

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 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 37.47 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>34.68</td><td>(-3.39)</td><td>0.0</td><td>36.24</td><td>(-1.83)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.28</td><td>(-1.91)</td><td>-12.50 k</td><td>-32.62</td><td>(-1.80)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.89</td><td>(-14.89)</td><td>-13.70 k</td><td>-32.62</td><td>(-12.62)</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 438.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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12.50 kHz	60.00 kHz	100.0 Hz	-37.08	(-17.08)	-17.05 k	-37.15	(-17.15)	17.05 k																																																																																																																																																																																																
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																																																																																
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 37.71 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< 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>35.70</td><td>(-1.98)</td><td>0.0</td><td>35.74</td><td>(-1.94)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.91</td><td>(-3.24)</td><td>-12.35 k</td><td>-34.28</td><td>(-0.52)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.54</td><td>(-14.54)</td><td>-13.70 k</td><td>-32.22</td><td>(-12.22)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz 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	35.70	(-1.98)	0.0	35.74	(-1.94)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.91	(-3.24)	-12.35 k	-34.28	(-0.52)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.54	(-14.54)	-13.70 k	-32.22	(-12.22)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																						
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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 SENSE: PULSEL ALIGN: OFF 09:56:34 AM Apr 16, 2021 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 22 dB Ref 38.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 32.61 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>31.98</td><td>(-1.53)</td><td>0.0</td><td>32.09</td><td>(-1.41)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.36</td><td>(-5.89)</td><td>-12.30 k</td><td>-42.41</td><td>(-5.57)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.57</td><td>(-18.57)</td><td>-12.50 k</td><td>-38.11</td><td>(-18.11)</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> MSO File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 400.012500 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	31.98	(-1.53)	0.0	32.09	(-1.41)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.36	(-5.89)	-12.30 k	-42.41	(-5.57)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.57	(-18.57)	-12.50 k	-38.11	(-18.11)	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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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SENSE: PULSEL ALIGN: OFF 09:56:55 AM Apr 16, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 38.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 32.27 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>30.72</td><td>(-2.78)</td><td>0.0</td><td>31.12</td><td>(-2.39)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.88</td><td>(-2.40)</td><td>-12.30 k</td><td>-37.79</td><td>(-2.77)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.29</td><td>(-20.29)</td><td>-13.00 k</td><td>-38.33</td><td>(-18.33)</td><td>13.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 400.012500 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	30.72	(-2.78)	0.0	31.12	(-2.39)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.88	(-2.40)	-12.30 k	-37.79	(-2.77)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.29	(-20.29)	-13.00 k	-38.33	(-18.33)	13.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SENSE: PULSEL ALIGN: OFF 10:52:15 AM Apr 28, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 31.98 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>32.02</td><td>(-1.47)</td><td>0.0</td><td>32.02</td><td>(-1.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.95</td><td>(-10.09)</td><td>-12.35 k</td><td>-46.53</td><td>(-9.67)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.62</td><td>(-21.62)</td><td>-18.55 k</td><td>-41.56</td><td>(-21.56)</td><td>18.55 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> MSO File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 405.987500 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	32.02	(-1.47)	0.0	32.02	(-1.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.95	(-10.09)	-12.35 k	-46.53	(-9.67)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.62	(-21.62)	-18.55 k	-41.56	(-21.56)	18.55 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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 32.72 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>30.95</td><td>(-2.54)</td><td>0.0</td><td>31.06</td><td>(-2.43)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.30</td><td>(-1.09)</td><td>-12.40 k</td><td>-39.24</td><td>(-1.30)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.96</td><td>(-18.96)</td><td>-13.80 k</td><td>-37.78</td><td>(-17.78)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.95	(-2.54)	0.0	31.06	(-2.43)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.30	(-1.09)	-12.40 k	-39.24	(-1.30)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.96	(-18.96)	-13.80 k	-37.78	(-17.78)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 32.02 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>32.00</td><td>(-1.47)</td><td>0.0</td><td>32.00</td><td>(-1.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.37</td><td>(-5.13)</td><td>-11.85 k</td><td>-38.55</td><td>(-5.31)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.90</td><td>(-21.90)</td><td>-13.70 k</td><td>-41.57</td><td>(-21.57)</td><td>13.75 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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.00	(-1.47)	0.0	32.00	(-1.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.37	(-5.13)	-11.85 k	-38.55	(-5.31)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.90	(-21.90)	-13.70 k	-41.57	(-21.57)	13.75 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	—	(—)	—	—	(—)	—	Frequency Center Freq 406.112500 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)																																																								
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5.625 kHz	12.50 kHz	100.0 Hz	-38.37	(-5.13)	-11.85 k	-38.55	(-5.31)	11.85 k																																																											
12.50 kHz	60.00 kHz	100.0 Hz	-41.90	(-21.90)	-13.70 k	-41.57	(-21.57)	13.75 k																																																											
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 32.59 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>31.00</td><td>(-2.47)</td><td>0.0</td><td>31.00</td><td>(-2.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.66</td><td>(-1.05)</td><td>-12.45 k</td><td>-41.41</td><td>(-3.44)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.13</td><td>(-20.13)</td><td>-14.55 k</td><td>-38.65</td><td>(-18.65)</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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.00	(-2.47)	0.0	31.00	(-2.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.66	(-1.05)	-12.45 k	-41.41	(-3.44)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.13	(-20.13)	-14.55 k	-38.65	(-18.65)	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	—	(—)	—	—	(—)	—	Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz
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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 438.012500 MHz Center Freq: 438.012500 MHz Radio Stn: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS 10 dB/div Log Ref Offset 23 dB Ref 37.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 33.03 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>32.22</td><td>(-1.05)</td><td>0.0</td><td>32.46</td><td>(-0.81)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.74</td><td>(-6.30)</td><td>-11.85 k</td><td>-40.76</td><td>(-6.59)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.18</td><td>(-20.18)</td><td>-16.10 k</td><td>-40.05</td><td>(-20.05)</td><td>16.15 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></tbody></table> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td rowspan="3">TX-ANL</td><td rowspan="3">FM</td><td rowspan="3">CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Stn: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS 10 dB/div Log Ref Offset 23 dB Ref 37.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 32.80 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>30.51</td><td>(-2.76)</td><td>0.0</td><td>31.47</td><td>(-1.80)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.94</td><td>(-2.22)</td><td>-12.30 k</td><td>-40.07</td><td>(-1.90)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.85</td><td>(-17.85)</td><td>-12.65 k</td><td>-36.03</td><td>(-16.03)</td><td>13.55 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 438.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td rowspan="3">TX-ANL</td><td rowspan="3">FM</td><td rowspan="3">CH_H</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Stn: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS 10 dB/div Log Ref Offset 23 dB Ref 36.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 31.58 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.63</td><td>(-0.84)</td><td>0.0</td><td>31.63</td><td>(-0.84)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.69</td><td>(-5.26)</td><td>-12.15 k</td><td>-42.18</td><td>(-5.38)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.76</td><td>(-19.76)</td><td>-14.80 k</td><td>-39.90</td><td>(-19.90)</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></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz 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	32.22	(-1.05)	0.0	32.46	(-0.81)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.74	(-6.30)	-11.85 k	-40.76	(-6.59)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.18	(-20.18)	-16.10 k	-40.05	(-20.05)	16.15 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	—	(—)	—	—	(—)	—	TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - 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Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Stn: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS 10 dB/div Log Ref Offset 23 dB Ref 36.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 31.58 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.63</td><td>(-0.84)</td><td>0.0</td><td>31.63</td><td>(-0.84)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.69</td><td>(-5.26)</td><td>-12.15 k</td><td>-42.18</td><td>(-5.38)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.76</td><td>(-19.76)</td><td>-14.80 k</td><td>-39.90</td><td>(-19.90)</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></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz 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	30.51	(-2.76)	0.0	31.47	(-1.80)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.94	(-2.22)	-12.30 k	-40.07	(-1.90)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.85	(-17.85)	-12.65 k	-36.03	(-16.03)	13.55 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-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Stn: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS 10 dB/div Log Ref Offset 23 dB Ref 36.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 31.58 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.63</td><td>(-0.84)</td><td>0.0</td><td>31.63</td><td>(-0.84)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.69</td><td>(-5.26)</td><td>-12.15 k</td><td>-42.18</td><td>(-5.38)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.76</td><td>(-19.76)</td><td>-14.80 k</td><td>-39.90</td><td>(-19.90)</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></tbody></table> Frequency Center Freq 469.987500 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	31.63	(-0.84)	0.0	31.63	(-0.84)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.69	(-5.26)	-12.15 k	-42.18	(-5.38)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.76	(-19.76)	-14.80 k	-39.90	(-19.90)	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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Appendix C:Emission Mask

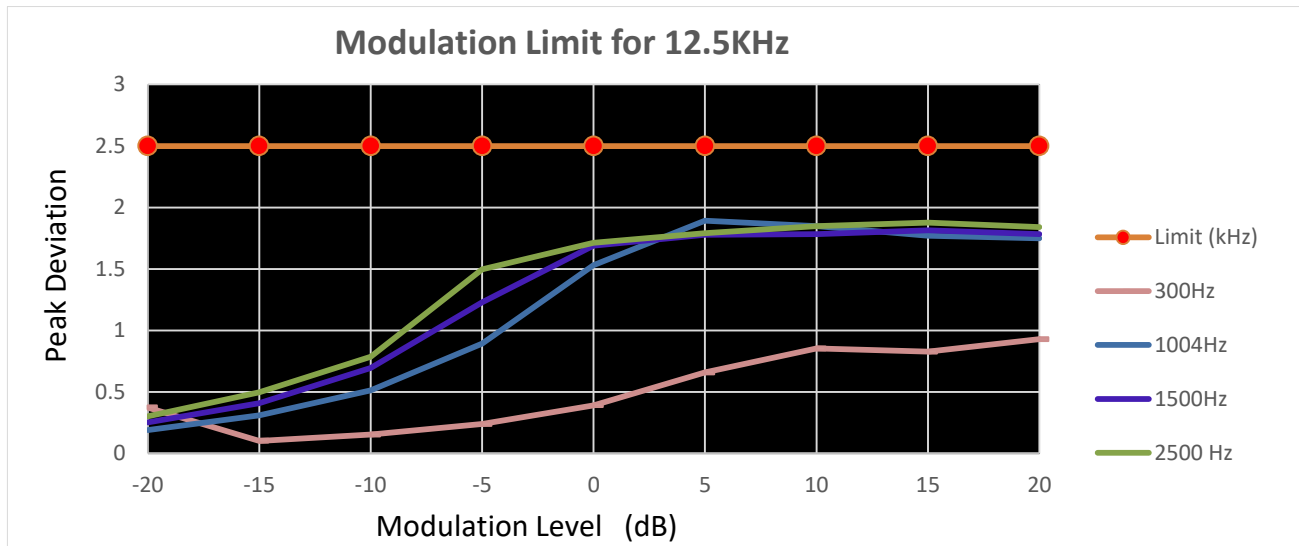
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT			
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RLim: 40.00 dB SENSE: Full SE ALIGN: OFF 10:12:09 AM Apr 16, 2021 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz			
			10 dB/div Ref Offset 23 dB Ref 36.0 dBm Log 26.0 16.0 6.00 -4.00 -14.0 -24.0 -34.0 -44.0 -54.0 </			

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	0.373	0.191	0.254	0.302	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.103	0.311	0.410	0.498	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.153	0.513	0.695	0.787	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.240	0.892	1.229	1.498	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.392	1.532	1.690	1.712	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.658	1.892	1.779	1.790	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.854	1.847	1.784	1.848	2.5	PASS
TX-ANH	FM	CH _{M2}	15	0.828	1.771	1.814	1.876	2.5	PASS
TX-ANH	FM	CH _{M2}	20	0.929	1.750	1.783	1.840	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

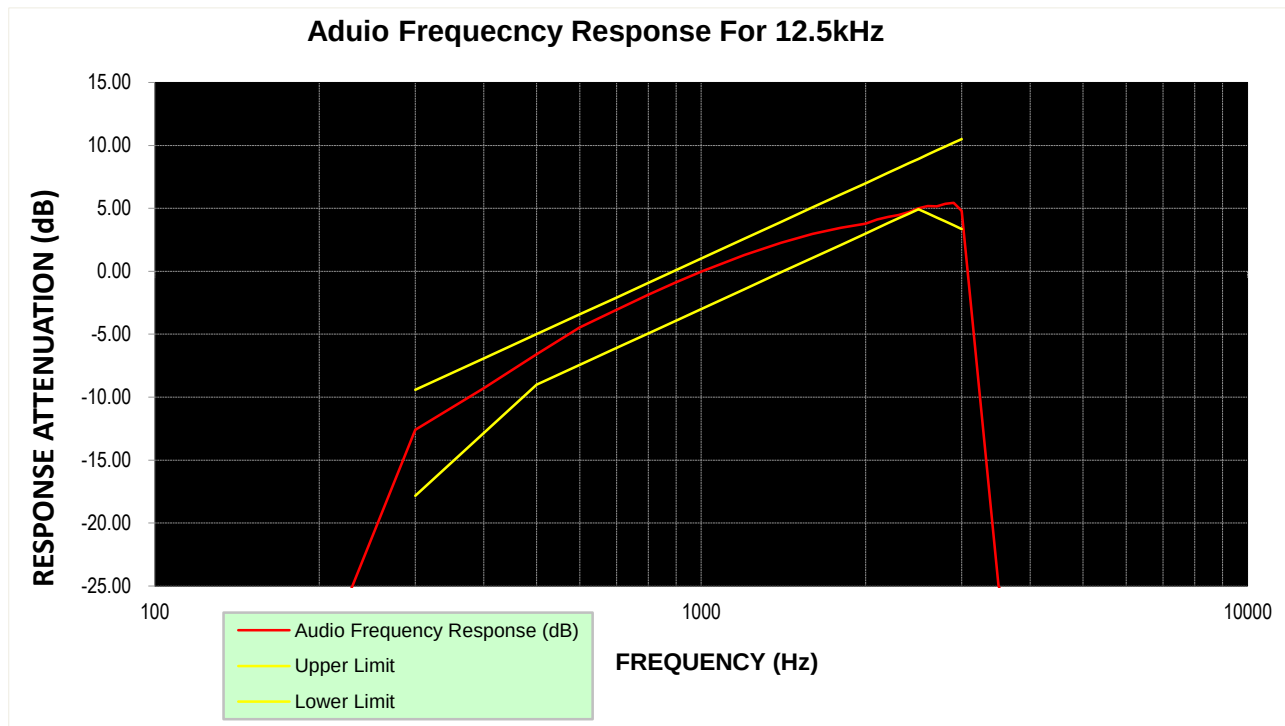


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-31.35			PASS
TX-ANH	FM	CH _{M2}	200	-31.55			PASS
TX-ANH	FM	CH _{M2}	300	-12.59	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-9.28	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.60	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.46	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.05	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.86	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.87	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.28	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.26	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	2.97	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	3.45	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	3.78	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	4.11	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	4.33	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	4.46	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	4.69	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.01	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	5.17	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	5.15	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	5.36	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	5.42	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	4.79	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-24.98			PASS
TX-ANH	FM	CH _{M2}	4000	-31.53			PASS
TX-ANH	FM	CH _{M2}	4500	-31.46			PASS
TX-ANH	FM	CH _{M2}	5000	-31.38			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



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

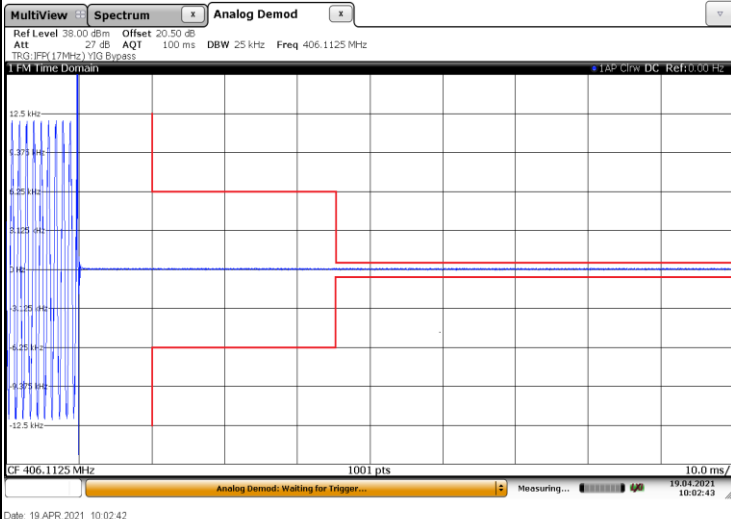
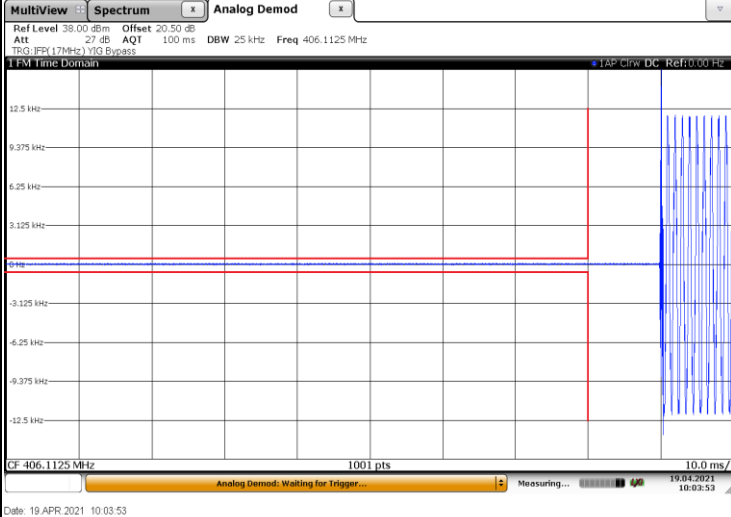
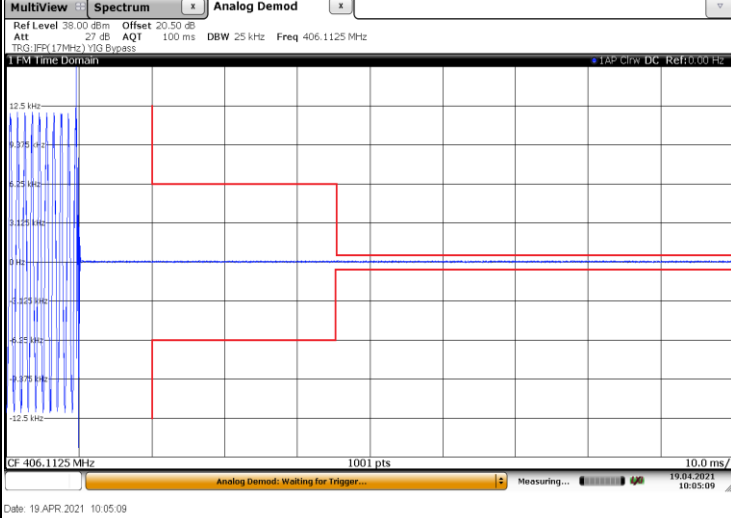
Appendix F:Frequency Stability Test & Temperature

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	0.128	0.079	0.089	0.118	0.011	±2.5	PASS
TX-DNH	4FSK	V _N	-20	0.124	0.081	0.088	0.125	0.012	±2.5	PASS
TX-DNH	4FSK	V _N	-10	0.130	0.080	0.093	0.120	0.012	±2.5	PASS
TX-DNH	4FSK	V _N	0	0.130	0.080	0.087	0.116	0.011	±2.5	PASS
TX-DNH	4FSK	V _N	10	0.120	0.078	0.093	0.121	0.012	±2.5	PASS
TX-DNH	4FSK	V _N	20	0.120	0.074	0.085	0.116	0.011	±2.5	PASS
TX-DNH	4FSK	V _N	30	0.131	0.081	0.093	0.117	0.011	±2.5	PASS
TX-DNH	4FSK	V _N	40	0.121	0.076	0.087	0.117	0.012	±2.5	PASS
TX-DNH	4FSK	V _N	50	0.130	0.079	0.086	0.121	0.011	±2.5	PASS
TX-DNL	4FSK	V _N	-30	0.152	0.079	0.095	0.123	0.143	±2.5	PASS
TX-DNL	4FSK	V _N	-20	0.155	0.075	0.092	0.125	0.136	±2.5	PASS
TX-DNL	4FSK	V _N	-10	0.153	0.079	0.089	0.123	0.143	±2.5	PASS
TX-DNL	4FSK	V _N	0	0.144	0.075	0.097	0.122	0.138	±2.5	PASS
TX-DNL	4FSK	V _N	10	0.155	0.077	0.090	0.122	0.140	±2.5	PASS
TX-DNL	4FSK	V _N	20	0.142	0.074	0.089	0.120	0.136	±2.5	PASS
TX-DNL	4FSK	V _N	30	0.147	0.077	0.095	0.131	0.146	±2.5	PASS
TX-DNL	4FSK	V _N	40	0.156	0.080	0.094	0.132	0.147	±2.5	PASS
TX-DNL	4FSK	V _N	50	0.146	0.074	0.096	0.121	0.139	±2.5	PASS
TX-ANH	FM	V _N	-30	0.461	0.274	0.221	0.239	0.213	±2.5	PASS
TX-ANH	FM	V _N	-20	0.440	0.270	0.225	0.230	0.213	±2.5	PASS
TX-ANH	FM	V _N	-10	0.432	0.270	0.218	0.247	0.213	±2.5	PASS
TX-ANH	FM	V _N	0	0.440	0.273	0.228	0.248	0.203	±2.5	PASS
TX-ANH	FM	V _N	10	0.453	0.270	0.232	0.253	0.205	±2.5	PASS
TX-ANH	FM	V _N	20	0.422	0.255	0.218	0.230	0.202	±2.5	PASS
TX-ANH	FM	V _N	30	0.442	0.273	0.224	0.230	0.213	±2.5	PASS
TX-ANH	FM	V _N	40	0.461	0.273	0.219	0.248	0.204	±2.5	PASS
TX-ANH	FM	V _N	50	0.438	0.257	0.238	0.237	0.218	±2.5	PASS
TX-ANL	FM	V _N	-30	0.437	0.279	0.121	0.127	0.215	±2.5	PASS
TX-ANL	FM	V _N	-20	0.429	0.280	0.122	0.127	0.221	±2.5	PASS
TX-ANL	FM	V _N	-10	0.401	0.278	0.126	0.127	0.220	±2.5	PASS
TX-ANL	FM	V _N	0	0.424	0.266	0.124	0.135	0.209	±2.5	PASS
TX-ANL	FM	V _N	10	0.409	0.281	0.126	0.133	0.202	±2.5	PASS
TX-ANL	FM	V _N	20	0.397	0.260	0.119	0.126	0.202	±2.5	PASS
TX-ANL	FM	V _N	30	0.416	0.260	0.127	0.129	0.210	±2.5	PASS
TX-ANL	FM	V _N	40	0.400	0.268	0.124	0.131	0.212	±2.5	PASS
TX-ANL	FM	V _N	50	0.414	0.284	0.126	0.136	0.211	±2.5	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	0.120	0.074	0.085	0.116	0.011	±2.5	PASS
TX-DNH	4FSK	V _L	T _N	0.120	0.074	0.078	0.118	0.011	±2.5	PASS
TX-DNH	4FSK	V _H	T _N	0.123	0.074	0.084	0.114	0.012	±2.5	PASS
TX-DNL	4FSK	V _N	T _N	0.142	0.074	0.089	0.120	0.136	±2.5	PASS
TX-DNL	4FSK	V _L	T _N	0.143	0.074	0.087	0.122	0.137	±2.5	PASS
TX-DNL	4FSK	V _H	T _N	0.150	0.076	0.091	0.119	0.140	±2.5	PASS
TX-ANH	FM	V _N	T _N	0.422	0.255	0.218	0.230	0.202	±2.5	PASS
TX-ANH	FM	V _L	T _N	0.428	0.256	0.222	0.230	0.203	±2.5	PASS
TX-ANH	FM	V _H	T _N	0.442	0.261	0.219	0.233	0.205	±2.5	PASS
TX-ANL	FM	V _N	T _N	0.397	0.260	0.119	0.126	0.202	±2.5	PASS
TX-ANL	FM	V _L	T _N	0.399	0.262	0.123	0.120	0.205	±2.5	PASS
TX-ANL	FM	V _H	T _N	0.415	0.266	0.117	0.128	0.207	±2.5	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M2}	 OFF~ON
TX-DNH	4FSK	CH _{M2}	 ON-OFF
TX-ANH	FM	CH _{M2}	 OFF~ON

Appendix H:Transmitter Frequency Behavior

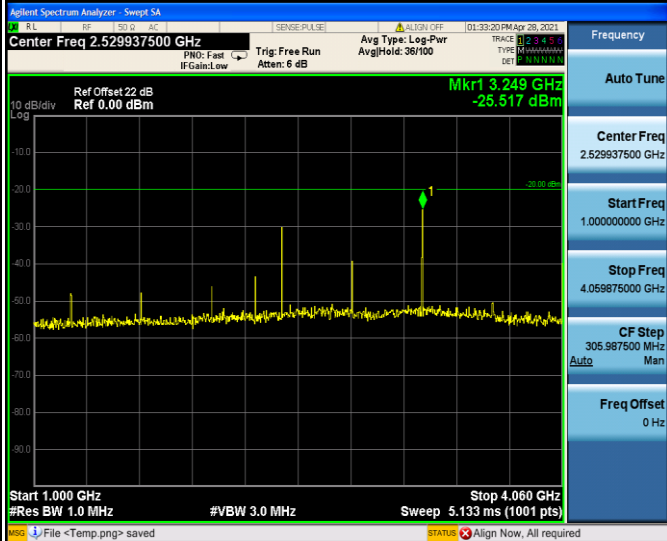
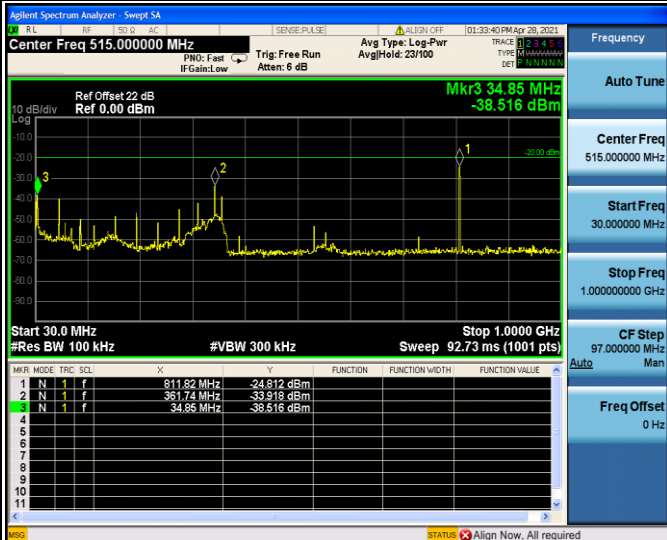
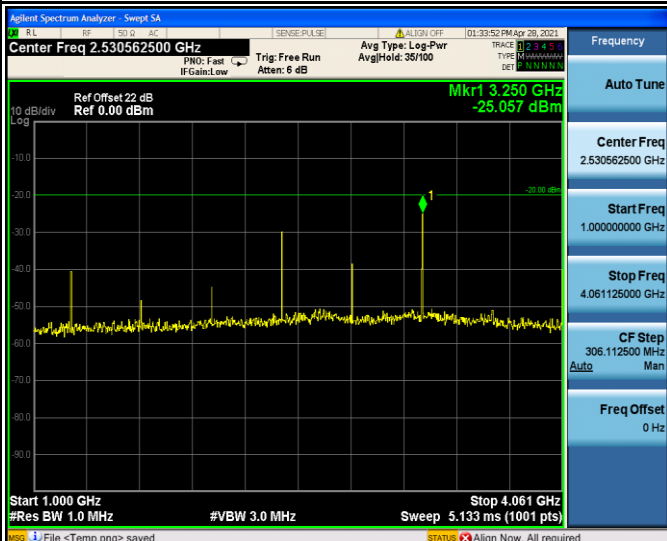
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	MultiView Spectrum Analog Demod Ref Level 38.00 dBm Offset 20.50 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG:PR (17MHz) YIG Bypass 1 FM Time Domain 1AP clrw DC Ref:0.00 Hz CF 406.1125 MHz 1001 pts 10.0 ms Analog Demod: Waiting for Trigger... Measuring... 19.04.2021 10:04:32 Date: 19 APR 2021 10:04:32

ON-OFF

Appendix I:Spurious Emission On Antenna Port

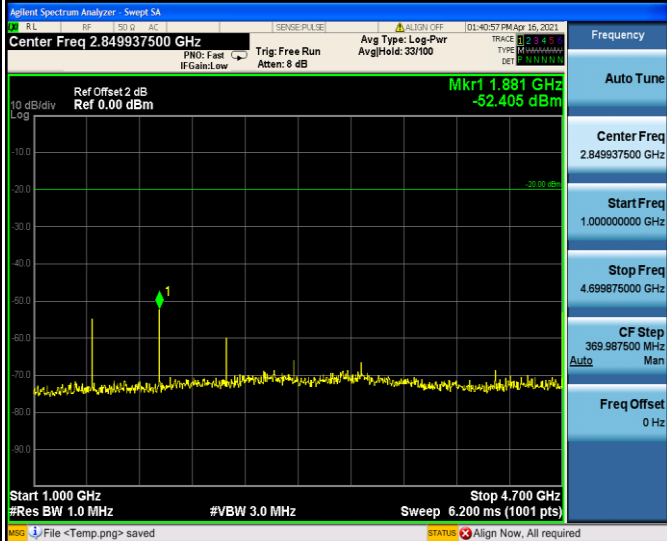
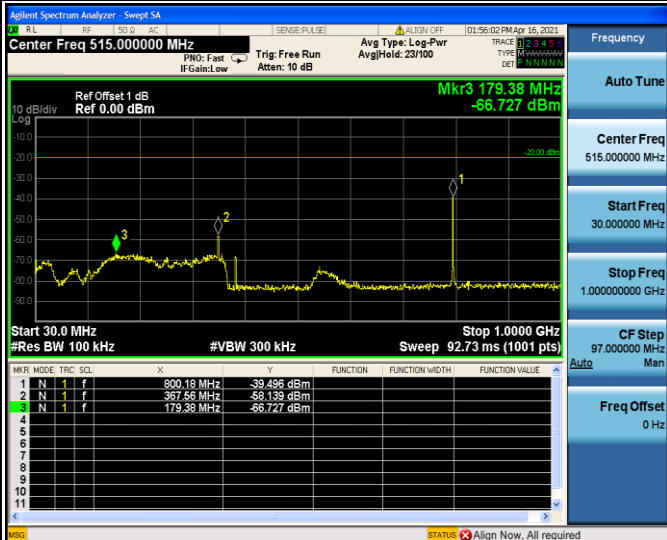
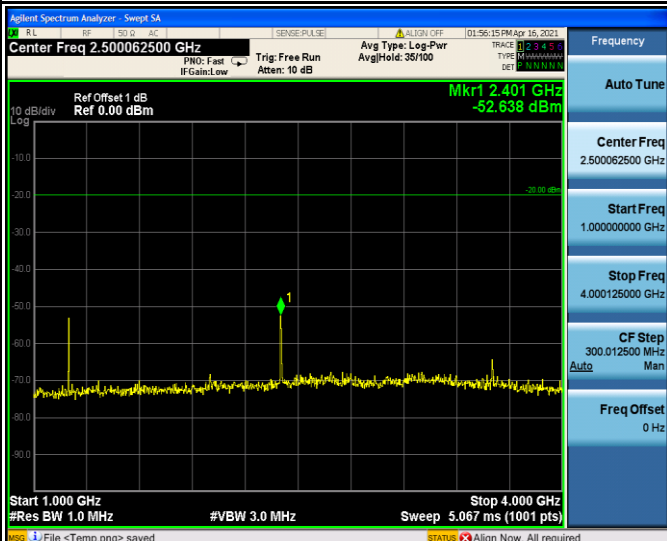
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 1 dB Ref 0.00 dBm

Appendix I:Spurious Emission On Antenna Port

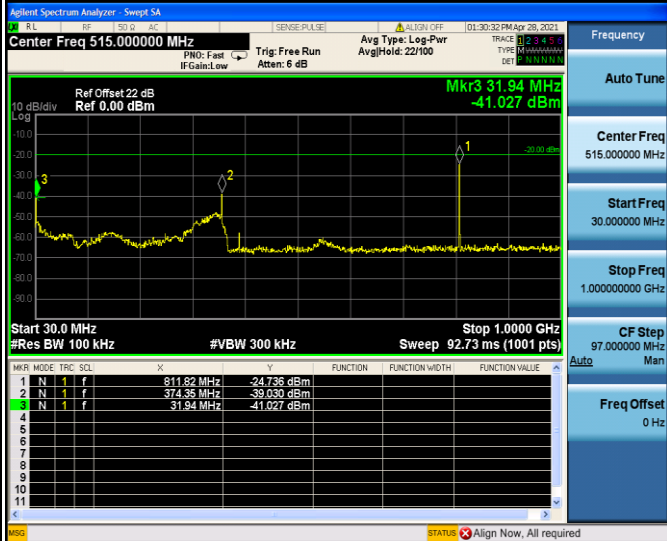
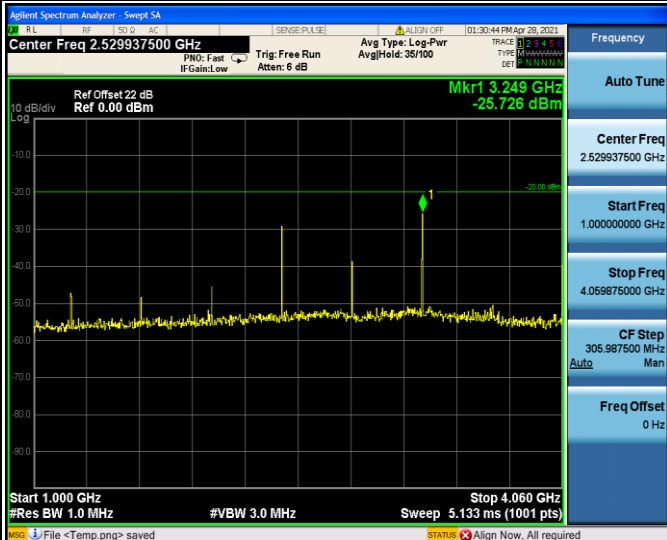
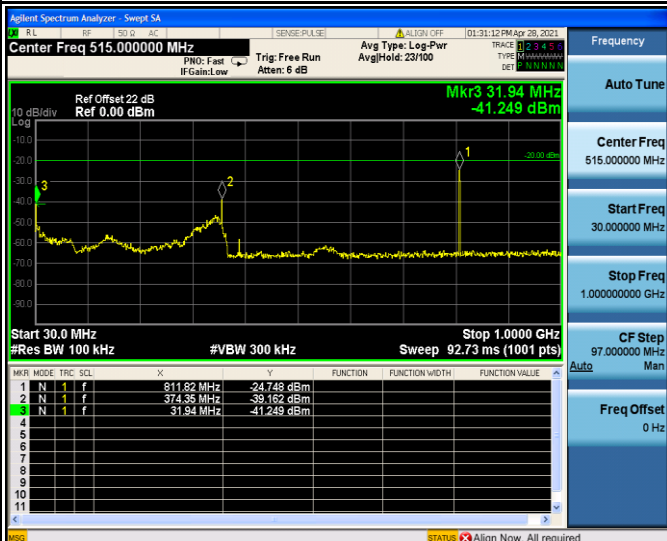
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 3.249 GHz -25.517 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.060 GHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Mkr3 34.85 MHz -38.516 dBm Start 30.0 MHz #Res BW 100 kHz Stop 1.000 GHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 3.250 GHz -25.057 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.061 GHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Auto Man Freq Offset 0 Hz

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Start 30.0 MHz #Res BW 100 kHz Stop 1.0000 GHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) 1 N 1 f 875.84 MHz -20.443 dBm 2 N 1 f 417.03 MHz -26.020 dBm 3 N 1 f 361.74 MHz -43.696 dBm Mkr3 361.74 MHz -43.696 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 22 dB Ref 0.00 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.380 GHz #VBW 3.0 MHz Sweep 5.667 ms (1001 pts) 1 N 1 f 1.314 GHz -32.512 dBm Mkr1 1.314 GHz -32.512 dBm Frequency Auto Tune Center Freq 2.690062500 GHz Start Freq 1.00000000 GHz Stop Freq 4.38012500 GHz CF Step 338.012500 MHz Man Freq Offset 0 Hz
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 2 dB Ref 0.00 dBm Start 30.0 MHz #Res BW 100 kHz Stop 1.0000 GHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) 1 N 1 f 939.86 MHz -43.896 dBm 2 N 1 f 67.83 MHz -52.482 dBm 3 N 1 f 374.35 MHz -71.681 dBm Mkr3 374.35 MHz -71.681 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz

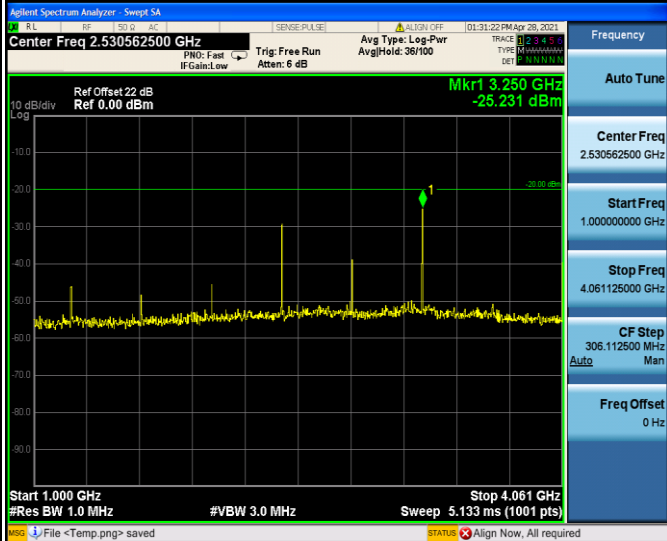
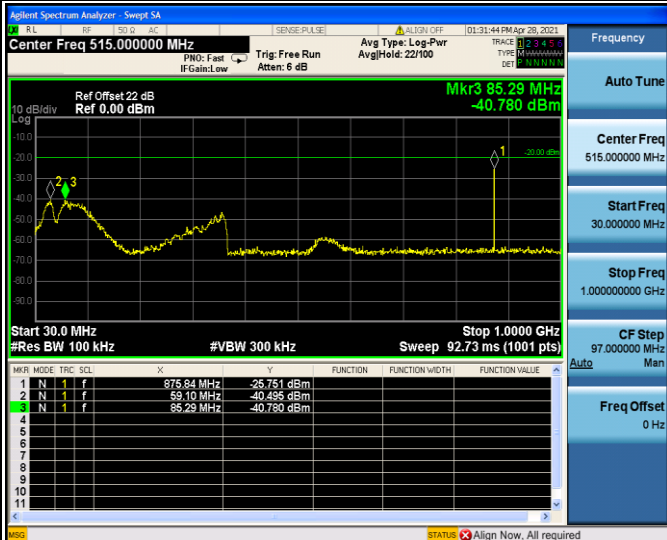
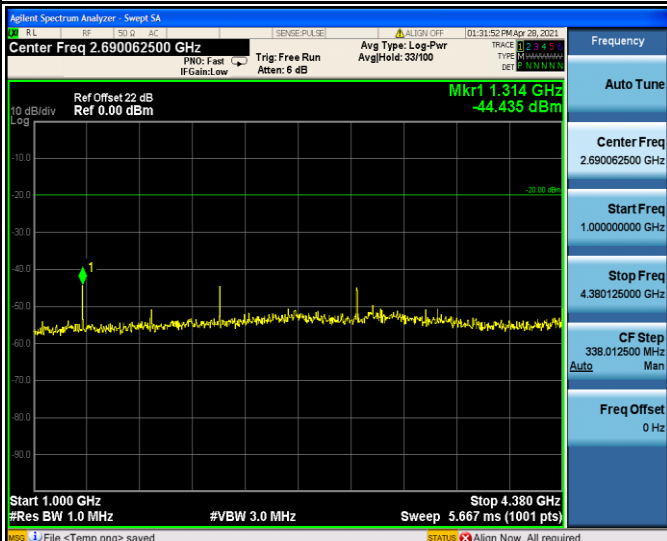
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.849937500 GHz Ref Offset 2 dB Ref 0.00 dBm Mkr1 1.881 GHz -52.405 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.700 GHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts) Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 1 dB Ref 0.00 dBm Mkr3 179.38 MHz -66.727 dBm Start 30.0 MHz #Res BW 100 kHz Stop 1.000 GHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.500062500 GHz Ref Offset 1 dB Ref 0.00 dBm Mkr1 2.401 GHz -52.638 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.000 GHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts) Frequency Auto Tune Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Auto Man Freq Offset 0 Hz

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Mkr3 31.94 MHz -41.027 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 3.249 GHz -25.726 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.060 GHz Sweep 5.133 ms (1001 pts) Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.060000000 GHz CF Step 305.987500 MHz Freq Offset 0 Hz
TX-ANH	FM	CH _{M2}	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Mkr3 31.94 MHz -41.249 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 3.250 GHz -25.231 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.061 GHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)
TX-ANH	FM	CH _{M3}	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Mkr3 85.29 MHz -40.780 dBm Start 30.0 MHz #Res BW 100 kHz Stop 1.000 GHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)
TX-ANH	FM	CH _{M3}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 1.314 GHz -44.435 dBm Start 1.000 GHz #Res BW 1.0 MHz Stop 4.380 GHz #VBW 3.0 MHz Sweep 5.667 ms (1001 pts)

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Swept SA RLRF SENSE:PLUSE ALIGN OFF 01:57:13 PM Apr 16, 2021 Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 8 dB Avg Type: Log-Pwr Avg/Hold: 22/100 TRACE 1 2 3 4 5 6 TYPE: M N M N M N M N DET: M N M N M N M N Ref Offset: 2 dB Ref 0.00 dBm Mkr3 367.56 MHz -71.315 dBm 10 dB/div Log Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) <table><thead><tr><th>MKR</th><th>MODE</th><th>TRG</th><th>SOL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>939.86 MHz</td><td>-44.335 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>119.24 MHz</td><td>-65.069 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>367.56 MHz</td><td>-71.315 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> MS STATUS Align Now, All required 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	MKR	MODE	TRG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	939.86 MHz	-44.335 dBm				2	N	1	f	119.24 MHz	-65.069 dBm				3	N	1	f	367.56 MHz	-71.315 dBm				4									5									6									7									8									9									10									11								
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