



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 50.0 AC SENSE PULSE ALIGN OFF 01:04:44 PM Dec 28, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 400 MHz Span 120 kHz Total Power Ref 36.14 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>27.97</td><td>(-9.02)</td><td>-2.450 k</td><td>33.81</td><td>(-3.18)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.10</td><td>(-2.38)</td><td>-12.40 k</td><td>-0.842</td><td>(-2.02)</td><td>7.600 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.28</td><td>(-15.28)</td><td>-14.20 k</td><td>-35.04</td><td>(-15.04)</td><td>13.90 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> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.97	(-9.02)	-2.450 k	33.81	(-3.18)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-36.10	(-2.38)	-12.40 k	-0.842	(-2.02)	7.600 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.28	(-15.28)	-14.20 k	-35.04	(-15.04)	13.90 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	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 11:37:08 AM Dec 28, 2018 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 406 MHz Span 120 kHz Total Power Ref 35.62 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>23.67</td><td>(-13.36)</td><td>0.0</td><td>35.70</td><td>(-1.33)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.52</td><td>(-4.93)</td><td>-12.25 k</td><td>-38.09</td><td>(-4.41)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.43</td><td>(-18.43)</td><td>-12.60 k</td><td>-36.85</td><td>(-16.85)</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 <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.67	(-13.36)	0.0	35.70	(-1.33)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.52	(-4.93)	-12.25 k	-38.09	(-4.41)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.43	(-18.43)	-12.60 k	-36.85	(-16.85)	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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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 11:37:30 AM Dec 28, 2018 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 27 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 406 MHz Span 120 kHz Total Power Ref 35.76 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > 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>27.98</td><td>(-9.05)</td><td>-2.400 k</td><td>33.82</td><td>(-3.21)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.29</td><td>(-0.97)</td><td>-12.35 k</td><td>-34.45</td><td>(-1.87)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.68</td><td>(-14.68)</td><td>-14.70 k</td><td>-32.29</td><td>(-12.29)</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 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.98	(-9.05)	-2.400 k	33.82	(-3.21)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.29	(-0.97)	-12.35 k	-34.45	(-1.87)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.68	(-14.68)	-14.70 k	-32.29	(-12.29)	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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS 12:57:36 PM Dec 28, 2018 Ref Offset 27 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 406.1 MHz Span 120 kHz Total Power Ref 35.85 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>35.85</td><td>(-1.40)</td><td>0.0</td><td>35.85</td><td>(-1.40)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.68</td><td>(-4.85)</td><td>-12.15 k</td><td>-37.26</td><td>(-5.06)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.57</td><td>(-16.57)</td><td>-12.95 k</td><td>-36.34</td><td>(-16.34)</td><td>13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.85	(-1.40)	0.0	35.85	(-1.40)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.68	(-4.85)	-12.15 k	-37.26	(-5.06)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.57	(-16.57)	-12.95 k	-36.34	(-16.34)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 12:58:00 PM Dec 28, 2018 Ref Offset 27 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 406.1 MHz Span 120 kHz Total Power Ref 36.28 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>33.76</td><td>(-3.30)</td><td>0.0</td><td>33.76</td><td>(-3.29)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.16</td><td>(-0.76)</td><td>-12.50 k</td><td>-34.85</td><td>(-0.47)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.83</td><td>(-13.83)</td><td>-12.50 k</td><td>-35.99</td><td>(-15.99)</td><td>17.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.76	(-3.30)	0.0	33.76	(-3.29)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.16	(-0.76)	-12.50 k	-34.85	(-0.47)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.83	(-13.83)	-12.50 k	-35.99	(-15.99)	17.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS 10:37:56 PM Jan 02, 2019 Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 Center 443 MHz Span 120 kHz Total Power Ref 36.11 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>34.20</td><td>(-2.73)</td><td>0.0</td><td>36.24</td><td>(-0.69)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.16</td><td>(-4.92)</td><td>-12.05 k</td><td>-36.71</td><td>(-4.39)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.75</td><td>(-17.75)</td><td>-14.95 k</td><td>-37.76</td><td>(-17.76)</td><td>15.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 443.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.20	(-2.73)	0.0	36.24	(-0.69)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.16	(-4.92)	-12.05 k	-36.71	(-4.39)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.75	(-17.75)	-14.95 k	-37.76	(-17.76)	15.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz Center Freq: 443.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log </

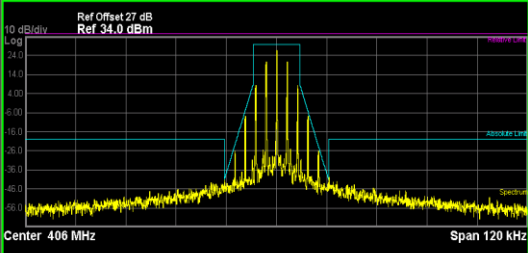
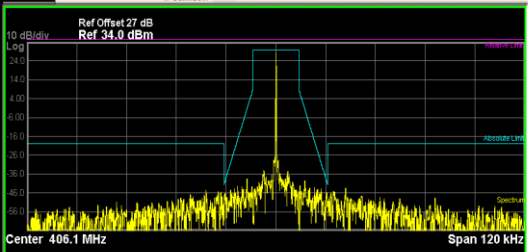
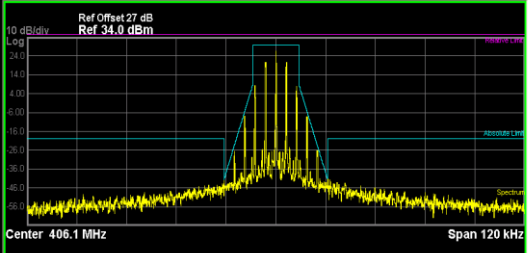


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	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 Center Freq 400.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 27 dB Ref 34.0 dBm 10 dB/div Log 24.0 14.0 4.00 16.0 26.0 36.0 46.0 56.0 Center 400 MHz Span 120 kHz Total Power Ref 28.40 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>16.29</td><td>(-13.54)</td><td>0.0</td><td>28.49</td><td>(-1.33)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.47</td><td>(-7.41)</td><td>-12.15 k</td><td>-46.66</td><td>(-6.51)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.80</td><td>(-24.80)</td><td>-19.00 k</td><td>-45.62</td><td>(-25.62)</td><td>19.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK.D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	16.29	(-13.54)	0.0	28.49	(-1.33)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.47	(-7.41)	-12.15 k	-46.66	(-6.51)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.80	(-24.80)	-19.00 k	-45.62	(-25.62)	19.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	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 Center Freq 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 27 dB Ref 34.0 dBm 10 dB/div Log 24.0 14.0 4.00 16.0 26.0 36.0 46.0 56.0 Center 400 MHz Span 120 kHz Total Power Ref 28.55 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>20.77</td><td>(-9.06)</td><td>-2.400 k</td><td>26.62</td><td>(-3.21)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.64</td><td>(-0.75)</td><td>-12.40 k</td><td>-43.56</td><td>(-1.95)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.49</td><td>(-21.49)</td><td>-14.00 k</td><td>-41.88</td><td>(-21.88)</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></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.77	(-9.06)	-2.400 k	26.62	(-3.21)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.64	(-0.75)	-12.40 k	-43.56	(-1.95)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.49	(-21.49)	-14.00 k	-41.88	(-21.88)	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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANL	FM	CH _{M1}	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 Center Freq 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 27 dB Ref 34.0 dBm 10 dB/div Log 24.0 14.0 4.00 16.0 26.0 36.0 46.0 56.0 Center 406 MHz Span 120 kHz Total Power Ref 28.45 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>8.954</td><td>(-20.92)</td><td>0.0</td><td>28.47</td><td>(-1.41)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.95</td><td>(-7.29)</td><td>-12.10 k</td><td>-45.27</td><td>(-5.16)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.65</td><td>(-25.65)</td><td>-19.15 k</td><td>-43.72</td><td>(-23.72)</td><td>13.90 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></table> MSO File <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	8.954	(-20.92)	0.0	28.47	(-1.41)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.95	(-7.29)	-12.10 k	-45.27	(-5.16)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.65	(-25.65)	-19.15 k	-43.72	(-23.72)	13.90 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 11:39:37 AM Dec 26, 2018 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 27 dB Ref 34.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 28.61 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > 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>20.78</td><td>(-9.10)</td><td>-2.400 k</td><td>26.63</td><td>(-3.25)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.45</td><td>(-0.62)</td><td>-12.40 k</td><td>-7.993</td><td>(-1.69)</td><td>7.650 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.79</td><td>(-22.79)</td><td>-15.50 k</td><td>-40.02</td><td>(-20.02)</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 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	20.78	(-9.10)	-2.400 k	26.63	(-3.25)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.45	(-0.62)	-12.40 k	-7.993	(-1.69)	7.650 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.79	(-22.79)	-15.50 k	-40.02	(-20.02)	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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:39:53 PM Jan 02, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 27 dB Ref 34.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 28.34 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>25.81</td><td>(-4.01)</td><td>0.0</td><td>28.34</td><td>(-1.48)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.83</td><td>(-7.03)</td><td>-12.25 k</td><td>-45.61</td><td>(-5.08)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.49</td><td>(-24.49)</td><td>-16.70 k</td><td>-43.61</td><td>(-23.61)</td><td>16.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.81	(-4.01)	0.0	28.34	(-1.48)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.83	(-7.03)	-12.25 k	-45.61	(-5.08)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.49	(-24.49)	-16.70 k	-43.61	(-23.61)	16.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 01:40:15 PM Jan 02, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 27 dB Ref 34.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 28.51 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>24.02</td><td>(-5.80)</td><td>0.0</td><td>26.49</td><td>(-3.33)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.05</td><td>(-0.79)</td><td>-12.45 k</td><td>-42.45</td><td>(-0.83)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.91</td><td>(-23.91)</td><td>-12.75 k</td><td>-40.67</td><td>(-20.67)</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 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.02	(-5.80)	0.0	26.49	(-3.33)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.05	(-0.79)	-12.45 k	-42.45	(-0.83)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.91	(-23.91)	-12.75 k	-40.67	(-20.67)	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-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.012500 MHz PASS Ref Offset 28 dB Ref 34.0 dBm Center 443 MHz Span 120 kHz Total Power Ref 29.62 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>23.01</td><td>(-6.85)</td><td>0.0</td><td>29.15</td><td>(-0.71)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.65</td><td>(-7.43)</td><td>-12.45 k</td><td>-42.29</td><td>(-8.34)</td><td>11.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.35</td><td>(-25.35)</td><td>-14.65 k</td><td>-45.33</td><td>(-25.33)</td><td>14.80 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> Frequency Center Freq 443.012500 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	23.01	(-6.85)	0.0	29.15	(-0.71)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.65	(-7.43)	-12.45 k	-42.29	(-8.34)	11.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.35	(-25.35)	-14.65 k	-45.33	(-25.33)	14.80 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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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz PASS Ref Offset 27 dB Ref 32.0 dBm Center 480 MHz Span 120 kHz Total Power Ref 26.75 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>20.21</td><td>(-7.59)</td><td>0.0</td><td>26.17</td><td>(-1.62)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.25</td><td>(-4.43)</td><td>-12.25 k</td><td>-46.81</td><td>(-3.89)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.20</td><td>(-25.20)</td><td>-12.90 k</td><td>-45.46</td><td>(-25.46)</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 479.987500 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	20.21	(-7.59)	0.0	26.17	(-1.62)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.25	(-4.43)	-12.25 k	-46.81	(-3.89)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.20	(-25.20)	-12.90 k	-45.46	(-25.46)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRFSSDACLSENSE PULSEALIM OFF11:35:43 AM Dec 26, 2018 Center Freq 479.987500 MHzCenter Freq: 479.987500 MHzRadio Std: None PASSIF Gated LowTrig: Free RunAvg: 100.00% of 10 Ref Offset 27 dBRef 32.0 dBm 10 dB/div Center 480 MHzSpan 120 kHz Total Power Ref 26.74 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>18.57</td><td>(-9.23)</td><td>-2.450 k</td><td>24.41</td><td>(-3.38)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.06</td><td>(-1.78)</td><td>-12.45 k</td><td>-27.92</td><td>(-1.72)</td><td>10.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.82</td><td>(-24.82)</td><td>-14.65 k</td><td>-42.10</td><td>(-22.10)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.57	(-9.23)	-2.450 k	24.41	(-3.38)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.06	(-1.78)	-12.45 k	-27.92	(-1.72)	10.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.82	(-24.82)	-14.65 k	-42.10	(-22.10)	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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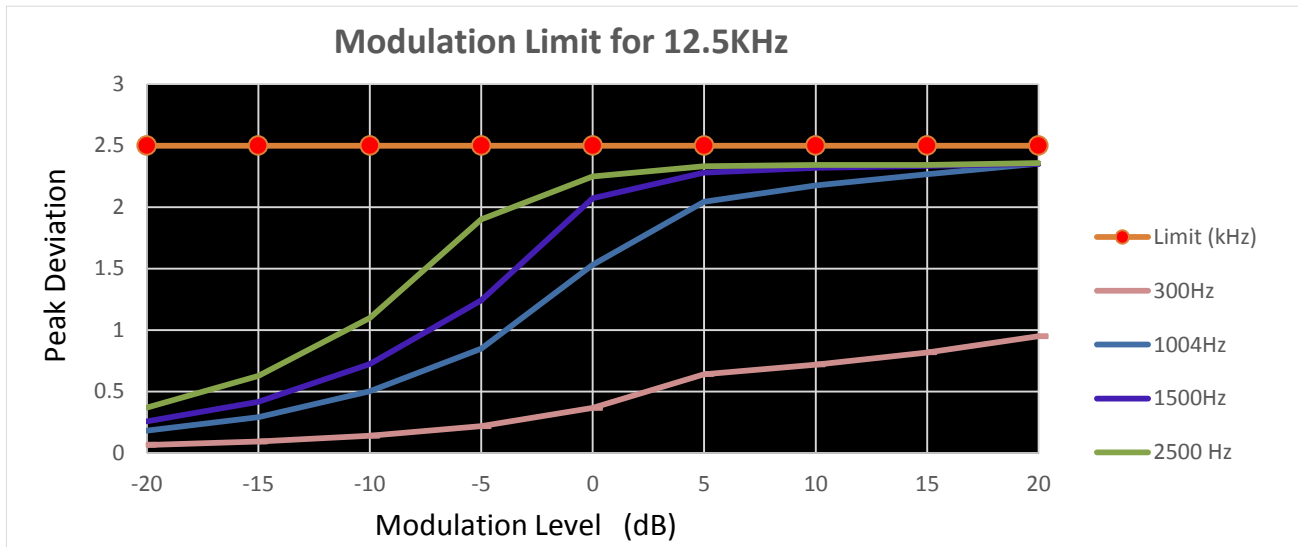
**Appendix D:Modulation Limit**

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	0.067	0.184	0.258	0.37	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.094	0.293	0.418	0.628	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.14	0.503	0.724	1.099	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.219	0.848	1.243	1.899	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.367	1.531	2.071	2.249	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.642	2.044	2.279	2.332	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.719	2.176	2.32	2.342	2.5	PASS
TX-ANH	FM	CH _{M2}	15	0.819	2.267	2.335	2.343	2.5	PASS
TX-ANH	FM	CH _{M2}	20	0.95	2.352	2.35	2.358	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

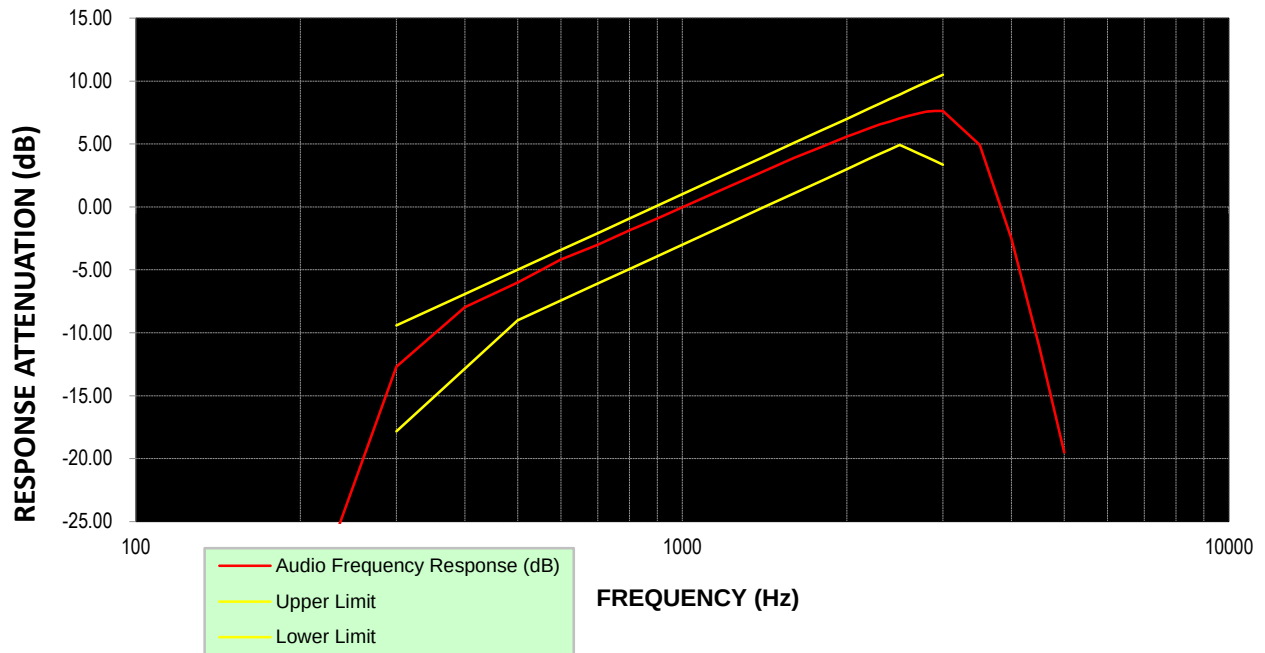
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-33.67	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-33.83	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-12.69	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-7.98	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.00	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.18	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.00	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.85	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.93	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.49	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.78	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.89	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.79	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.58	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.92	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.24	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.54	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	6.79	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	7.03	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	7.26	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.43	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.56	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.64	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.62	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	4.94	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-2.52	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-11.12	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-19.51	-	-	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 _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-0.082	-0.069	-0.038	-0.103	-0.157	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.072	-0.063	-0.034	-0.094	-0.131	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.066	-0.054	-0.030	-0.085	-0.120	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.053	-0.042	-0.025	-0.066	-0.098	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.043	-0.032	-0.017	-0.055	-0.077	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.031	-0.026	-0.014	-0.039	-0.059	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.042	-0.039	-0.019	-0.051	-0.083	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.059	-0.048	-0.024	-0.069	-0.105	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.065	-0.055	-0.027	-0.074	-0.123	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.068	-0.102	-0.114	-0.152	-0.144	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.059	-0.095	-0.100	-0.138	-0.110	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.050	-0.075	-0.081	-0.107	-0.109	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.042	-0.064	-0.069	-0.084	-0.085	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.038	-0.056	-0.057	-0.083	-0.072	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.026	-0.039	-0.041	-0.055	-0.052	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.034	-0.055	-0.055	-0.073	-0.075	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.048	-0.067	-0.072	-0.098	-0.096	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.051	-0.076	-0.078	-0.106	-0.106	±5.0	PASS
TX-ANH	FM	V _N	-30	0.385	0.373	0.378	0.385	0.371	±5.0	PASS
TX-ANH	FM	V _N	-20	0.381	0.374	0.379	0.382	0.359	±5.0	PASS
TX-ANH	FM	V _N	-10	0.366	0.358	0.362	0.374	0.346	±5.0	PASS
TX-ANH	FM	V _N	0	0.359	0.343	0.351	0.352	0.339	±5.0	PASS
TX-ANH	FM	V _N	10	0.347	0.332	0.339	0.343	0.331	±5.0	PASS
TX-ANH	FM	V _N	20	0.326	0.316	0.321	0.325	0.309	±5.0	PASS
TX-ANH	FM	V _N	30	0.348	0.334	0.339	0.341	0.334	±5.0	PASS
TX-ANH	FM	V _N	40	0.362	0.345	0.354	0.358	0.342	±5.0	PASS
TX-ANH	FM	V _N	55	0.369	0.354	0.364	0.363	0.352	±5.0	PASS
TX-ANL	FM	V _N	-30	0.385	0.372	0.377	0.385	0.365	±5.0	PASS
TX-ANL	FM	V _N	-20	0.383	0.363	0.368	0.368	0.356	±5.0	PASS
TX-ANL	FM	V _N	-10	0.363	0.353	0.361	0.364	0.346	±5.0	PASS
TX-ANL	FM	V _N	0	0.358	0.340	0.349	0.347	0.340	±5.0	PASS
TX-ANL	FM	V _N	10	0.347	0.333	0.338	0.337	0.324	±5.0	PASS
TX-ANL	FM	V _N	20	0.328	0.318	0.320	0.325	0.313	±5.0	PASS
TX-ANL	FM	V _N	30	0.343	0.329	0.337	0.336	0.328	±5.0	PASS
TX-ANL	FM	V _N	40	0.358	0.346	0.347	0.347	0.340	±5.0	PASS
TX-ANL	FM	V _N	55	0.371	0.353	0.355	0.364	0.344	±5.0	PASS

**Appendix G:Frequency Stability Test & Voltage**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.031	-0.026	<u>-0.014</u>	-0.039	-0.059	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.061	-0.065	-0.045	-0.080	-0.100	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.052	-0.045	-0.038	-0.064	-0.081	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.063	-0.059	-0.064	-0.080	-0.089	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.080	-0.071	-0.063	-0.078	-0.091	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.055	-0.048	-0.032	-0.063	-0.079	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.326	0.316	0.321	0.325	0.309	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.368	0.353	0.353	0.368	0.355	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.346	0.339	0.342	0.345	0.327	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.357	0.355	0.363	0.356	0.342	±5.0	PASS
TX-ANL	FM	V _L	T _N	<u>0.375</u>	0.345	0.347	0.366	0.339	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.346	0.334	0.339	0.347	0.327	±5.0	PASS

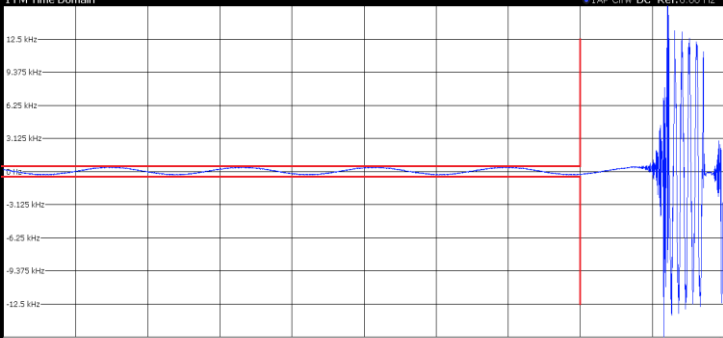


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																								
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB ATT 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: JPSK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 29.11 dBm</td><td colspan="2">Carrier Offset 25.25 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.506 kHz</td><td>-12.997 kHz</td><td>12.752 kHz</td><td>8.7489 kHz</td></tr><tr><td colspan="2"></td><td>Mod. Freq.</td><td>SINAD</td></tr><tr><td colspan="2"></td><td>999.73 Hz</td><td>---</td></tr><tr><td colspan="2"></td><td colspan="2">THD ---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:31:31 DATE: 29.DEC.2018 09:31:31 OFF~ON	Carrier Power 29.11 dBm		Carrier Offset 25.25 Hz		+Peak	-Peak	+Peak/2	RMS	FM 12.506 kHz	-12.997 kHz	12.752 kHz	8.7489 kHz			Mod. Freq.	SINAD			999.73 Hz	---			THD ---	
Carrier Power 29.11 dBm		Carrier Offset 25.25 Hz																									
+Peak	-Peak	+Peak/2	RMS																								
FM 12.506 kHz	-12.997 kHz	12.752 kHz	8.7489 kHz																								
		Mod. Freq.	SINAD																								
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		THD ---																									
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB ATT 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: JPSK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 29.08 dBm</td><td colspan="2">Carrier Offset 37.62 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 20.802 kHz</td><td>-15.197 kHz</td><td>18.0 kHz</td><td>2.2094 kHz</td></tr><tr><td colspan="2"></td><td>Mod. Freq.</td><td>SINAD</td></tr><tr><td colspan="2"></td><td>---</td><td>---</td></tr><tr><td colspan="2"></td><td colspan="2">THD ---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:30:33 DATE: 29.DEC.2018 09:30:33 ON-OFF	Carrier Power 29.08 dBm		Carrier Offset 37.62 Hz		+Peak	-Peak	+Peak/2	RMS	FM 20.802 kHz	-15.197 kHz	18.0 kHz	2.2094 kHz			Mod. Freq.	SINAD			---	---			THD ---	
Carrier Power 29.08 dBm		Carrier Offset 37.62 Hz																									
+Peak	-Peak	+Peak/2	RMS																								
FM 20.802 kHz	-15.197 kHz	18.0 kHz	2.2094 kHz																								
		Mod. Freq.	SINAD																								
		---	---																								
		THD ---																									
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB ATT 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: JPSK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 29.10 dBm</td><td colspan="2">Carrier Offset 26.28 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.659 kHz</td><td>-15.038 kHz</td><td>13.848 kHz</td><td>8.7441 kHz</td></tr><tr><td colspan="2"></td><td>Mod. Freq.</td><td>SINAD</td></tr><tr><td colspan="2"></td><td>1.0194 kHz</td><td>---</td></tr><tr><td colspan="2"></td><td colspan="2">THD ---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 29.12.2018 09:32:04 DATE: 29.DEC.2018 09:32:04 OFF~ON	Carrier Power 29.10 dBm		Carrier Offset 26.28 Hz		+Peak	-Peak	+Peak/2	RMS	FM 12.659 kHz	-15.038 kHz	13.848 kHz	8.7441 kHz			Mod. Freq.	SINAD			1.0194 kHz	---			THD ---	
Carrier Power 29.10 dBm		Carrier Offset 26.28 Hz																									
+Peak	-Peak	+Peak/2	RMS																								
FM 12.659 kHz	-15.038 kHz	13.848 kHz	8.7441 kHz																								
		Mod. Freq.	SINAD																								
		1.0194 kHz	---																								
		THD ---																									

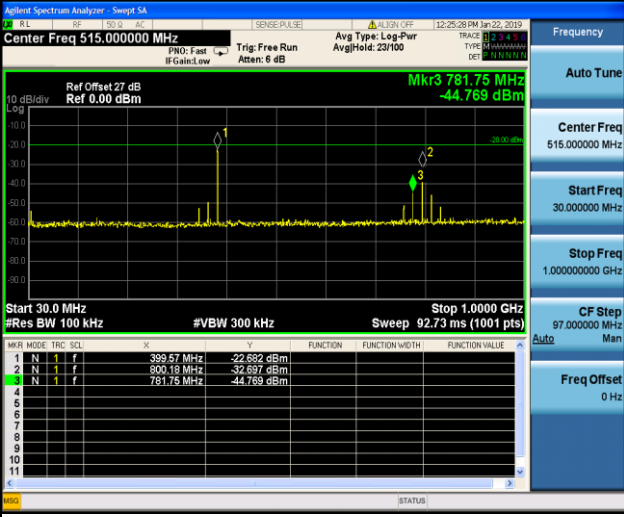
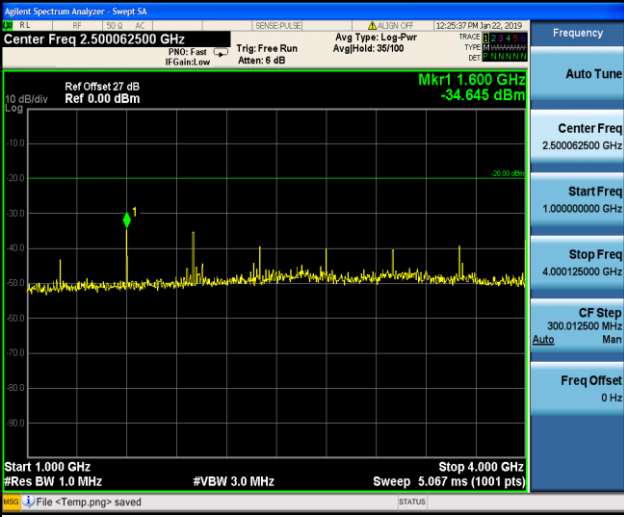
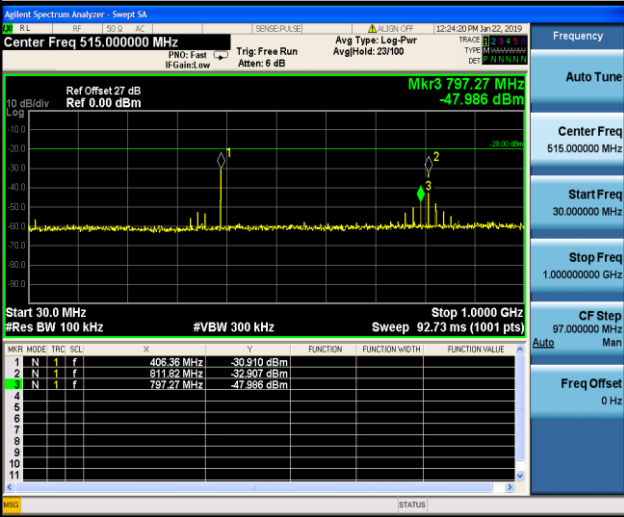


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG (FPG 170MHz) VSG Bypass 1 FM Time Domain 1AP Clw DC Ref0.00 Hz  CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 29.09 dBm Carrier Offset 37.33 Hz +Peak -Peak +Peak/2 RMS Mod. Freq. SINAD THD FM 17.226 kHz -16.31 kHz 16.768 kHz 2.2045 kHz Analog Demod: Waiting for Trigger... Measuring... 28.12.2018 09:31:08 Date: 29.DEC.2018 09:31:07 ON-OFF

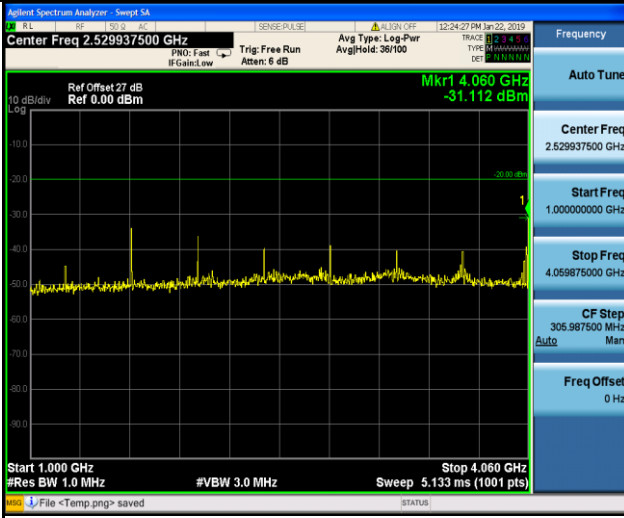
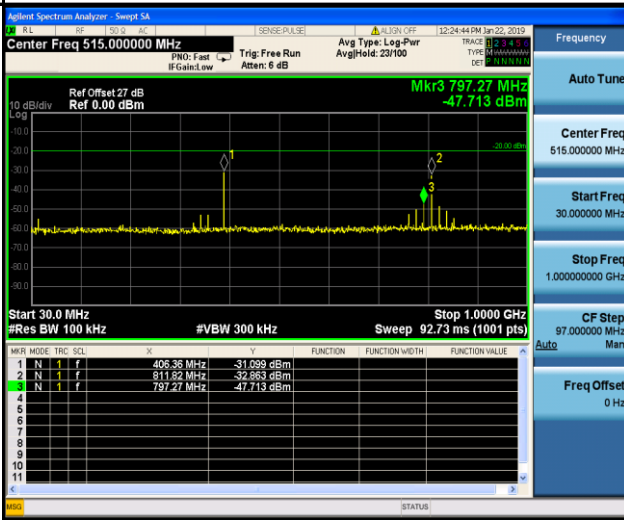
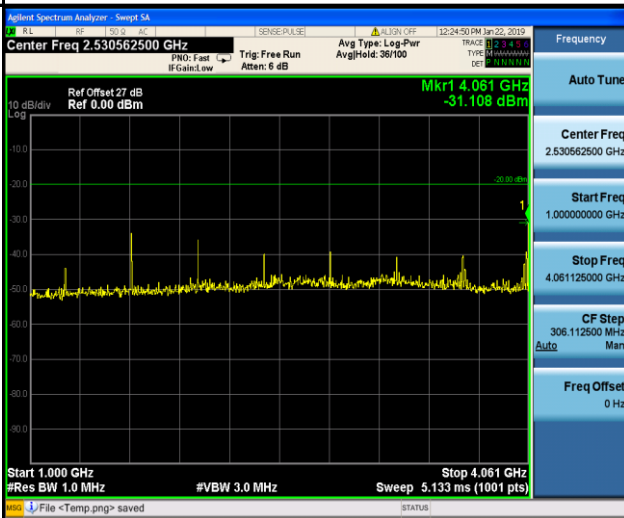


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 781.75 MHz -44.769 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr Mode TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 399.57 MHz -22.892 dBm 2 N 1 f 800.18 MHz -32.697 dBm 3 N 1 f 781.75 MHz -44.769 dBm 4 5 6 7 8 9 10 11 30MHz~1GHz
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.500062500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 1.600 GHz -34.645 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.000 GHz Sweep 5.067 ms (1001 pts) File <Temp.png> saved 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 797.27 MHz -47.986 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr Mode TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 405.36 MHz -30.310 dBm 2 N 1 f 511.52 MHz -32.207 dBm 3 N 1 f 797.27 MHz -47.986 dBm 4 5 6 7 8 9 10 11 30MHz~1GHz

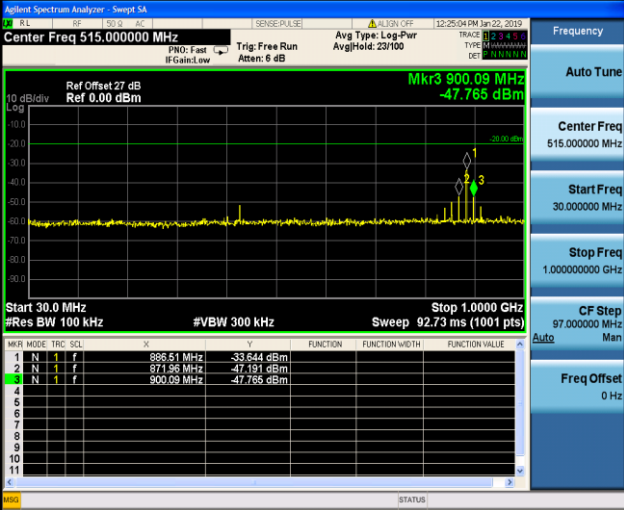
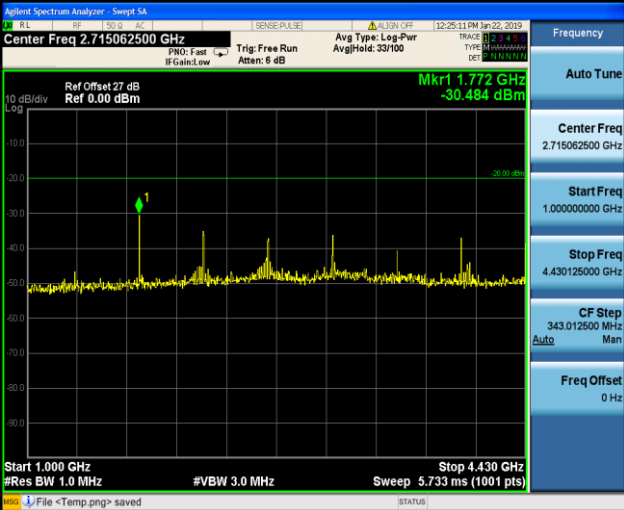
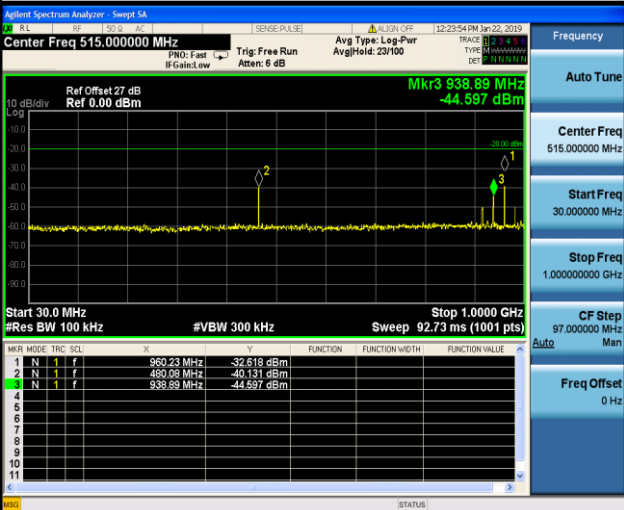


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M2}	 30MHz~1GHz
TX-DNH	4FSK	CH _{M2}	 1GHz~10th Harmonic

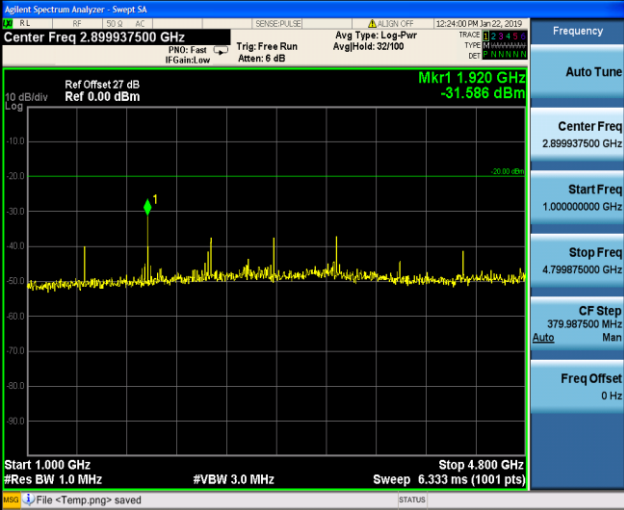
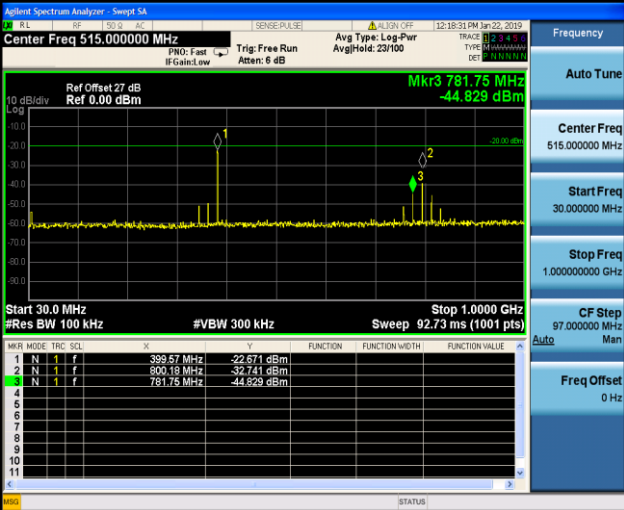


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 30MHz~1GHz
TX-DNH	4FSK	CH _{M3}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 30MHz~1GHz



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	 1GHz~10th Harmonic
TX-ANH	FM	CH _L	 30MHz~1GHz
TX-ANH	FM	CH _L	 1GHz~10th Harmonic

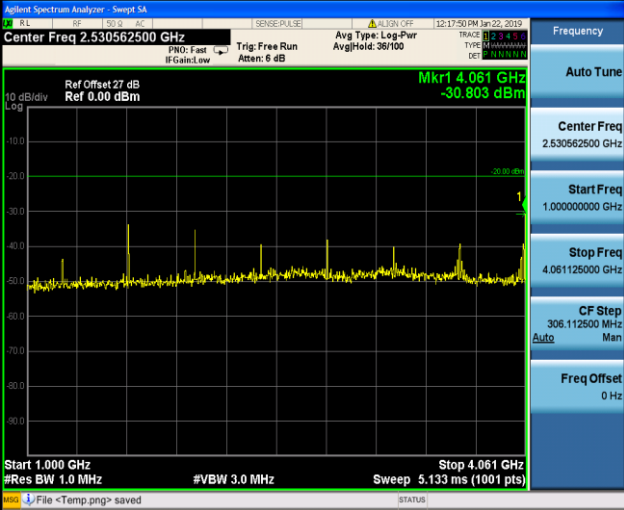
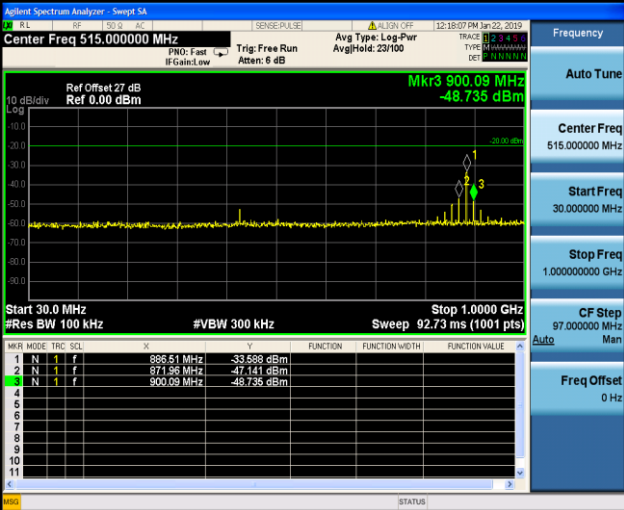
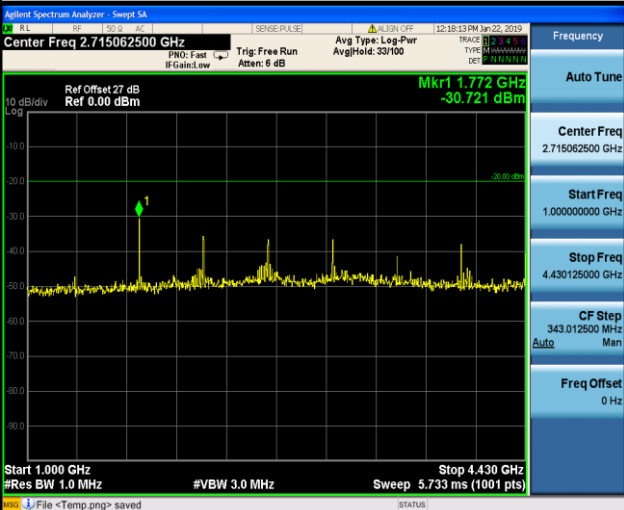


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																								
TX-ANH	FM	CH _{M1}	<table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>F</th><th>F</th><th>F</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>406.36</td><td>MHz</td><td>-30.841</td><td>dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>811.82</td><td>MHz</td><td>-32.724</td><td>dBm</td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>797.27</td><td>MHz</td><td>-48.011</td><td>dBm</td><td></td><td></td></tr></table> 30MHz~1GHz	MKR	MODE	TRC	SCL	F	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	406.36	MHz	-30.841	dBm			2	N	1	f	811.82	MHz	-32.724	dBm			3	N	1	f	797.27	MHz	-48.011	dBm		
MKR	MODE	TRC	SCL	F	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																		
1	N	1	f	406.36	MHz	-30.841	dBm																																				
2	N	1	f	811.82	MHz	-32.724	dBm																																				
3	N	1	f	797.27	MHz	-48.011	dBm																																				
TX-ANH	FM	CH _{M1}	1GHz~10th Harmonic																																								
TX-ANH	FM	CH _{M2}	<table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>F</th><th>F</th><th>F</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>406.36</td><td>MHz</td><td>-31.072</td><td>dBm</td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>811.82</td><td>MHz</td><td>-32.897</td><td>dBm</td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>797.27</td><td>MHz</td><td>-48.242</td><td>dBm</td><td></td><td></td></tr></table> 30MHz~1GHz	MKR	MODE	TRC	SCL	F	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	406.36	MHz	-31.072	dBm			2	N	1	f	811.82	MHz	-32.897	dBm			3	N	1	f	797.27	MHz	-48.242	dBm		
MKR	MODE	TRC	SCL	F	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																		
1	N	1	f	406.36	MHz	-31.072	dBm																																				
2	N	1	f	811.82	MHz	-32.897	dBm																																				
3	N	1	f	797.27	MHz	-48.242	dBm																																				

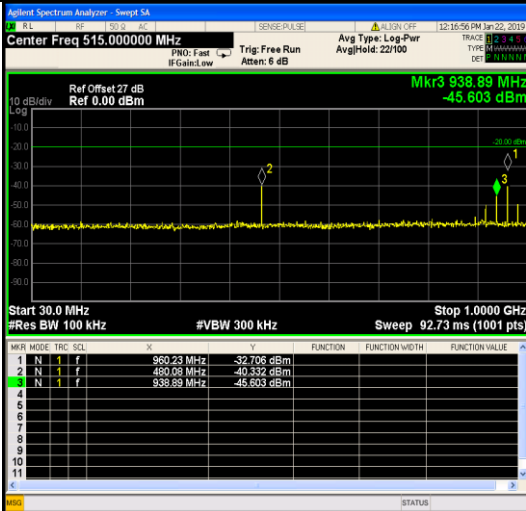
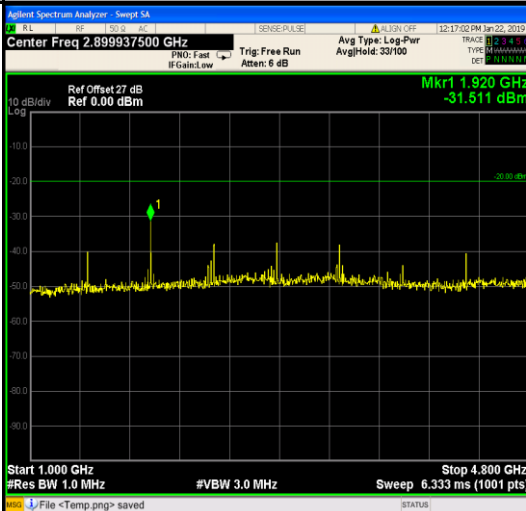


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 1GHz~10th Harmonic
TX-ANH	FM	CH _{M3}	 30MHz~1GHz
TX-ANH	FM	CH _{M3}	 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																	
TX-ANH	FM	CH _H	 <table><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SQL</th><th>F</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>960.23 MHz</td><td></td><td></td><td>-32.708 dBm</td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>480.08 MHz</td><td></td><td></td><td>-40.332 dBm</td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>938.89 MHz</td><td></td><td></td><td>-45.603 dBm</td></tr></table>	MNR	MODE	TRIG	SQL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	960.23 MHz			-32.708 dBm	2	N	1	f	480.08 MHz			-40.332 dBm	3	N	1	f	938.89 MHz			-45.603 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
			MNR	MODE	TRIG	SQL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																										
1	N	1	f	960.23 MHz			-32.708 dBm																													
2	N	1	f	480.08 MHz			-40.332 dBm																													
3	N	1	f	938.89 MHz			-45.603 dBm																													
30MHz~1GHz																																				
TX-ANH	FM	CH _H	 <table><tr><th>MNR</th><th>MODE</th><th>TRIG</th><th>SQL</th><th>F</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>1.920 GHz</td><td></td><td></td><td>-31.511 dBm</td></tr></table>	MNR	MODE	TRIG	SQL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.920 GHz			-31.511 dBm	Frequency Auto Tune Center Freq 2.899937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.799875000 GHz CF Step 379.987500 MHz Auto Man Freq Offset 0 Hz																
			MNR	MODE	TRIG	SQL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																										
1	N	1	f	1.920 GHz			-31.511 dBm																													
1GHz~10th Harmonic																																				

----End of Report----

**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	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH _{M2}	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNH	4FSK	CH _H	35.6	3.63	4.00	-9.2	±20	PASS
TX-DNL	4FSK	CH _L	29.8	0.95	1.00	-4.5	±20	PASS
TX-DNL	4FSK	CH _{M2}	29.9	0.98	1.00	-2.3	±20	PASS
TX-DNL	4FSK	CH _H	29.7	0.93	1.00	-6.7	±20	PASS
TX-ANH	FM	CH _L	35.5	3.55	4.00	-11.3	±20	PASS
TX-ANH	FM	CH _{M2}	35.9	3.89	4.00	-2.7	±20	PASS
TX-ANH	FM	CH _H	35.8	3.80	4.00	-5.0	±20	PASS
TX-ANL	FM	CH _L	29.7	0.93	1.00	-6.7	±20	PASS
TX-ANL	FM	CH _{M2}	29.9	0.98	1.00	-2.3	±20	PASS
TX-ANL	FM	CH _H	29.6	0.91	1.00	-8.8	±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	7.853	9.841	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	8.053	9.808	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.969	9.834	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.851	9.934	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	8.010	10.380	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.833	9.845	≤11.25	PASS
TX-ANH	FM	CH _L	9.996	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M2}	9.997	10.170	≤11.25	PASS
TX-ANH	FM	CH _H	9.997	10.170	≤11.25	PASS
TX-ANL	FM	CH _L	9.991	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M2}	9.996	10.170	≤11.25	PASS
TX-ANL	FM	CH _H	9.997	10.170	≤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 136.012500 MHz Center Freq: 136.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 39.42 dBm Center 136 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.853 kHz Total Power 42.3 dBm Transmit Freq Error -108 Hz OBW Power 99.00 % x dB Bandwidth 9.841 kHz x dB -26.00 dB Frequency Center Freq 136.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 155.012500 MHz Center Freq: 155.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 39.40 dBm Center 155 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 8.053 kHz Total Power 42.4 dBm Transmit Freq Error -112 Hz OBW Power 99.00 % x dB Bandwidth 9.808 kHz x dB -26.00 dB Frequency Center Freq 155.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 173.987500 MHz Center Freq: 173.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 39.71 dBm Center 174 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.969 kHz Total Power 42.1 dBm Transmit Freq Error -72 Hz OBW Power 99.00 % x dB Bandwidth 9.834 kHz x dB -26.00 dB Frequency Center Freq 173.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled