

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 50.0 AC SENSE: PULSE ALIGN: AUTO 04:37:18 PM Jan 10, 2023 Center Freq 400.100000 MHz Center Freq: 400.100000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 400.1 MHz Span 120 kHz Total Power Ref 30.34 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>30.34</td><td>(-1.21)</td><td>0.0</td><td>30.34</td><td>(-1.21)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.38</td><td>(-4.50)</td><td>-12.50 k</td><td>-44.49</td><td>(-4.61)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.90</td><td>(-22.90)</td><td>-16.80 k</td><td>-43.49</td><td>(-23.49)</td><td>13.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSG File <MASK D.state> recalled STATUS Frequency Center Freq 400.100000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>CH_L</td><td> Agilent Spectrum Analyzer - 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CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 04:37:40 PM Jan 10, 2023 Center Freq 400.100000 MHz Center Freq: 400.100000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 400.1 MHz Span 120 kHz Total Power Ref 30.36 dBm @ 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.47</td><td>(-2.08)</td><td>0.0</td><td>29.47</td><td>(-2.08)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.32</td><td>(-1.44)</td><td>-12.50 k</td><td>-42.86</td><td>(-4.07)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.59</td><td>(-20.59)</td><td>-13.10 k</td><td>-40.64</td><td>(-20.64)</td><td>12.95 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> MSG File <Temp.png> saved STATUS Frequency Center Freq 400.100000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>CH_M</td><td> Agilent Spectrum Analyzer - 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Spectrum Emission Mask RL RF 50.0 AC SENSE: PULSE ALIGN: AUTO 04:42:08 PM Jan 10, 2023 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 21 dB Ref 36.0 dBm 10 dB/div Log 20.0 16.0 6.00 -14.0 -24.0 -34.0 -44.0 -54.0 Center 435 MHz Span 120 kHz Total Power Ref 31.29 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>30.69</td><td>(-1.04)</td><td>-50.00</td><td>30.69</td><td>(-1.05)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.55</td><td>(-3.21)</td><td>-12.45 k</td><td>-42.23</td><td>(-3.25)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.19</td><td>(-23.19)</td><td>-16.25 k</td><td>-43.21</td><td>(-23.21)</td><td>16.20 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></table> MSG File <MASK D.state> recalled 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	30.69	(-1.04)	-50.00	30.69	(-1.05)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.55	(-3.21)	-12.45 k	-42.23	(-3.25)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.19	(-23.19)	-16.25 k	-43.21	(-23.21)	16.20 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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Appendix C:Emission Mask

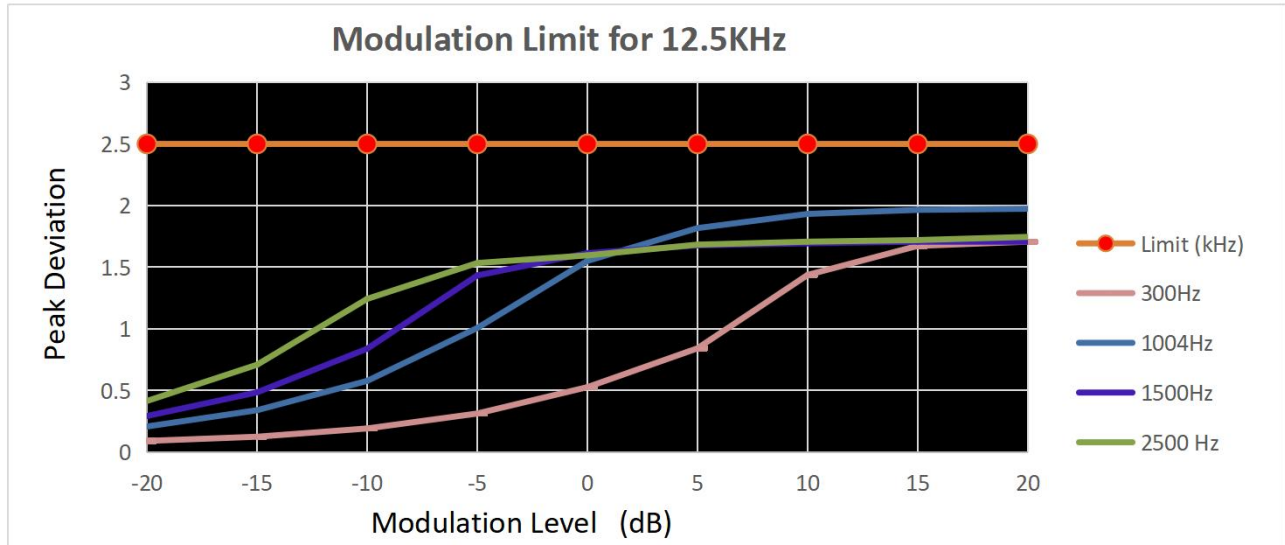
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE: PULSE ALIGN: AUTO 04:42:30 PM Jan 10, 2023 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm Center 435 MHz Span 120 kHz Total Power Ref 31.23 dBm @ 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</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>29.79</td><td>(-1.94)</td><td>-50.00</td><td>29.79</td><td>(-1.95)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.07</td><td>(-4.18)</td><td>-12.25 k</td><td>-42.05</td><td>(-2.71)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.48</td><td>(-20.48)</td><td>-12.25 k</td><td>-40.44</td><td>(-20.44)</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> MSG 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.79	(-1.94)	-50.00	29.79	(-1.95)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.07	(-4.18)	-12.25 k	-42.05	(-2.71)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.48	(-20.48)	-12.25 k	-40.44	(-20.44)	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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE: PULSE ALIGN: AUTO 04:44:54 PM Jan 10, 2023 Center Freq 479.900000 MHz Center Freq: 479.900000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm Center 479.9 MHz Span 120 kHz Total Power Ref 31.45 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 ΔLim(dB)</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>30.89</td><td>(-1.16)</td><td>-50.00</td><td>30.77</td><td>(-1.27)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.03</td><td>(-0.64)</td><td>-12.50 k</td><td>-39.49</td><td>(-0.46)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.02</td><td>(-22.02)</td><td>-13.90 k</td><td>-43.04</td><td>(-23.04)</td><td>13.80 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> MSG File <MASK D.state> recalled STATUS Frequency Center Freq 479.900000 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.89	(-1.16)	-50.00	30.77	(-1.27)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.03	(-0.64)	-12.50 k	-39.49	(-0.46)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.02	(-22.02)	-13.90 k	-43.04	(-23.04)	13.80 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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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 150.0 AC SENSE: PULSE ALIGN: AUTO 04:45:16 PM Jan 10, 2023 Center Freq 479.900000 MHz Center Freq: 479.900000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 21 dB Ref 36.0 dBm Center 479.9 MHz Span 120 kHz Total Power Ref 31.38 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 ΔLim(dB)</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>30.04</td><td>(-2.00)</td><td>-50.00</td><td>29.86</td><td>(-2.19)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.85</td><td>(-2.27)</td><td>-12.25 k</td><td>-40.84</td><td>(-2.17)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.48</td><td>(-20.48)</td><td>-12.85 k</td><td>-39.92</td><td>(-19.92)</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> MSG File <Temp.png> saved STATUS Frequency Center Freq 479.900000 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.04	(-2.00)	-50.00	29.86	(-2.19)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.85	(-2.27)	-12.25 k	-40.84	(-2.17)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.48	(-20.48)	-12.85 k	-39.92	(-19.92)	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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	30.04	(-2.00)	-50.00	29.86	(-2.19)	0.0																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _M	-20	0.091	0.208	0.293	0.415	2.5	PASS
TX-ANH	FM	CH _M	-15	0.125	0.340	0.485	0.709	2.5	PASS
TX-ANH	FM	CH _M	-10	0.192	0.578	0.839	1.243	2.5	PASS
TX-ANH	FM	CH _M	-5	0.313	1.007	1.433	1.534	2.5	PASS
TX-ANH	FM	CH _M	0	0.527	1.551	1.614	1.596	2.5	PASS
TX-ANH	FM	CH _M	5	0.842	1.817	1.677	1.683	2.5	PASS
TX-ANH	FM	CH _M	10	1.437	1.932	1.694	1.707	2.5	PASS
TX-ANH	FM	CH _M	15	1.673	1.965	1.707	1.720	2.5	PASS
TX-ANH	FM	CH _M	20	1.707	1.974	1.711	1.746	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

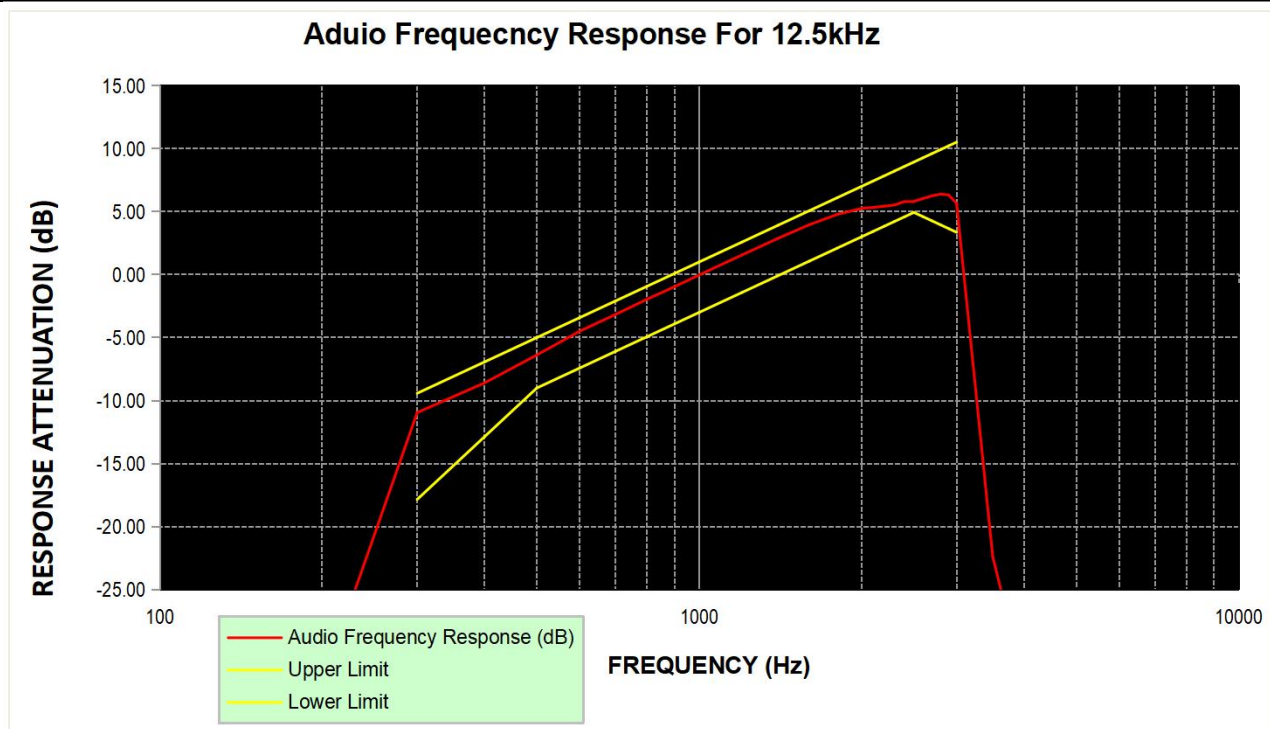


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-33.20			PASS
TX-ANH	FM	CH _M	200	-32.48			PASS
TX-ANH	FM	CH _M	300	-10.95	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-8.60	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-6.38	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-4.50	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.16	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-1.96	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-0.96	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.56	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	2.88	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	3.96	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	4.77	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	5.25	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	5.32	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	5.42	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	5.52	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	5.79	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	5.81	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	6.04	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	6.25	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	6.39	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	6.32	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	5.65	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	-22.36			PASS
TX-ANH	FM	CH _M	4000	-32.53			PASS
TX-ANH	FM	CH _M	4500	-32.39			PASS
TX-ANH	FM	CH _M	5000	-32.63			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	-0.606	-0.646	-0.665	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.641	-0.639	-0.666	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.615	-0.628	-0.701	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.631	-0.627	-0.697	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.593	-0.647	-0.667	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.591	-0.606	-0.652	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.616	-0.614	-0.700	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.605	-0.654	-0.657	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.641	-0.659	-0.656	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.626	-0.640	-0.669	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.616	-0.656	-0.655	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.587	-0.643	-0.648	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.627	-0.667	-0.693	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.591	-0.660	-0.706	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.583	-0.611	-0.643	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.600	-0.654	-0.703	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.591	-0.658	-0.704	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.599	-0.665	-0.704	±5.0	PASS
TX-ANH	FM	V _N	-30	0.076	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V _N	-20	0.082	-0.002	-0.034	±5.0	PASS
TX-ANH	FM	V _N	-10	0.079	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V _N	0	0.076	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V _N	10	0.082	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V _N	20	0.075	-0.002	-0.032	±5.0	PASS
TX-ANH	FM	V _N	30	0.081	-0.002	-0.032	±5.0	PASS
TX-ANH	FM	V _N	40	0.077	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V _N	50	0.080	-0.002	-0.034	±5.0	PASS
TX-ANL	FM	V _N	-30	0.043	-0.017	-0.115	±5.0	PASS
TX-ANL	FM	V _N	-20	0.044	-0.018	-0.111	±5.0	PASS
TX-ANL	FM	V _N	-10	0.043	-0.017	-0.113	±5.0	PASS
TX-ANL	FM	V _N	0	0.040	-0.018	-0.112	±5.0	PASS
TX-ANL	FM	V _N	10	0.042	-0.017	-0.120	±5.0	PASS
TX-ANL	FM	V _N	20	0.040	-0.017	-0.111	±5.0	PASS
TX-ANL	FM	V _N	30	0.041	-0.018	-0.116	±5.0	PASS
TX-ANL	FM	V _N	40	0.040	-0.017	-0.113	±5.0	PASS
TX-ANL	FM	V _N	50	0.041	-0.018	-0.116	±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	-0.591	-0.606	-0.652	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.597	-0.607	-0.663	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.625	-0.611	-0.673	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.583	-0.611	-0.643	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.591	-0.613	-0.652	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.591	-0.635	-0.663	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.075	-0.002	-0.032	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.076	-0.002	-0.033	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.075	-0.002	-0.033	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.040	-0.017	-0.111	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.040	-0.017	-0.111	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.042	-0.018	-0.117	±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 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG: IFY (17MHz) YIG Bypass 1 FM Time Domain CF 435.0 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 38.14 dBm</td><td colspan="2">Carrier Offset -24.92 Hz</td><td colspan="2"></td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td></tr><tr><td>FM14.692 kHz</td><td>-12.403 kHz</td><td>13.547 kHz</td><td>2.7566 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... 11.01.202310:25:59 Date: 11. JAN 2023 10:25:58	Carrier Power 38.14 dBm		Carrier Offset -24.92 Hz				+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	FM14.692 kHz	-12.403 kHz	13.547 kHz	2.7566 kHz	---	---
Carrier Power 38.14 dBm		Carrier Offset -24.92 Hz																			
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD																
FM14.692 kHz	-12.403 kHz	13.547 kHz	2.7566 kHz	---	---																
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG: IFY (17MHz) YIG Bypass 1 FM Time Domain CF 435.0 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 38.11 dBm</td><td colspan="2">Carrier Offset -13.19 Hz</td><td colspan="2"></td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td></tr><tr><td>FM23.31 kHz</td><td>-22.618 kHz</td><td>22.964 kHz</td><td>2.8195 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... 11.01.202310:27:07 Date: 11. JAN 2023 10:27:06	Carrier Power 38.11 dBm		Carrier Offset -13.19 Hz				+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	FM23.31 kHz	-22.618 kHz	22.964 kHz	2.8195 kHz	---	---
Carrier Power 38.11 dBm		Carrier Offset -13.19 Hz																			
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD																
FM23.31 kHz	-22.618 kHz	22.964 kHz	2.8195 kHz	---	---																
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG: IFY (17MHz) YIG Bypass 1 FM Time Domain CF 435.0 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 38.18 dBm</td><td colspan="2">Carrier Offset -38.10 Hz</td><td colspan="2"></td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq.</td><td>SINAD</td></tr><tr><td>FM17.352 kHz</td><td>-12.853 kHz</td><td>15.103 kHz</td><td>2.7344 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... 11.01.202310:25:00 Date: 11. JAN 2023 10:25:00	Carrier Power 38.18 dBm		Carrier Offset -38.10 Hz				+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	FM17.352 kHz	-12.853 kHz	15.103 kHz	2.7344 kHz	---	---
Carrier Power 38.18 dBm		Carrier Offset -38.10 Hz																			
+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD																
FM17.352 kHz	-12.853 kHz	15.103 kHz	2.7344 kHz	---	---																

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-ANH	FM	CH _M	MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IF(17MHz) YIG Bypass Time Domain CF 435.0 MHz 1001 pts 10.0 ms 4 Result Summary <table border="1"> <thead> <tr> <th colspan="2">Carrier Power 38.12 dBm</th> <th colspan="2">Carrier Offset -13.46 Hz</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> </tr> </thead> <tbody> <tr> <td>14.689 kHz</td> <td>-35.888 kHz</td> <td>25.288 kHz</td> <td>2.9045 kHz</td> </tr> </tbody> </table> Mod. Freq. --- SINAD --- THD --- Analog Demod: Waiting for Trigger... Date: 11.JAN.2023 10:26:34	Carrier Power 38.12 dBm		Carrier Offset -13.46 Hz		+Peak	-Peak	+Peak/2	RMS	14.689 kHz	-35.888 kHz	25.288 kHz	2.9045 kHz
Carrier Power 38.12 dBm		Carrier Offset -13.46 Hz													
+Peak	-Peak	+Peak/2	RMS												
14.689 kHz	-35.888 kHz	25.288 kHz	2.9045 kHz												

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CHL	Agilent Spectrum Analyzer - Swept SA RL RF 50 dB AC SENSE-PULSE ALIGN AUTO 11:01:32 AM Jan 13, 2023 Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AveHld: 22/100 TRACE 1 2 3 4 5 TYPE M M M M M M M M DEF N N N N N N N Ref Offset 20 dB Ref 0.00 dBm Mkr3 109.54 MHz -52.300 dBm 10 dB/div Log Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) <table><thead><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</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>400.54 MHz</td><td>-11.744 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>800.18 MHz</td><td>-44.286 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>109.54 MHz</td><td>-52.300 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> MSO (STATUS) 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	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	400.54 MHz	-11.744 dBm				2	N	1	f	800.18 MHz	-44.286 dBm				3	N	1	f	109.54 MHz	-52.300 dBm				4									5									6									7									8									9									10									11								
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																																																																																							
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TX-DNH	4FSK	CHL	Agilent Spectrum Analyzer - Swept SA RL RF 50 dB AC SENSE-PULSE ALIGN AUTO 11:01:40 AM Jan 13, 2023 Center Freq 2.500500000 GHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AveHld: 35/100 TRACE 1 2 3 4 5 TYPE M M M M M M M M DEF N N N N N N N Ref Offset 20 dB Ref 0.00 dBm Mkr1 2.002 GHz -45.097 dBm 10 dB/div Log Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.001 GHz Sweep 5.067 ms (1001 pts) File <Temp.png> saved (STATUS) Frequency Auto Tune Center Freq 2.500500000 GHz Start Freq 1.000000000 GHz Stop Freq 4.001000000 GHz CF Step 300.100000 MHz Auto Man Freq Offset 0 Hz																																																																																																												

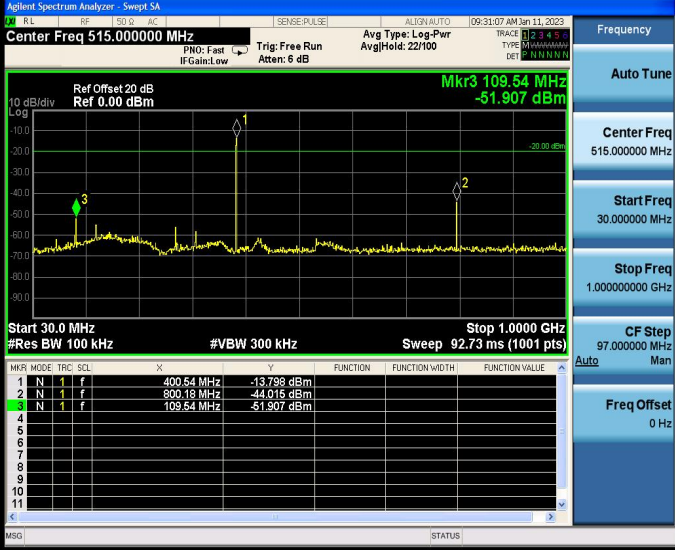
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Sweep SA RL RF SD AC SENSE-PULSE ALIGN-AUTO 11:02:02 AM Jan 13, 2023 Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 23/100 TRACE 1 2 3 4 5 TYPE M N W N M N DEF N N N N N N Ref Offset 20 dB Ref 0.00 dBm Mkr3 700.27 MHz -59.804 dBm 10 dB/div Log -20.00 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRG</th><th>SEL</th><th>F</th><th>P</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>870.02 MHz</td><td>-38.509 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>438.46 MHz</td><td>-52.177 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>700.27 MHz</td><td>-59.804 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></table> MSO (STATUS) 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	SEL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	870.02 MHz	-38.509 dBm				2	N	1	f	438.46 MHz	-52.177 dBm				3	N	1	f	700.27 MHz	-59.804 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Sweep SA RL RF SD AC SENSE-PULSE ALIGN-AUTO 11:02:09 AM Jan 13, 2023 Center Freq 2.675000000 GHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 33/100 TRACE 1 2 3 4 5 TYPE M N W N M N DEF N N N N N N Ref Offset 20 dB Ref 0.00 dBm Mkr1 3.177 50 GHz -61.950 dBm 10 dB/div Log -20.00 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.350 GHz Sweep 5.600 ms (1001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRG</th><th>SEL</th><th>F</th><th>P</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>3.177 50 GHz</td><td>-61.950 dBm</td><td></td><td></td><td></td></tr></table> MSO File <Temp.png> saved (STATUS) Frequency Auto Tune Center Freq 2.675000000 GHz Start Freq 1.000000000 GHz Stop Freq 4.350000000 GHz CF Step 335.000000 MHz Auto Man Freq Offset 0 Hz	MKR	MODE	TRG	SEL	F	P	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	3.177 50 GHz	-61.950 dBm																																																																																													
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 20 dB Ref 0.00 dBm Mkr3 439.34 MHz -57.743 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>TRG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>480.08 MHz</td><td>-31.708 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>980.23 MHz</td><td>-43.439 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>439.34 MHz</td><td>-57.743 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></table> 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	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	480.08 MHz	-31.708 dBm				2	N	1	f	980.23 MHz	-43.439 dBm				3	N	1	f	439.34 MHz	-57.743 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.899500000 GHz Ref Offset 20 dB Ref 0.00 dBm Mkr1 4.320 GHz -50.499 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.333 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.899500000 GHz Start Freq 1.000000000 GHz Stop Freq 4.799000000 GHz CF Step 379.900000 MHz Freq Offset 0 Hz																																																																																																												

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TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Swept SA RL RF SD AC SENSE-PULSE ALIGN AUTO 09:35:05 AM Jan 11, 2023 Center Freq 2.675000000 GHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr Avg/Hold: 33/100 TRACE 1 2 3 4 5 TYPE M W W W W W W W DEF N N N N N N Ref Offset 20 dB Ref 0.00 dBm Mkr1 1.30485 GHz -46.328 dBm 10 dB/div Log Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.350 GHz Sweep 5.600 ms (1001 pts) File <Temp.png> saved MISO STATUS Frequency Auto Tune Center Freq 2.675000000 GHz Start Freq 1.000000000 GHz Stop Freq 4.350000000 GHz CF Step 335.000000 MHz Auto Man Freq Offset 0 Hz																																																																																																												

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