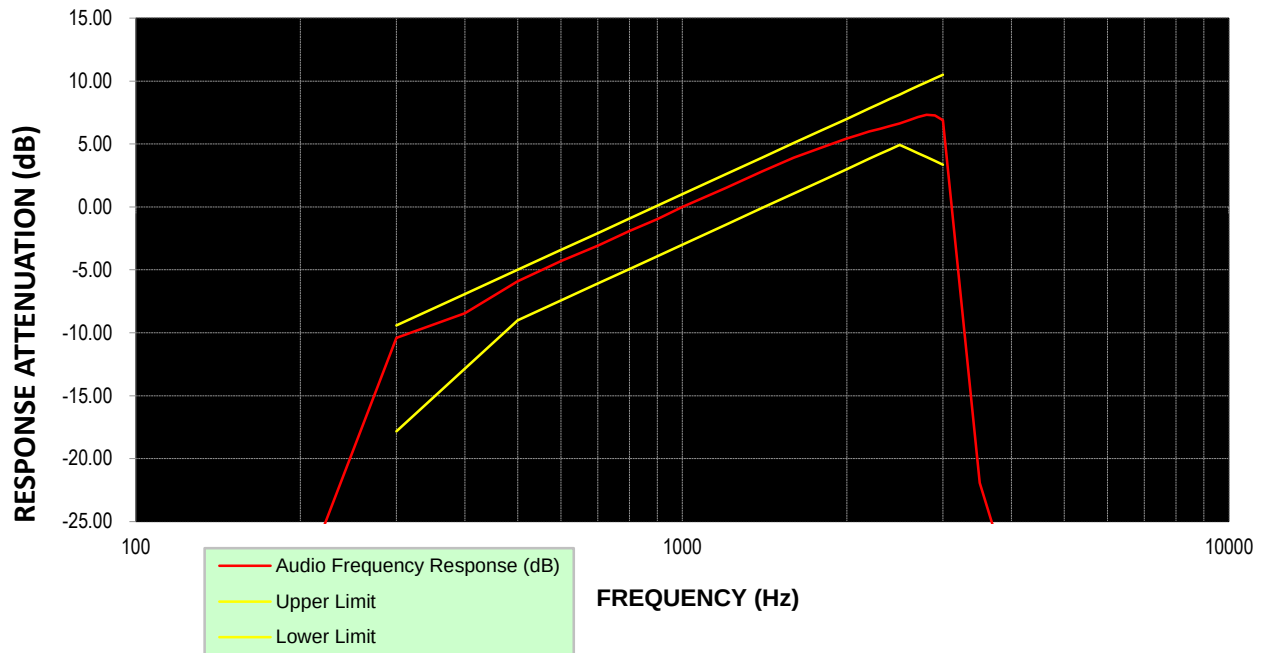
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-30.26	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-30.25	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-10.40	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.44	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-5.90	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.32	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.09	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.91	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.98	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.01	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.50	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.83	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.91	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.73	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.43	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.72	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.00	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.21	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	6.43	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	6.62	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.89	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.14	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.33	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.26	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.89	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-21.93	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-30.14	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-30.02	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-30.12	-	-	PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT

Aduio Freqeuncy Response For 12.5kHz



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

**Appendix F:Frequency Stability Test & Temperature**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M2}	CH _H		
TX-DNH	4FSK	V _N	-30	<u>0.084</u>	0.080	0.080	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.074	0.071	0.067	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.061	0.063	0.056	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.050	0.051	0.048	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.039	0.038	0.039	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.026	0.029	0.028	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.040	0.037	0.041	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.055	0.052	0.051	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.070	0.066	0.059	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.079	0.071	0.078	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.069	0.063	0.067	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.060	0.055	0.059	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.048	0.047	0.050	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.038	0.037	0.042	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.029	0.027	0.031	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.044	0.036	0.043	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.056	0.043	0.050	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.064	0.056	0.058	±5.0	PASS
TX-ANH	FM	V _N	-30	<u>0.242</u>	0.238	0.212	±5.0	PASS
TX-ANH	FM	V _N	-20	0.231	0.229	0.201	±5.0	PASS
TX-ANH	FM	V _N	-10	0.220	0.221	0.188	±5.0	PASS
TX-ANH	FM	V _N	0	0.211	0.213	0.179	±5.0	PASS
TX-ANH	FM	V _N	10	0.202	0.202	0.167	±5.0	PASS
TX-ANH	FM	V _N	20	0.194	0.189	0.158	±5.0	PASS
TX-ANH	FM	V _N	30	0.205	0.199	0.171	±5.0	PASS
TX-ANH	FM	V _N	40	0.217	0.214	0.185	±5.0	PASS
TX-ANH	FM	V _N	55	<u>0.225</u>	0.222	0.192	±5.0	PASS
TX-ANL	FM	V _N	-30	<u>0.255</u>	0.238	0.223	±5.0	PASS
TX-ANL	FM	V _N	-20	0.245	0.227	0.210	±5.0	PASS
TX-ANL	FM	V _N	-10	0.235	0.215	0.200	±5.0	PASS
TX-ANL	FM	V _N	0	0.226	0.207	0.187	±5.0	PASS
TX-ANL	FM	V _N	10	0.213	0.194	0.175	±5.0	PASS
TX-ANL	FM	V _N	20	<u>0.200</u>	0.182	0.165	±5.0	PASS
TX-ANL	FM	V _N	30	0.212	0.189	0.178	±5.0	PASS
TX-ANL	FM	V _N	40	0.227	0.204	0.189	±5.0	PASS
TX-ANL	FM	V _N	55	<u>0.235</u>	0.219	0.200	±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 _{M2}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.026	0.029	0.028	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.065	0.066	<u>0.073</u>	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.055	0.049	<u>0.056</u>	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.029	0.027	0.031	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.071	0.068	0.077	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.048	0.048	<u>0.051</u>	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.194	0.189	0.158	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.235	0.237	0.202	±5.0	PASS
TX-ANH	FM	V _H	T _N	<u>0.225</u>	0.222	0.190	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.200	0.182	0.165	±5.0	PASS
TX-ANL	FM	V _L	T _N	<u>0.237</u>	0.222	0.204	±5.0	PASS
TX-ANL	FM	V _H	T _N	<u>0.231</u>	0.207	0.197	±5.0	PASS

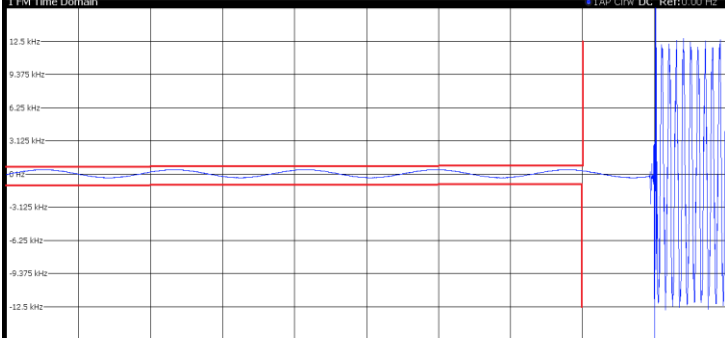


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: JFSK (17MHz) VIG Bypass 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 24.64 dBm</td><td colspan="2">Carrier Offset 9.50 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.196 kHz</td><td>-14.053 kHz</td><td>13.124 kHz</td><td>8.6811 kHz</td></tr><tr><td colspan="2">Mod. Freq. 1.0443 kHz</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... Date: 26.SEP.2019 13:19:13 OFF~ON	Carrier Power 24.64 dBm		Carrier Offset 9.50 Hz		+Peak	-Peak	+Peak/2	RMS	FM 12.196 kHz	-14.053 kHz	13.124 kHz	8.6811 kHz	Mod. Freq. 1.0443 kHz		SINAD	THD
Carrier Power 24.64 dBm		Carrier Offset 9.50 Hz																	
+Peak	-Peak	+Peak/2	RMS																
FM 12.196 kHz	-14.053 kHz	13.124 kHz	8.6811 kHz																
Mod. Freq. 1.0443 kHz		SINAD	THD																
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: JFSK (17MHz) VIG Bypass 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 24.65 dBm</td><td colspan="2">Carrier Offset 11.75 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 22.786 kHz</td><td>-22.714 kHz</td><td>22.75 kHz</td><td>2.8408 kHz</td></tr><tr><td colspan="2">Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... Date: 26.SEP.2019 13:20:34 ON-OFF	Carrier Power 24.65 dBm		Carrier Offset 11.75 Hz		+Peak	-Peak	+Peak/2	RMS	FM 22.786 kHz	-22.714 kHz	22.75 kHz	2.8408 kHz	Mod. Freq.		SINAD	THD
Carrier Power 24.65 dBm		Carrier Offset 11.75 Hz																	
+Peak	-Peak	+Peak/2	RMS																
FM 22.786 kHz	-22.714 kHz	22.75 kHz	2.8408 kHz																
Mod. Freq.		SINAD	THD																
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: JFSK (17MHz) VIG Bypass 1 FM Time Domain CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 24.64 dBm</td><td colspan="2">Carrier Offset 9.50 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.196 kHz</td><td>-14.053 kHz</td><td>13.124 kHz</td><td>8.6811 kHz</td></tr><tr><td colspan="2">Mod. Freq. 1.0443 kHz</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... Date: 26.SEP.2019 13:19:13 OFF~ON	Carrier Power 24.64 dBm		Carrier Offset 9.50 Hz		+Peak	-Peak	+Peak/2	RMS	FM 12.196 kHz	-14.053 kHz	13.124 kHz	8.6811 kHz	Mod. Freq. 1.0443 kHz		SINAD	THD
Carrier Power 24.64 dBm		Carrier Offset 9.50 Hz																	
+Peak	-Peak	+Peak/2	RMS																
FM 12.196 kHz	-14.053 kHz	13.124 kHz	8.6811 kHz																
Mod. Freq. 1.0443 kHz		SINAD	THD																

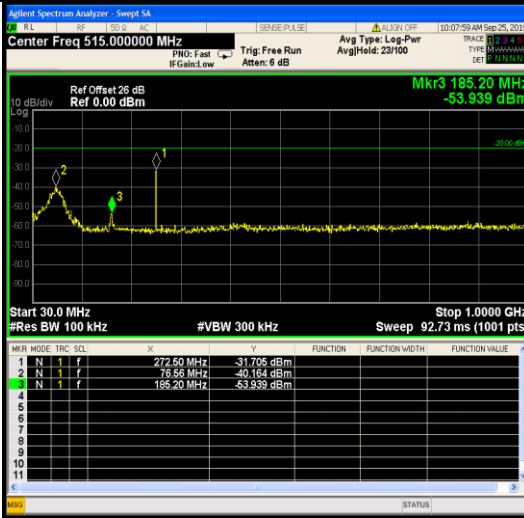
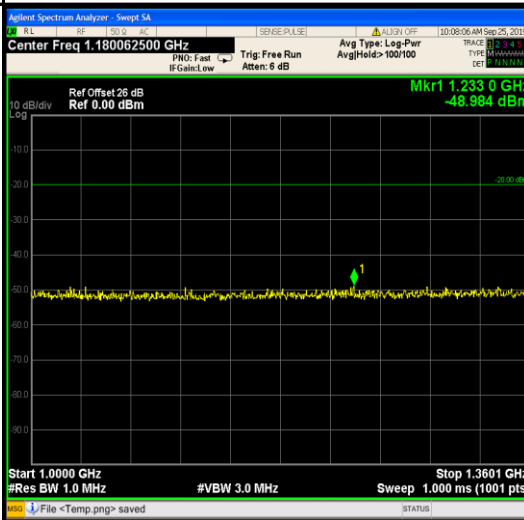
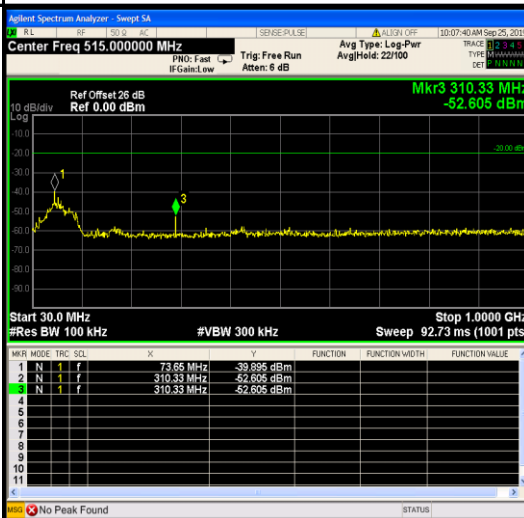


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 20 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRIG: JPSK (170MHz) VSG Bypass 1 FM Time Domain LAP Clw DC Ref:0.00 Hz  CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>24.65 dBm</th><th></th><th>Carrier Offset</th><th>11.75 Hz</th></tr><tr><td>FM</td><td>+Peak</td><td>22.786 kHz</td><td>-Peak</td><td>-22.714 kHz</td><td></td></tr><tr><td></td><td>+Peak/2</td><td>22.75 kHz</td><td>RMS</td><td>2.8408 kHz</td><td></td></tr><tr><td></td><td>Mod. Freq.</td><td></td><td>SINAD</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>THD</td><td></td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 26.09.2019 13:20:34 ON-OFF		Carrier Power	24.65 dBm		Carrier Offset	11.75 Hz	FM	+Peak	22.786 kHz	-Peak	-22.714 kHz			+Peak/2	22.75 kHz	RMS	2.8408 kHz			Mod. Freq.		SINAD						THD		
	Carrier Power	24.65 dBm		Carrier Offset	11.75 Hz																												
FM	+Peak	22.786 kHz	-Peak	-22.714 kHz																													
	+Peak/2	22.75 kHz	RMS	2.8408 kHz																													
	Mod. Freq.		SINAD																														
			THD																														

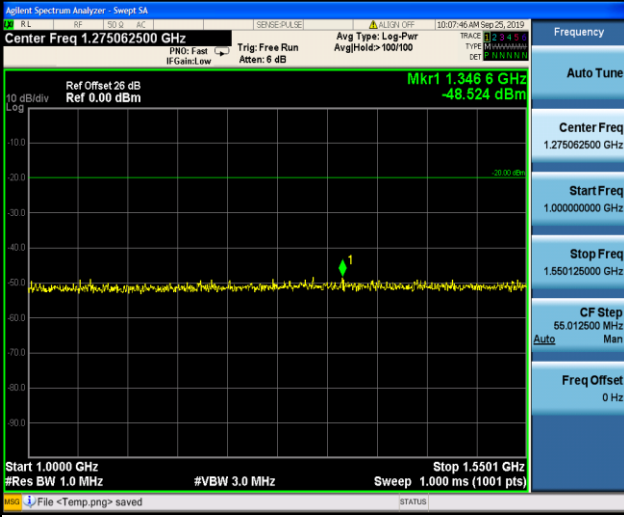
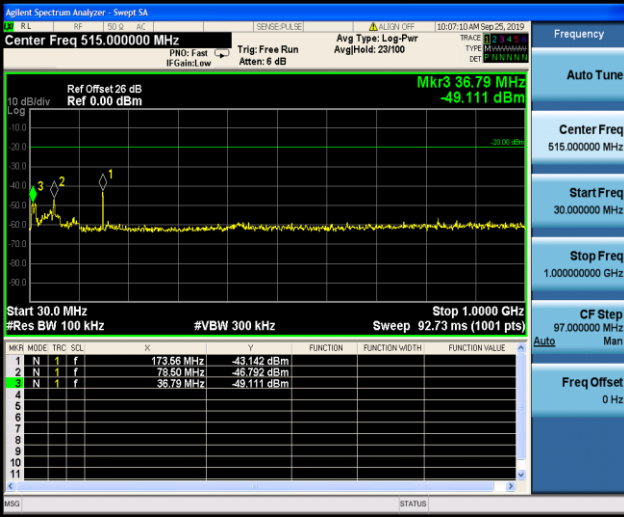
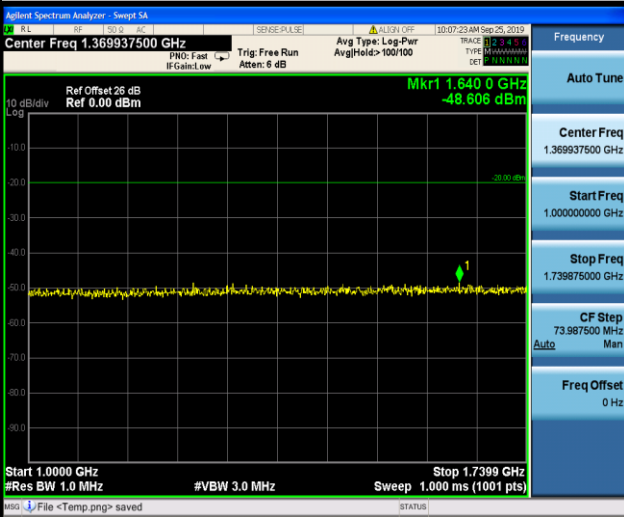


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _L	<table><tr><th>MNR</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><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>272.60 MHz</td><td>-31.706 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>76.66 MHz</td><td>-40.164 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>185.20 MHz</td><td>-53.939 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	272.60 MHz	-31.706 dBm				2	N	1	f	76.66 MHz	-40.164 dBm				3	N	1	f	185.20 MHz	-53.939 dBm			
MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	272.60 MHz	-31.706 dBm																																		
2	N	1	f	76.66 MHz	-40.164 dBm																																		
3	N	1	f	185.20 MHz	-53.939 dBm																																		
TX-DNH	4FSK	CH _L	<table><tr><th>MNR</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><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>1.2330 GHz</td><td>-48.984 dBm</td><td></td><td></td><td></td></tr></table> 1GHz~10th Harmonic	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.2330 GHz	-48.984 dBm																					
MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
1	N	1	f	1.2330 GHz	-48.984 dBm																																		
TX-DNH	4FSK	CH _{M2}	<table><tr><th>MNR</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><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>73.66 MHz</td><td>-39.895 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>310.33 MHz</td><td>-52.605 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>310.33 MHz</td><td>-52.605 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	MNR	MODE	TRC	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	73.66 MHz	-39.895 dBm				2	N	1	f	310.33 MHz	-52.605 dBm				3	N	1	f	310.33 MHz	-52.605 dBm			
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2	N	1	f	310.33 MHz	-52.605 dBm																																		
3	N	1	f	310.33 MHz	-52.605 dBm																																		

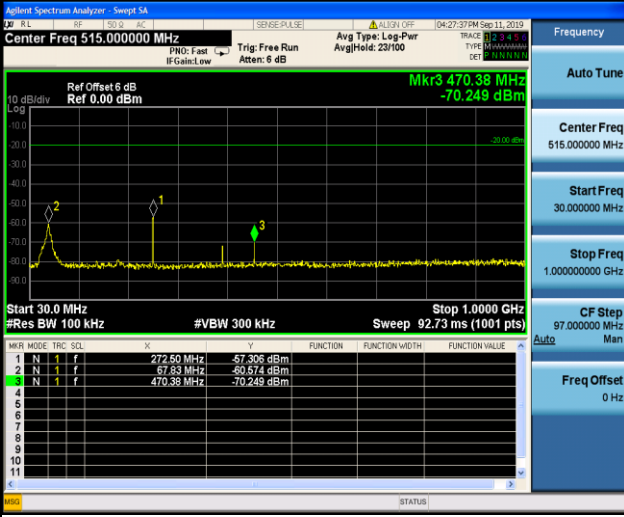
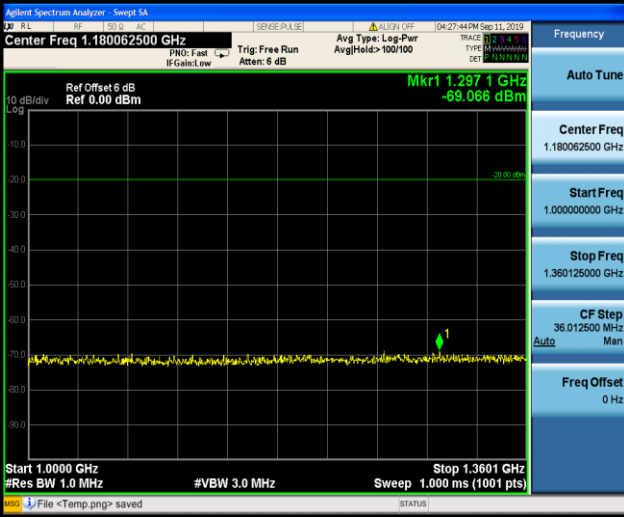
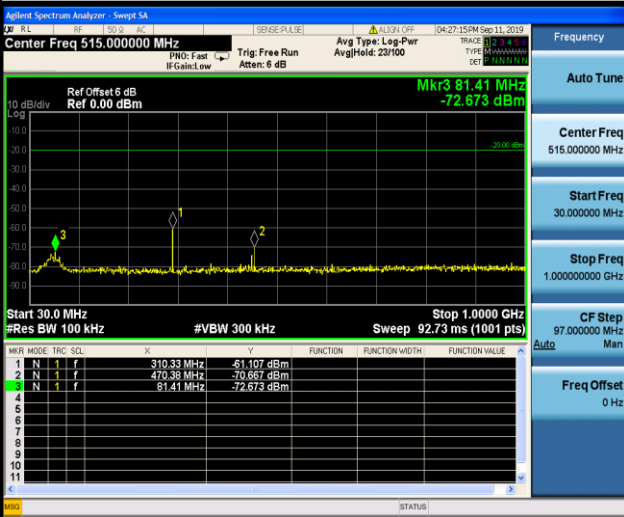


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 30MHz~1GHz
TX-DNH	4FSK	CH _H	 1GHz~10th Harmonic

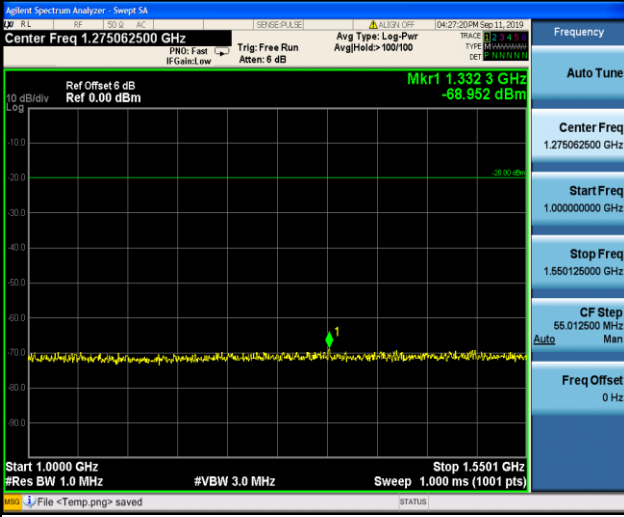
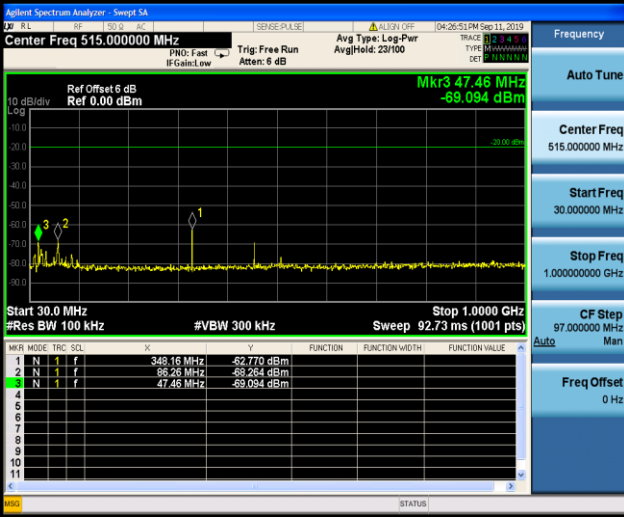
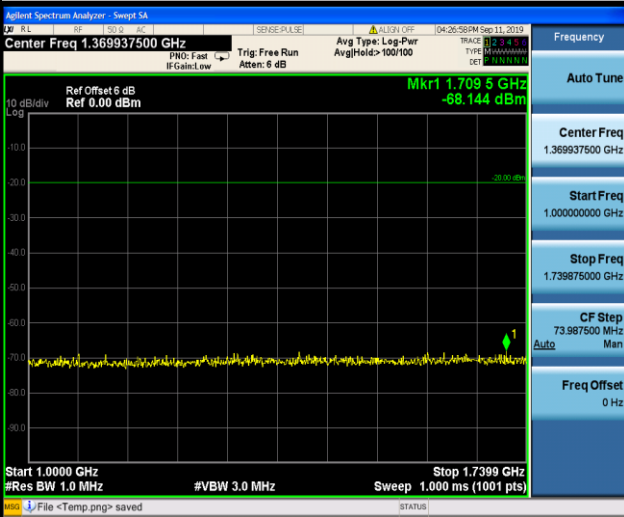


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	 30MHz~1GHz
TX-ANH	FM	CH _L	 1GHz~10th Harmonic
TX-ANH	FM	CH _{M2}	 30MHz~1GHz



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 1GHz~10th Harmonic
TX-ANH	FM	CH _H	 30MHz~1GHz
TX-ANH	FM	CH _H	 1GHz~10th Harmonic

----End of Report----