

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 17 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 19.0 29.0 39.0 49.0 Center 400 MHz Span 120 kHz Total Power Ref 36.15 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.13</td><td>(-0.76)</td><td>-100.0</td><td>24.95</td><td>(-11.94)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.56</td><td>(-4.38)</td><td>-12.45 k</td><td>-38.72</td><td>(-5.99)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.80</td><td>(-16.80)</td><td>-13.80 k</td><td>-36.78</td><td>(-16.78)</td><td>13.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></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 400.012500 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	36.13	(-0.76)	-100.0	24.95	(-11.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.56	(-4.38)	-12.45 k	-38.72	(-5.99)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.80	(-16.80)	-13.80 k	-36.78	(-16.78)	13.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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	36.13	(-0.76)	-100.0	24.95	(-11.94)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-38.56	(-4.38)	-12.45 k	-38.72	(-5.99)	12.25 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-36.80	(-16.80)	-13.80 k	-36.78	(-16.78)	13.65 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 17 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 19.0 29.0 39.0 49.0 Center 400 MHz Span 120 kHz Total Power Ref 39.23 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.33</td><td>(-10.56)</td><td>-300.0</td><td>29.05</td><td>(-7.84)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.08</td><td>(-0.90)</td><td>-12.45 k</td><td>-39.03</td><td>(-5.94)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.03</td><td>(-15.03)</td><td>-19.05 k</td><td>-35.40</td><td>(-15.40)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 400.012500 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	26.33	(-10.56)	-300.0	29.05	(-7.84)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.08	(-0.90)	-12.45 k	-39.03	(-5.94)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.03	(-15.03)	-19.05 k	-35.40	(-15.40)	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 >	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	26.33	(-10.56)	-300.0	29.05	(-7.84)	500.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.08	(-0.90)	-12.45 k	-39.03	(-5.94)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.03	(-15.03)	-19.05 k	-35.40	(-15.40)	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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 17 dB Ref 40.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 19.0 29.0 39.0 49.0 Center 435 MHz Span 120 kHz Total Power Ref 35.52 dBm @ 0.125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.52</td><td>(-0.80)</td><td>-100.0</td><td>20.36</td><td>(-15.96)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.18</td><td>(-6.88)</td><td>-12.25 k</td><td>-42.83</td><td>(-7.72)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.50</td><td>(-17.50)</td><td>-15.30 k</td><td>-37.41</td><td>(-17.41)</td><td>15.10 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 435.000000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.52	(-0.80)	-100.0	20.36	(-15.96)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.18	(-6.88)	-12.25 k	-42.83	(-7.72)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.50	(-17.50)	-15.30 k	-37.41	(-17.41)	15.10 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	35.52	(-0.80)	-100.0	20.36	(-15.96)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-40.18	(-6.88)	-12.25 k	-42.83	(-7.72)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-37.50	(-17.50)	-15.30 k	-37.41	(-17.41)	15.10 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	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 10:56:07 AM Jul 31, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 17 dB Ref 40.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 Center 435 MHz Span 120 kHz Total Power Ref 39.16 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>24.71</td><td>(-11.61)</td><td>-400.0</td><td>29.48</td><td>(-6.85)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.51</td><td>(-3.67)</td><td>-12.05 k</td><td>-35.71</td><td>(-2.42)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.60</td><td>(-16.60)</td><td>-13.30 k</td><td>-35.74</td><td>(-15.74)</td><td>12.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.71	(-11.61)	-400.0	29.48	(-6.85)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.51	(-3.67)	-12.05 k	-35.71	(-2.42)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.60	(-16.60)	-13.30 k	-35.74	(-15.74)	12.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	24.71	(-11.61)	-400.0	29.48	(-6.85)	550.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.51	(-3.67)	-12.05 k	-35.71	(-2.42)	12.25 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-36.60	(-16.60)	-13.30 k	-35.74	(-15.74)	12.75 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 10:06:32 AM Jul 31, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 17 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 470 MHz Span 120 kHz Total Power Ref 35.51 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>35.53</td><td>(-1.14)</td><td>-100.0</td><td>19.47</td><td>(-17.19)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.26</td><td>(-3.21)</td><td>-12.40 k</td><td>-37.17</td><td>(-4.58)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.77</td><td>(-17.77)</td><td>-12.75 k</td><td>-37.60</td><td>(-17.60)</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 469.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.53	(-1.14)	-100.0	19.47	(-17.19)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.26	(-3.21)	-12.40 k	-37.17	(-4.58)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.77	(-17.77)	-12.75 k	-37.60	(-17.60)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	35.53	(-1.14)	-100.0	19.47	(-17.19)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-37.26	(-3.21)	-12.40 k	-37.17	(-4.58)	12.20 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-37.77	(-17.77)	-12.75 k	-37.60	(-17.60)	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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 10:07:05 AM Jul 31, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 17 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 470 MHz Span 120 kHz Total Power Ref 38.24 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>26.60</td><td>(-10.06)</td><td>-650.0</td><td>27.74</td><td>(-8.92)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.00</td><td>(-2.40)</td><td>-12.20 k</td><td>-36.58</td><td>(-3.26)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.02</td><td>(-16.02)</td><td>-12.55 k</td><td>-36.33</td><td>(-16.33)</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 469.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.60	(-10.06)	-650.0	27.74	(-8.92)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.00	(-2.40)	-12.20 k	-36.58	(-3.26)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.02	(-16.02)	-12.55 k	-36.33	(-16.33)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	26.60	(-10.06)	-650.0	27.74	(-8.92)	450.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.00	(-2.40)	-12.20 k	-36.58	(-3.26)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-36.02	(-16.02)	-12.55 k	-36.33	(-16.33)	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	—	(—)	—	—	(—)	—																																																										

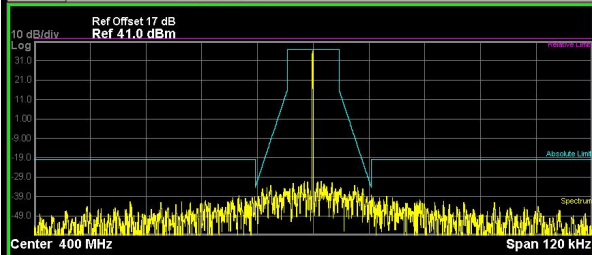
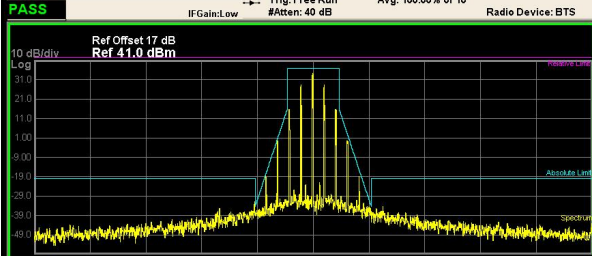
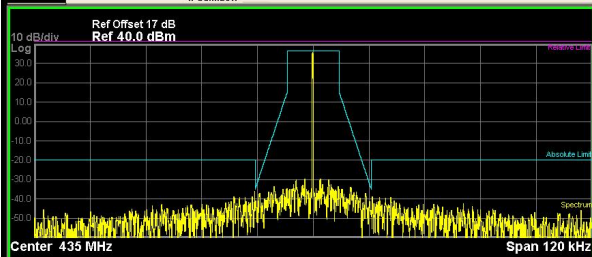
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 47.89 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>47.32</td><td>(-0.69)</td><td>-50.00</td><td>47.18</td><td>(-0.83)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-28.85</td><td>(-6.51)</td><td>-12.35 k</td><td>-28.88</td><td>(-6.90)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.33</td><td>(-6.33)</td><td>-15.20 k</td><td>-26.30</td><td>(-6.30)</td><td>15.10 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> msa File <MASK D.state> recalled 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	47.32	(-0.69)	-50.00	47.18	(-0.83)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-28.85	(-6.51)	-12.35 k	-28.88	(-6.90)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.33	(-6.33)	-15.20 k	-26.30	(-6.30)	15.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	47.32	(-0.69)	-50.00	47.18	(-0.83)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-28.85	(-6.51)	-12.35 k	-28.88	(-6.90)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-26.33	(-6.33)	-15.20 k	-26.30	(-6.30)	15.10 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 47.32 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>45.50</td><td>(-2.50)</td><td>-50.00</td><td>45.20</td><td>(-2.81)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.793</td><td>(-2.17)</td><td>-10.05 k</td><td>-23.99</td><td>(-0.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.20</td><td>(-3.20)</td><td>-12.55 k</td><td>-23.17</td><td>(-3.17)</td><td>15.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> msa File <Temp.png> saved 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	45.50	(-2.50)	-50.00	45.20	(-2.81)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-7.793	(-2.17)	-10.05 k	-23.99	(-0.56)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.20	(-3.20)	-12.55 k	-23.17	(-3.17)	15.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	45.50	(-2.50)	-50.00	45.20	(-2.81)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-7.793	(-2.17)	-10.05 k	-23.99	(-0.56)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-23.20	(-3.20)	-12.55 k	-23.17	(-3.17)	15.30 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	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 51.0 dBm Center 435 MHz Span 120 kHz Total Power Ref 47.02 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>46.42</td><td>(-0.77)</td><td>-100.0</td><td>20.18</td><td>(-27.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.77</td><td>(-8.70)</td><td>-12.20 k</td><td>-31.02</td><td>(-6.77)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.24</td><td>(-6.24)</td><td>-17.95 k</td><td>-26.13</td><td>(-6.13)</td><td>17.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> msa File <MASK D.state> recalled Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	46.42	(-0.77)	-100.0	20.18	(-27.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.77	(-8.70)	-12.20 k	-31.02	(-6.77)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.24	(-6.24)	-17.95 k	-26.13	(-6.13)	17.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	46.42	(-0.77)	-100.0	20.18	(-27.00)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-30.77	(-8.70)	-12.20 k	-31.02	(-6.77)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-26.24	(-6.24)	-17.95 k	-26.13	(-6.13)	17.75 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:00:09 PM J1/30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 51.0 dBm 10 dB/div Log 40.0 31.0 21.0 11.0 1.00 9.00 19.0 29.0 39.0 Center 435 MHz Span 120 kHz Total Power Ref 46.88 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > 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>44.61</td><td>(-2.57)</td><td>-150.0</td><td>38.58</td><td>(-8.61)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>9.636</td><td>(-1.37)</td><td>-7.650 k</td><td>-23.75</td><td>(-0.59)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.68</td><td>(-4.68)</td><td>-12.60 k</td><td>-25.58</td><td>(-5.58)</td><td>13.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> msg: File <Temp.png> saved STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:31 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.38 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>47.13</td><td>(-0.77)</td><td>-150.0</td><td>5.045</td><td>(-42.85)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.89</td><td>(-2.35)</td><td>-12.50 k</td><td>-25.76</td><td>(-4.04)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.79</td><td>(-4.79)</td><td>-14.85 k</td><td>-24.72</td><td>(-4.72)</td><td>14.60 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> msg: File <MASK D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:53 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.45 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>45.31</td><td>(-2.59)</td><td>-150.0</td><td>39.33</td><td>(-8.57)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.751</td><td>(-1.30)</td><td>-10.15 k</td><td>-24.74</td><td>(-2.29)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.77</td><td>(-2.77)</td><td>-14.50 k</td><td>-21.94</td><td>(-1.94)</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> msg: Alignment Completed STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr></td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.61	(-2.57)	-150.0	38.58	(-8.61)	2.350 k	5.625 kHz	12.50 kHz	100.0 Hz	9.636	(-1.37)	-7.650 k	-23.75	(-0.59)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-24.68	(-4.68)	-12.60 k	-25.58	(-5.58)	13.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:31 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.38 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>47.13</td><td>(-0.77)</td><td>-150.0</td><td>5.045</td><td>(-42.85)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.89</td><td>(-2.35)</td><td>-12.50 k</td><td>-25.76</td><td>(-4.04)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.79</td><td>(-4.79)</td><td>-14.85 k</td><td>-24.72</td><td>(-4.72)</td><td>14.60 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> msg: File <MASK D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:53 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.45 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>45.31</td><td>(-2.59)</td><td>-150.0</td><td>39.33</td><td>(-8.57)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.751</td><td>(-1.30)</td><td>-10.15 k</td><td>-24.74</td><td>(-2.29)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.77</td><td>(-2.77)</td><td>-14.50 k</td><td>-21.94</td><td>(-1.94)</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> msg: Alignment Completed STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	47.13	(-0.77)	-150.0	5.045	(-42.85)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-25.89	(-2.35)	-12.50 k	-25.76	(-4.04)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-24.79	(-4.79)	-14.85 k	-24.72	(-4.72)	14.60 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	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:53 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.45 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>45.31</td><td>(-2.59)</td><td>-150.0</td><td>39.33</td><td>(-8.57)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.751</td><td>(-1.30)</td><td>-10.15 k</td><td>-24.74</td><td>(-2.29)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.77</td><td>(-2.77)</td><td>-14.50 k</td><td>-21.94</td><td>(-1.94)</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> msg: Alignment Completed STATUS Frequency Center Freq 469.987500 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	45.31	(-2.59)	-150.0	39.33	(-8.57)	2.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-7.751	(-1.30)	-10.15 k	-24.74	(-2.29)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.77	(-2.77)	-14.50 k	-21.94	(-1.94)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																																																																																																																																																																
0.0 Hz	5.625 kHz	100.0 Hz	44.61	(-2.57)	-150.0	38.58	(-8.61)	2.350 k																																																																																																																																																																																																
5.625 kHz	12.50 kHz	100.0 Hz	9.636	(-1.37)	-7.650 k	-23.75	(-0.59)	12.35 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-24.68	(-4.68)	-12.60 k	-25.58	(-5.58)	13.60 k																																																																																																																																																																																																
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:31 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.38 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>47.13</td><td>(-0.77)</td><td>-150.0</td><td>5.045</td><td>(-42.85)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.89</td><td>(-2.35)</td><td>-12.50 k</td><td>-25.76</td><td>(-4.04)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-24.79</td><td>(-4.79)</td><td>-14.85 k</td><td>-24.72</td><td>(-4.72)</td><td>14.60 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> msg: File <MASK D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:53 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.45 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>45.31</td><td>(-2.59)</td><td>-150.0</td><td>39.33</td><td>(-8.57)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.751</td><td>(-1.30)</td><td>-10.15 k</td><td>-24.74</td><td>(-2.29)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.77</td><td>(-2.77)</td><td>-14.50 k</td><td>-21.94</td><td>(-1.94)</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> msg: Alignment Completed STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz </td></tr>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	47.13	(-0.77)	-150.0	5.045	(-42.85)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-25.89	(-2.35)	-12.50 k	-25.76	(-4.04)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-24.79	(-4.79)	-14.85 k	-24.72	(-4.72)	14.60 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	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:53 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.45 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>45.31</td><td>(-2.59)</td><td>-150.0</td><td>39.33</td><td>(-8.57)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.751</td><td>(-1.30)</td><td>-10.15 k</td><td>-24.74</td><td>(-2.29)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.77</td><td>(-2.77)</td><td>-14.50 k</td><td>-21.94</td><td>(-1.94)</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> msg: Alignment Completed STATUS Frequency Center Freq 469.987500 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	45.31	(-2.59)	-150.0	39.33	(-8.57)	2.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-7.751	(-1.30)	-10.15 k	-24.74	(-2.29)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.77	(-2.77)	-14.50 k	-21.94	(-1.94)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																																																																																																																																																																
0.0 Hz	5.625 kHz	100.0 Hz	47.13	(-0.77)	-150.0	5.045	(-42.85)	0.0																																																																																																																																																																																																
5.625 kHz	12.50 kHz	100.0 Hz	-25.89	(-2.35)	-12.50 k	-25.76	(-4.04)	12.25 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-24.79	(-4.79)	-14.85 k	-24.72	(-4.72)	14.60 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	—	(—)	—	—	(—)	—																																																																																																																																																																																																
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 Hz AC SENSE-PULSE ALIGN-AUTO 02:02:53 PM J1/30, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 22 dB Ref 52.0 dBm 10 dB/div Log 42.0 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 Center 470 MHz Span 120 kHz Total Power Ref 47.45 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>45.31</td><td>(-2.59)</td><td>-150.0</td><td>39.33</td><td>(-8.57)</td><td>2.350 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-7.751</td><td>(-1.30)</td><td>-10.15 k</td><td>-24.74</td><td>(-2.29)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.77</td><td>(-2.77)</td><td>-14.50 k</td><td>-21.94</td><td>(-1.94)</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> msg: Alignment Completed STATUS Frequency Center Freq 469.987500 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	45.31	(-2.59)	-150.0	39.33	(-8.57)	2.350 k	5.625 kHz	12.50 kHz	100.0 Hz	-7.751	(-1.30)	-10.15 k	-24.74	(-2.29)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.77	(-2.77)	-14.50 k	-21.94	(-1.94)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																																																																																																																																																																
0.0 Hz	5.625 kHz	100.0 Hz	45.31	(-2.59)	-150.0	39.33	(-8.57)	2.350 k																																																																																																																																																																																																
5.625 kHz	12.50 kHz	100.0 Hz	-7.751	(-1.30)	-10.15 k	-24.74	(-2.29)	12.35 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-22.77	(-2.77)	-14.50 k	-21.94	(-1.94)	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	—	(—)	—	—	(—)	—																																																																																																																																																																																																

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 09:50:08 AM Jul 31, 2024 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 17 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 36.15 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.09</td><td>(-0.84)</td><td>-100.0</td><td>26.48</td><td>(-10.45)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.30</td><td>(-7.88)</td><td>-12.35 k</td><td>-38.33</td><td>(-3.82)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.74</td><td>(-18.74)</td><td>-15.95 k</td><td>-38.79</td><td>(-18.79)</td><td>15.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> msa File <MASK D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz 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	36.09	(-0.84)	-100.0	26.48	(-10.45)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.30	(-7.88)	-12.35 k	-38.33	(-3.82)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.74	(-18.74)	-15.95 k	-38.79	(-18.79)	15.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	36.09	(-0.84)	-100.0	26.48	(-10.45)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.30	(-7.88)	-12.35 k	-38.33	(-3.82)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-38.74	(-18.74)	-15.95 k	-38.79	(-18.79)	15.80 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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 09:50:30 AM Jul 31, 2024 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 17 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 36.20 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.33</td><td>(-2.59)</td><td>-100.0</td><td>28.26</td><td>(-8.66)</td><td>2.400 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-0.718</td><td>(-1.83)</td><td>-7.600 k</td><td>-35.25</td><td>(-1.46)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.99</td><td>(-11.99)</td><td>-12.60 k</td><td>-34.41</td><td>(-14.41)</td><td>15.10 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> msa File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz 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	34.33	(-2.59)	-100.0	28.26	(-8.66)	2.400 k	5.625 kHz	12.50 kHz	100.0 Hz	-0.718	(-1.83)	-7.600 k	-35.25	(-1.46)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.99	(-11.99)	-12.60 k	-34.41	(-14.41)	15.10 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	34.33	(-2.59)	-100.0	28.26	(-8.66)	2.400 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-0.718	(-1.83)	-7.600 k	-35.25	(-1.46)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-31.99	(-11.99)	-12.60 k	-34.41	(-14.41)	15.10 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 09:51:15 AM Jul 31, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 17 dB Ref 40.0 dBm  Center 435 MHz Span 120 kHz Total Power Ref 35.61 dBm @ 0.125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.61</td><td>(-0.77)</td><td>-100.0</td><td>21.12</td><td>(-15.26)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.00</td><td>(-7.04)</td><td>-12.35 k</td><td>-41.33</td><td>(-8.46)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.10</td><td>(-16.10)</td><td>-12.55 k</td><td>-38.80</td><td>(-18.80)</td><td>12.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> msa File <MASK D.state> recalled STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz 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	35.61	(-0.77)	-100.0	21.12	(-15.26)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.00	(-7.04)	-12.35 k	-41.33	(-8.46)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.10	(-16.10)	-12.55 k	-38.80	(-18.80)	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	—	(—)	—	—	(—)	—
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	35.61	(-0.77)	-100.0	21.12	(-15.26)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.00	(-7.04)	-12.35 k	-41.33	(-8.46)	12.20 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-36.10	(-16.10)	-12.55 k	-38.80	(-18.80)	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	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

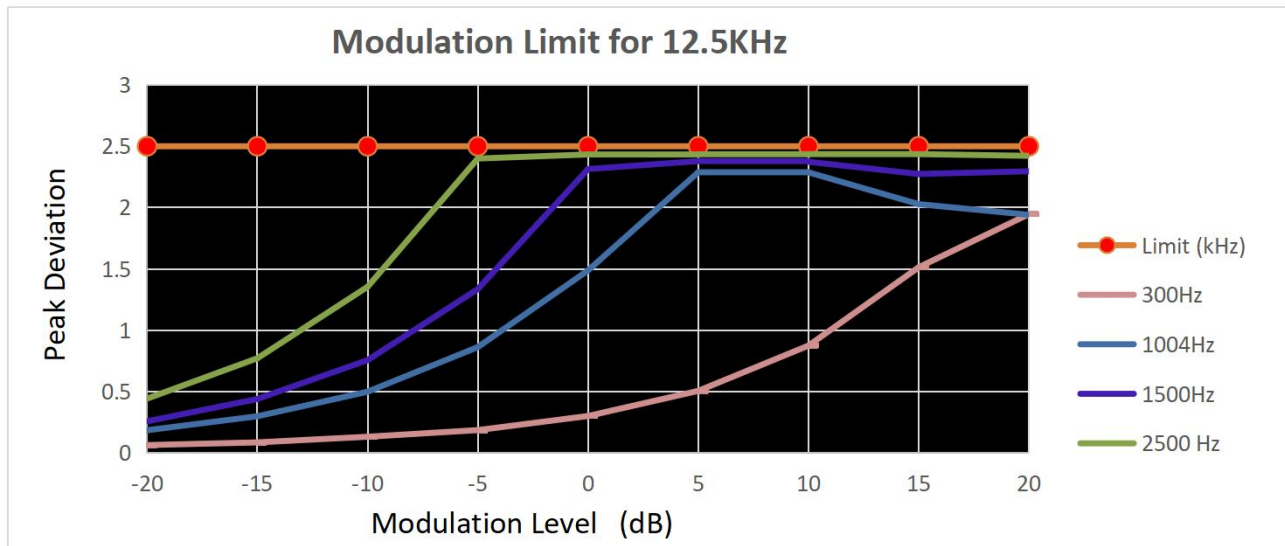
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN AUTO 09:51:37 AM J131, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 17 dB Ref 40.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 Mask Reference Line Absolute Limit Spectrum Center 435 MHz Span 120 kHz Total Power Ref 35.61 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>33.81</td><td>(-2.57)</td><td>-100.0</td><td>27.77</td><td>(-8.61)</td><td>2.400 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-1.254</td><td>(-1.82)</td><td>-7.600 k</td><td>-37.51</td><td>(-2.82)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.99</td><td>(-13.99)</td><td>-12.60 k</td><td>-35.85</td><td>(-15.85)</td><td>13.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.81	(-2.57)	-100.0	27.77	(-8.61)	2.400 k	5.625 kHz	12.50 kHz	100.0 Hz	-1.254	(-1.82)	-7.600 k	-37.51	(-2.82)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.99	(-13.99)	-12.60 k	-35.85	(-15.85)	13.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	33.81	(-2.57)	-100.0	27.77	(-8.61)	2.400 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-1.254	(-1.82)	-7.600 k	-37.51	(-2.82)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-33.99	(-13.99)	-12.60 k	-35.85	(-15.85)	13.85 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN AUTO 09:52:36 AM J131, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 17 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Mask Reference Line Absolute Limit Spectrum Center 470 MHz Span 120 kHz Total Power Ref 35.94 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>35.89</td><td>(-0.79)</td><td>-100.0</td><td>12.86</td><td>(-23.82)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.00</td><td>(-3.24)</td><td>-12.50 k</td><td>-38.08</td><td>(-4.78)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.08</td><td>(-18.08)</td><td>-13.75 k</td><td>-38.11</td><td>(-18.11)</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> MSO File <MASK D state> recalled STATUS Frequency Center Freq 469.987500 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	35.89	(-0.79)	-100.0	12.86	(-23.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.00	(-3.24)	-12.50 k	-38.08	(-4.78)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.08	(-18.08)	-13.75 k	-38.11	(-18.11)	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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	35.89	(-0.79)	-100.0	12.86	(-23.82)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-38.00	(-3.24)	-12.50 k	-38.08	(-4.78)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-38.08	(-18.08)	-13.75 k	-38.11	(-18.11)	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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN AUTO 09:52:48 AM J131, 2024 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 17 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Mask Reference Line Absolute Limit Spectrum Center 470 MHz Span 120 kHz Total Power Ref 36.34 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>34.05</td><td>(-2.63)</td><td>-100.0</td><td>28.06</td><td>(-8.62)</td><td>2.400 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-0.847</td><td>(-1.35)</td><td>-7.650 k</td><td>-34.47</td><td>(-0.45)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.07</td><td>(-15.07)</td><td>-12.60 k</td><td>-35.80</td><td>(-15.80)</td><td>13.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 469.987500 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	34.05	(-2.63)	-100.0	28.06	(-8.62)	2.400 k	5.625 kHz	12.50 kHz	100.0 Hz	-0.847	(-1.35)	-7.650 k	-34.47	(-0.45)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.07	(-15.07)	-12.60 k	-35.80	(-15.80)	13.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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	34.05	(-2.63)	-100.0	28.06	(-8.62)	2.400 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-0.847	(-1.35)	-7.650 k	-34.47	(-0.45)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.07	(-15.07)	-12.60 k	-35.80	(-15.80)	13.65 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _M	-20	0.063	0.184	0.257	0.442	2.5	PASS
TX-ANH	FM	CH _M	-15	0.085	0.298	0.439	0.771	2.5	PASS
TX-ANH	FM	CH _M	-10	0.131	0.498	0.756	1.354	2.5	PASS
TX-ANH	FM	CH _M	-5	0.185	0.862	1.335	2.400	2.5	PASS
TX-ANH	FM	CH _M	0	0.300	1.487	2.314	2.433	2.5	PASS
TX-ANH	FM	CH _M	5	0.505	2.288	2.379	2.435	2.5	PASS
TX-ANH	FM	CH _M	10	0.874	2.287	2.373	2.436	2.5	PASS
TX-ANH	FM	CH _M	15	1.513	2.028	2.274	2.436	2.5	PASS
TX-ANH	FM	CH _M	20	1.946	1.941	2.296	2.422	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

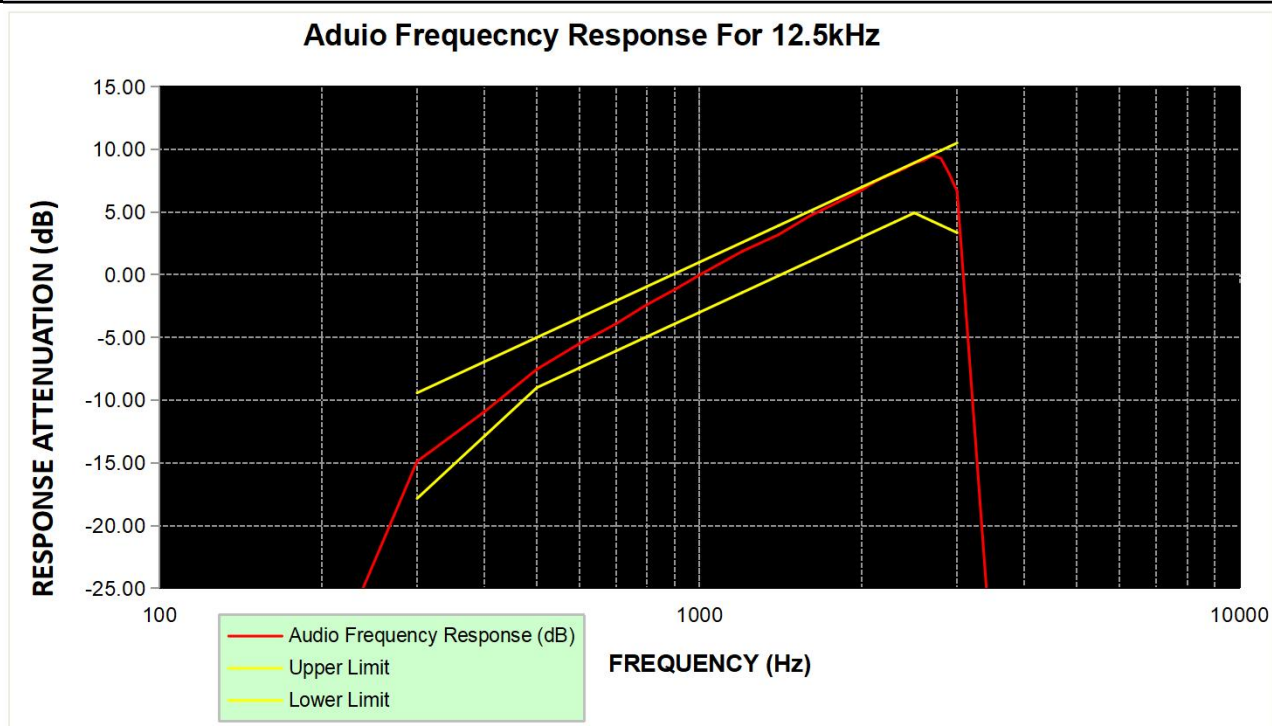


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-32.87			PASS
TX-ANH	FM	CH _M	200	-32.68			PASS
TX-ANH	FM	CH _M	300	-14.89	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-10.92	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-7.53	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-5.48	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.92	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-2.38	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-1.18	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	-0.02	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.87	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	3.19	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	4.69	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	5.77	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	6.77	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	7.35	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	7.78	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	8.13	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	8.49	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	8.91	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	9.11	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	9.51	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	9.28	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	8.06	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	6.65	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	-32.48			PASS
TX-ANH	FM	CH _M	4000	-32.70			PASS
TX-ANH	FM	CH _M	4500	-32.92			PASS
TX-ANH	FM	CH _M	5000	-32.64			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	-30	0.109	0.102	0.097	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.108	0.102	0.099	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.111	0.103	0.104	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.106	0.104	0.102	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.102	0.103	0.103	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.101	0.095	0.096	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.107	0.099	0.098	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.104	0.099	0.097	±5.0	PASS
TX-DNH	4FSK	V _N	50	0.111	0.100	0.100	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.023	0.025	0.019	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.024	0.023	0.019	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.022	0.025	0.019	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.023	0.025	0.019	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.023	0.025	0.019	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.022	0.023	0.018	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.022	0.024	0.020	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.024	0.024	0.018	±5.0	PASS
TX-DNL	4FSK	V _N	50	0.022	0.024	0.020	±5.0	PASS
TX-ANH	FM	V _N	-30	0.425	0.420	0.443	±5.0	PASS
TX-ANH	FM	V _N	-20	0.412	0.428	0.418	±5.0	PASS
TX-ANH	FM	V _N	-10	0.412	0.415	0.435	±5.0	PASS
TX-ANH	FM	V _N	0	0.415	0.430	0.413	±5.0	PASS
TX-ANH	FM	V _N	10	0.426	0.453	0.423	±5.0	PASS
TX-ANH	FM	V _N	20	0.395	0.414	0.411	±5.0	PASS
TX-ANH	FM	V _N	30	0.399	0.453	0.433	±5.0	PASS
TX-ANH	FM	V _N	40	0.430	0.423	0.427	±5.0	PASS
TX-ANH	FM	V _N	50	0.401	0.418	0.448	±5.0	PASS
TX-ANL	FM	V _N	-30	0.408	0.436	0.446	±5.0	PASS
TX-ANL	FM	V _N	-20	0.438	0.429	0.450	±5.0	PASS
TX-ANL	FM	V _N	-10	0.401	0.425	0.424	±5.0	PASS
TX-ANL	FM	V _N	0	0.403	0.414	0.432	±5.0	PASS
TX-ANL	FM	V _N	10	0.423	0.431	0.453	±5.0	PASS
TX-ANL	FM	V _N	20	0.398	0.409	0.419	±5.0	PASS
TX-ANL	FM	V _N	30	0.408	0.433	0.447	±5.0	PASS
TX-ANL	FM	V _N	40	0.426	0.410	0.442	±5.0	PASS
TX-ANL	FM	V _N	50	0.408	0.443	0.432	±5.0	PASS

Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	T _N	0.101	0.095	0.096	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.102	0.096	0.097	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.103	0.099	0.097	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.022	0.023	0.018	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.022	0.023	0.018	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.023	0.023	0.019	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.395	0.414	0.411	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.401	0.414	0.418	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.415	0.436	0.414	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.398	0.409	0.419	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.398	0.417	0.426	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.409	0.431	0.428	±5.0	PASS

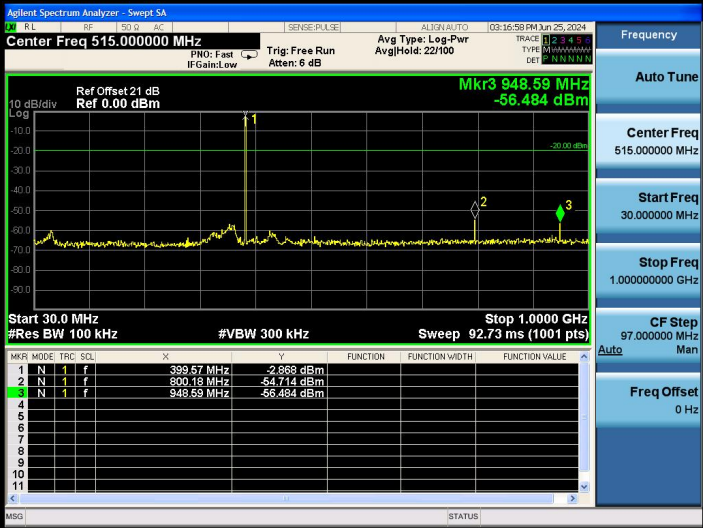
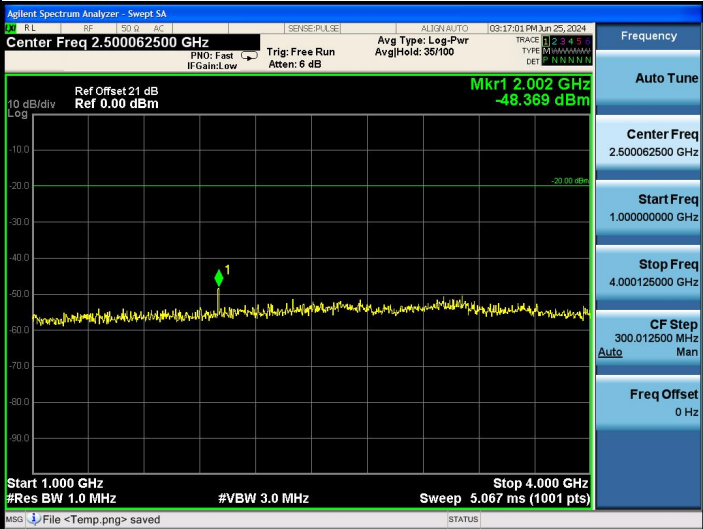
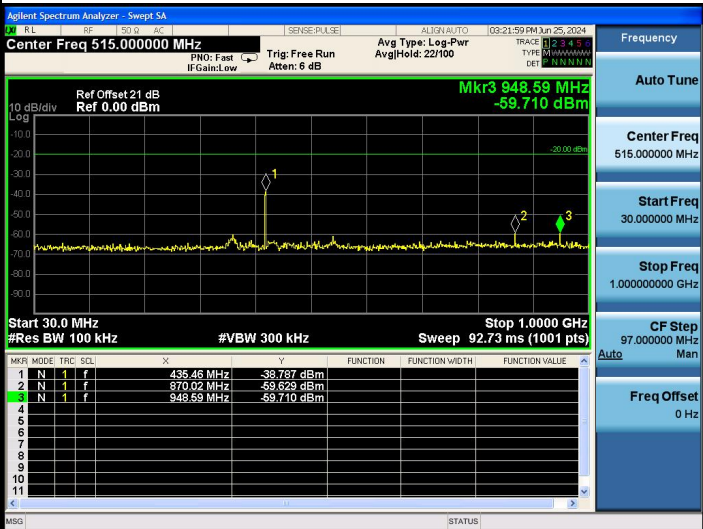
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFPX (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 41.05 dBm Carrier Offset 116.05 Hz FM +Peak 14.55 kHz -Peak -13.638 kHz +Peak/2 14.094 kHz RMS 2.7044 kHz Mod. Freq. SINAD THD Analog Demod: Waiting for Trigger... Measuring... 26.06.2024 11:06:11 OFF~ON
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFPX (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 41.09 dBm Carrier Offset 125.64 Hz FM +Peak 14.198 kHz -Peak -13.541 kHz +Peak/2 13.87 kHz RMS 2.5231 kHz Mod. Freq. SINAD THD Analog Demod: Waiting for Trigger... Measuring... 26.06.2024 11:07:08 ON-OFF
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFPX (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 41.04 dBm Carrier Offset 114.06 Hz FM +Peak 16.062 kHz -Peak -14.206 kHz +Peak/2 15.134 kHz RMS 2.7256 kHz Mod. Freq. SINAD THD Analog Demod: Waiting for Trigger... Measuring... 26.06.2024 11:05:18 OFF~ON

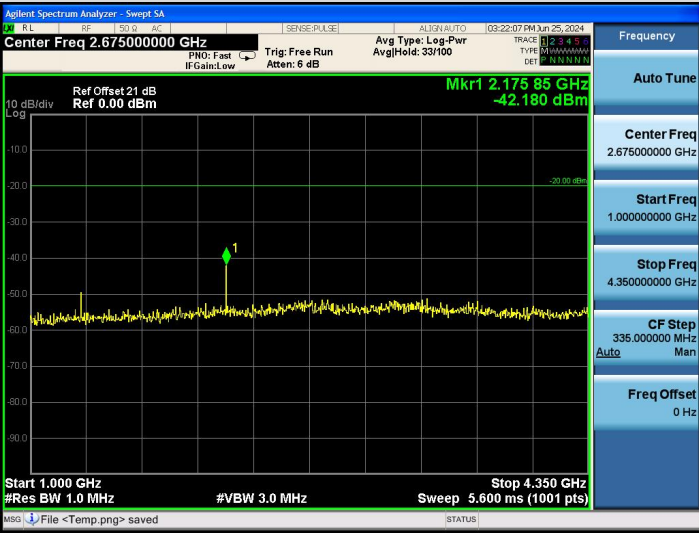
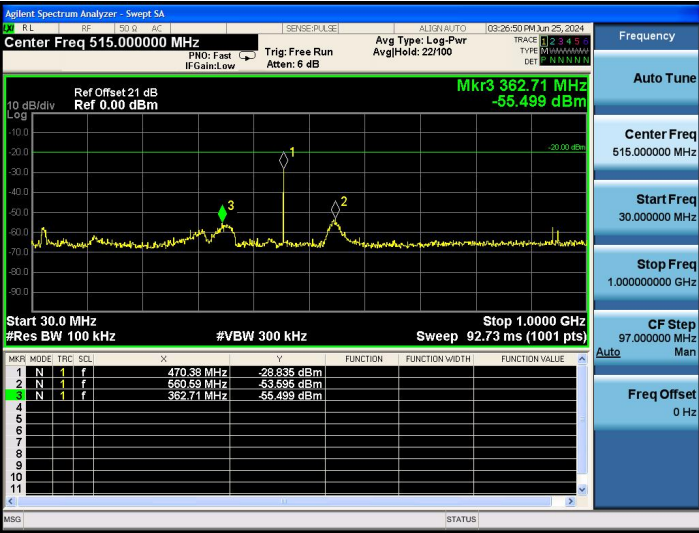
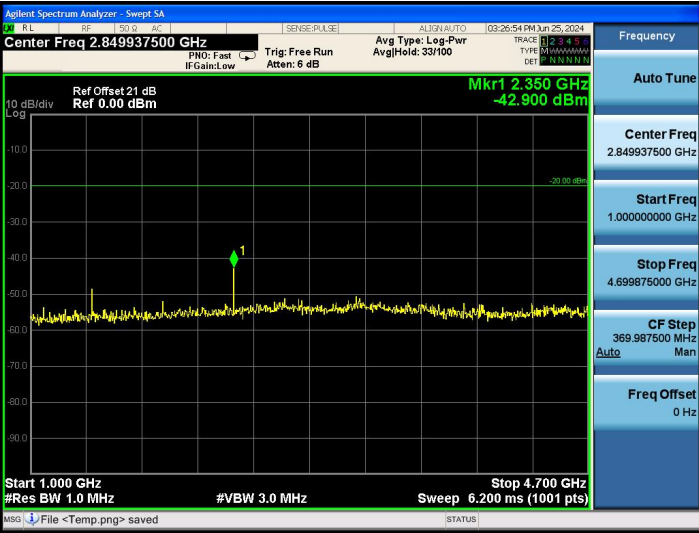
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 20.50 dB Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG: (FEX 17MHz) YIG Bypass 1 FM Time Domain 1AP Clrw DC, ReR0.00 Hz CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td></td><td>Carrier Power 41.00 dBm</td><td>Carrier Offset 108.32 Hz</td></tr><tr><td></td><td>+Peak 14.003 kHz</td><td>-Peak -14.264 kHz</td></tr><tr><td></td><td>+Peak/2 14.133 kHz</td><td>RMS 2.5332 kHz</td></tr><tr><td>FM</td><td></td><td>Mod. Freq. --- SINAD --- THD ---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 26.06.2024 11:06:47 Date: 26 JUN 2024 11:06:48 ON-OFF		Carrier Power 41.00 dBm	Carrier Offset 108.32 Hz		+Peak 14.003 kHz	-Peak -14.264 kHz		+Peak/2 14.133 kHz	RMS 2.5332 kHz	FM		Mod. Freq. --- SINAD --- THD ---
	Carrier Power 41.00 dBm	Carrier Offset 108.32 Hz													
	+Peak 14.003 kHz	-Peak -14.264 kHz													
	+Peak/2 14.133 kHz	RMS 2.5332 kHz													
FM		Mod. Freq. --- SINAD --- THD ---													

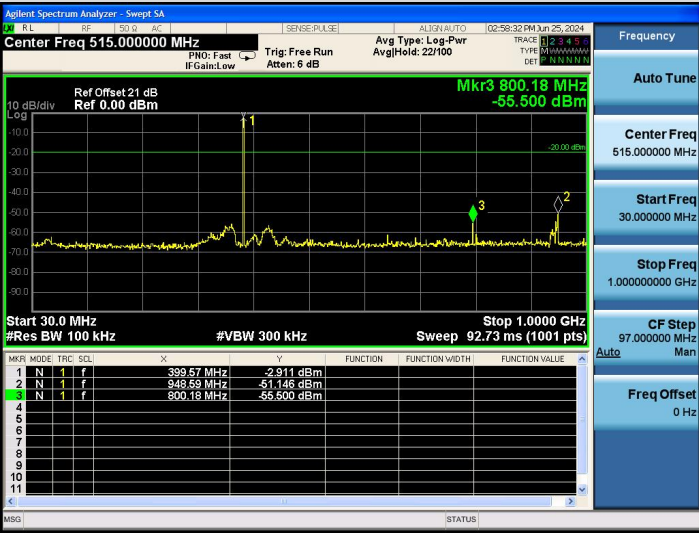
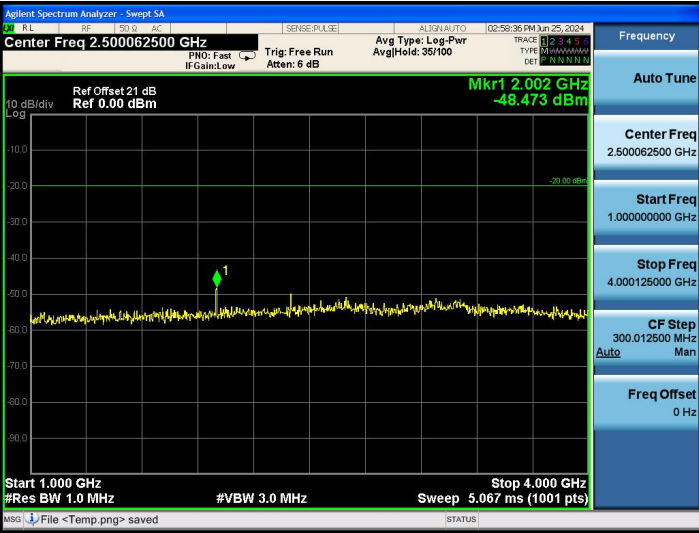
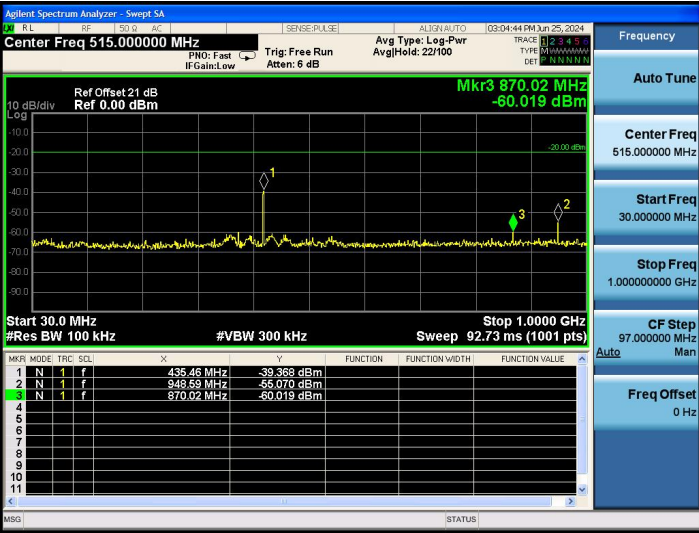
Appendix I:Spurious Emission On Antenna Port

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

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.675000000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 2.175 85 GHz -42.180 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.600 ms (1001 pts) 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 362.71 MHz -55.499 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) 30MHz~1GHz
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.849937500 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 2.350 GHz -42.900 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts) 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 _M	 30MHz~1GHz

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																								
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Swept SA Center Freq 2.675000000 GHz Ref Offset 21 dB Ref 0.00 dBm 10 dB/div Log Mkr1 2.175 85 GHz -42.054 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.600 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.675000000 GHz Start Freq 1.000000000 GHz Stop Freq 4.350000000 GHz CF Step 335.000000 MHz Auto Freq Offset 0 Hz 1GHz~10th Harmonic																																																																																																																								
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm 10 dB/div Log Mkr3 375.32 MHz -55.320 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SCN</th><th>F</th><th>FREQ</th><th>POWER</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></td><td>470.38 MHz</td><td>-28.779 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td></td><td>555.74 MHz</td><td>-53.365 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td></td><td>375.32 MHz</td><td>-55.320 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz 30MHz~1GHz	MKR	MODE	TRIG	SCN	F	FREQ	POWER	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f		470.38 MHz	-28.779 dBm				2	N	1	f		555.74 MHz	-53.365 dBm				3	N	1	f		375.32 MHz	-55.320 dBm				4										5										6										7										8										9										10										11									
MKR	MODE	TRIG	SCN	F	FREQ	POWER	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																																		
1	N	1	f		470.38 MHz	-28.779 dBm																																																																																																																					
2	N	1	f		555.74 MHz	-53.365 dBm																																																																																																																					
3	N	1	f		375.32 MHz	-55.320 dBm																																																																																																																					
4																																																																																																																											
5																																																																																																																											
6																																																																																																																											
7																																																																																																																											
8																																																																																																																											
9																																																																																																																											
10																																																																																																																											
11																																																																																																																											
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 2.849937500 GHz Ref Offset 21 dB Ref 0.00 dBm 10 dB/div Log Mkr1 2.350 GHz -43.067 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Freq Offset 0 Hz 1GHz~10th Harmonic																																																																																																																								

----End of Report----