

Project No.	SHT2101077003EW		
Test sample No.	YPHT21010770004	Model No.	DH-9800
Start test date	2021/3/2	Finish date	2021/3/3
Temperature	22.4℃	Humidity	51%
Test Engineer	Zijian Li	Auditor	Xiaodong Zhu

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	3/2	PASS
B	Occupied Bandwidth	3/2	PASS
C	Emission Mask	3/2	PASS
D	Modulation Limit	3/3	PASS
E	Audio Frequency Response	3/3	PASS
F	Frequency Stability Test & Temperature	3/2	PASS
G	Frequency Stability Test & Voltage	3/2	PASS
H	Transmitter Frequency Behavior	3/2	PASS
I	Spurious Emission On Antenna Port	3/3	PASS

Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.3	4.27	4.00	6.6	±20	PASS
TX-DNH	4FSK	CH _M	36.0	3.98	4.00	-0.5	±20	PASS
TX-DNH	4FSK	CH _H	36.3	4.27	4.00	6.6	±20	PASS
TX-DNL	4FSK	CH _L	30.1	1.02	1.00	2.3	±20	PASS
TX-DNL	4FSK	CH _M	30.3	1.07	1.00	7.2	±20	PASS
TX-DNL	4FSK	CH _H	29.8	0.95	1.00	-4.5	±20	PASS
TX-ANH	FM	CH _L	36.8	4.76	4.00	19.1	±20	PASS
TX-ANH	FM	CH _M	36.8	4.79	4.00	19.7	±20	PASS
TX-ANH	FM	CH _H	36.8	4.73	4.00	18.3	±20	PASS
TX-ANL	FM	CH _L	30.5	1.13	1.00	12.7	±20	PASS
TX-ANL	FM	CH _M	30.5	1.12	1.00	12.2	±20	PASS
TX-ANL	FM	CH _H	30.4	1.10	1.00	9.6	±20	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	6.943	9.223	≤11.25	PASS
TX-DNH	4FSK	CH _M	6.993	9.187	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.043	9.204	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.043	9.214	≤11.25	PASS
TX-DNL	4FSK	CH _M	6.993	9.195	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.093	9.223	≤11.25	PASS
TX-ANH	FM	CH _L	5.944	10.738	≤11.25	PASS
TX-ANH	FM	CH _M	5.894	10.683	≤11.25	PASS
TX-ANH	FM	CH _H	5.994	10.768	≤11.25	PASS
TX-ANL	FM	CH _L	5.894	10.747	≤11.25	PASS
TX-ANL	FM	CH _M	5.894	10.668	≤11.25	PASS
TX-ANL	FM	CH _H	5.994	10.828	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																			
TX-DNH	4FSK	CH _L	MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 31.030 dBm D2[1] -1.01 dB M1[1] 9.2230 kHz 450.0079380 MHz CF 450.0125 MHz 1001 pts 5.0 kHz / Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>450.007938 MHz</td><td>6.04 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>450.0091034 MHz</td><td>12.96 dBm</td><td>Occ Bw</td><td>6.943056943 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>450.0160465 MHz</td><td>11.02 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>9.223 kHz</td><td>-1.01 dB</td><td></td><td></td></tr></table> Date: 2.MAR.2021 16:30:41	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		450.007938 MHz	6.04 dBm			T1	1		450.0091034 MHz	12.96 dBm	Occ Bw	6.943056943 kHz	T2	1		450.0160465 MHz	11.02 dBm			D2	M1	1	9.223 kHz	-1.01 dB		
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TX-DNH	4FSK	CH _M	MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 30.900 dBm D2[1] 0.55 dB M1[1] 9.1870 kHz 480.9954100 MHz CF 481.0 MHz 1001 pts 5.0 kHz / Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>480.99541 MHz</td><td>5.09 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>480.9965334 MHz</td><td>13.17 dBm</td><td>Occ Bw</td><td>6.993006993 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>481.0035465 MHz</td><td>11.62 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>9.187 kHz</td><td>0.55 dB</td><td></td><td></td></tr></table> Date: 2.MAR.2021 16:27:34	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		480.99541 MHz	5.09 dBm			T1	1		480.9965334 MHz	13.17 dBm	Occ Bw	6.993006993 kHz	T2	1		481.0035465 MHz	11.62 dBm			D2	M1	1	9.187 kHz	0.55 dB		
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TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 30.620 dBm D2[1] 0.34 dB M1[1] 9.2040 kHz 511.9829010 MHz CF 511.9875 MHz 1001 pts 5.0 kHz / Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>511.982901 MHz</td><td>6.23 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>511.9840035 MHz</td><td>12.71 dBm</td><td>Occ Bw</td><td>7.042957043 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>511.9910465 MHz</td><td>11.28 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>9.204 kHz</td><td>0.34 dB</td><td></td><td></td></tr></table> Date: 2.MAR.2021 16:25:51	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		511.982901 MHz	6.23 dBm			T1	1		511.9840035 MHz	12.71 dBm	Occ Bw	7.042957043 kHz	T2	1		511.9910465 MHz	11.28 dBm			D2	M1	1	9.204 kHz	0.34 dB		
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																			
TX-DNL	4FSK	CH _L	MultiViewSpectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 24.920 dBm D2[1] 1.44 dB M1[1] 9.2140 kHz 450.0079190 MHz CF 450.0125 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>450.007919 MHz</td><td>-2.49 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>450.0090534 MHz</td><td>6.40 dBm</td><td>Occ Bw</td><td>7.042957043 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>450.0160964 MHz</td><td>5.44 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>9.214 kHz</td><td>1.44 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:32:47 Date: 2.MAR.2021 16:32:47	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		450.007919 MHz	-2.49 dBm			T1	1		450.0090534 MHz	6.40 dBm	Occ Bw	7.042957043 kHz	T2	1		450.0160964 MHz	5.44 dBm			D2	M1	1	9.214 kHz	1.44 dB		
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TX-DNL	4FSK	CH _M	MultiViewSpectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 24.960 dBm D2[1] 1.08 dB M1[1] 9.1950 kHz 480.9954240 MHz CF 481.0 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>480.995424 MHz</td><td>-1.05 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>480.9965534 MHz</td><td>7.54 dBm</td><td>Occ Bw</td><td>6.993006993 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>481.0035465 MHz</td><td>5.64 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>9.195 kHz</td><td>1.08 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:34:27 Date: 2.MAR.2021 16:34:27	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		480.995424 MHz	-1.05 dBm			T1	1		480.9965534 MHz	7.54 dBm	Occ Bw	6.993006993 kHz	T2	1		481.0035465 MHz	5.64 dBm			D2	M1	1	9.195 kHz	1.08 dB		
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Appendix B:Occupied Bandwidth

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TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 32.780 dBm D2[1] 10.7380 kHz M1[1] 450.0071280 MHz H2 6.780 dBm CF 450.0125 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>450.007128 MHz</td><td>7.51 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>450.009503 MHz</td><td>13.64 dBm</td><td>Occ Bw</td><td>5.944055944 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>450.0154471 MHz</td><td>12.60 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.738 kHz</td><td>-0.59 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:14:43 <tr><td>TX-ANH</td><td>FM</td><td>CH_M</td><td> MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 33.130 dBm D2[1] 10.6830 kHz M1[1] 480.9946120 MHz H2 7.130 dBm CF 481.0 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>480.994612 MHz</td><td>8.17 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>480.997003 MHz</td><td>15.92 dBm</td><td>Occ Bw</td><td>5.894105894 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>481.0036971 MHz</td><td>14.85 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.683 kHz</td><td>-0.68 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:20:51 <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 32.990 dBm D2[1] 10.7680 kHz M1[1] 511.9820480 MHz H2 6.990 dBm CF 511.9875 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T2	1		450.0154471 MHz	12.60 dBm																																																																																																																
D2	M1	1	10.738 kHz	-0.59 dB																																																																																																																
TX-ANH	FM	CH _M	MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 33.130 dBm D2[1] 10.6830 kHz M1[1] 480.9946120 MHz H2 7.130 dBm CF 481.0 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>480.994612 MHz</td><td>8.17 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>480.997003 MHz</td><td>15.92 dBm</td><td>Occ Bw</td><td>5.894105894 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>481.0036971 MHz</td><td>14.85 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.683 kHz</td><td>-0.68 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:20:51 <tr><td>TX-ANH</td><td>FM</td><td>CH_H</td><td> MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 32.990 dBm D2[1] 10.7680 kHz M1[1] 511.9820480 MHz H2 6.990 dBm CF 511.9875 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>511.982048 MHz</td><td>6.25 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>511.984453 MHz</td><td>12.09 dBm</td><td>Occ Bw</td><td>5.994005994 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>511.9904471 MHz</td><td>11.17 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.768 kHz</td><td>2.46 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:23:00 </td></tr>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		480.994612 MHz	8.17 dBm			T1	1		480.997003 MHz	15.92 dBm	Occ Bw	5.894105894 kHz	T2	1		481.0036971 MHz	14.85 dBm			D2	M1	1	10.683 kHz	-0.68 dB			TX-ANH	FM	CH _H	MultiViewSpectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 32.990 dBm D2[1] 10.7680 kHz M1[1] 511.9820480 MHz H2 6.990 dBm CF 511.9875 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>511.982048 MHz</td><td>6.25 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>511.984453 MHz</td><td>12.09 dBm</td><td>Occ Bw</td><td>5.994005994 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>511.9904471 MHz</td><td>11.17 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.768 kHz</td><td>2.46 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:23:00	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		511.982048 MHz	6.25 dBm			T1	1		511.984453 MHz	12.09 dBm	Occ Bw	5.994005994 kHz	T2	1		511.9904471 MHz	11.17 dBm			D2	M1	1	10.768 kHz	2.46 dB																																									
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D2	M1	1	10.768 kHz	2.46 dB																																																																																																																

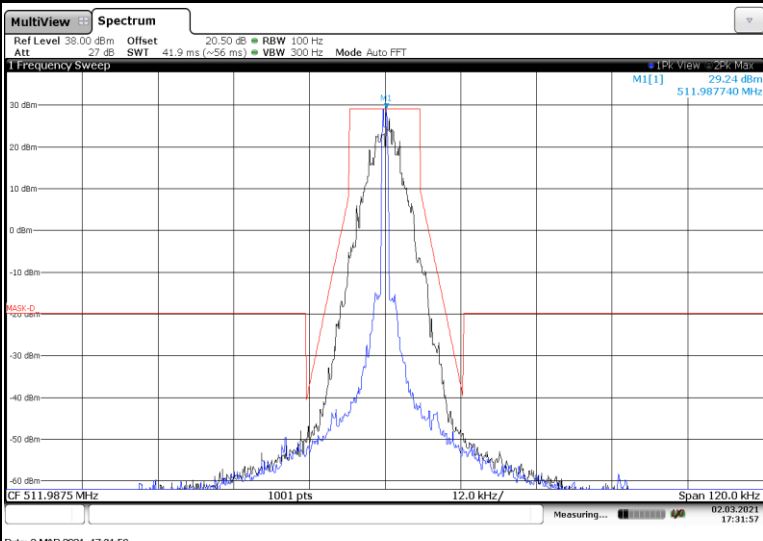
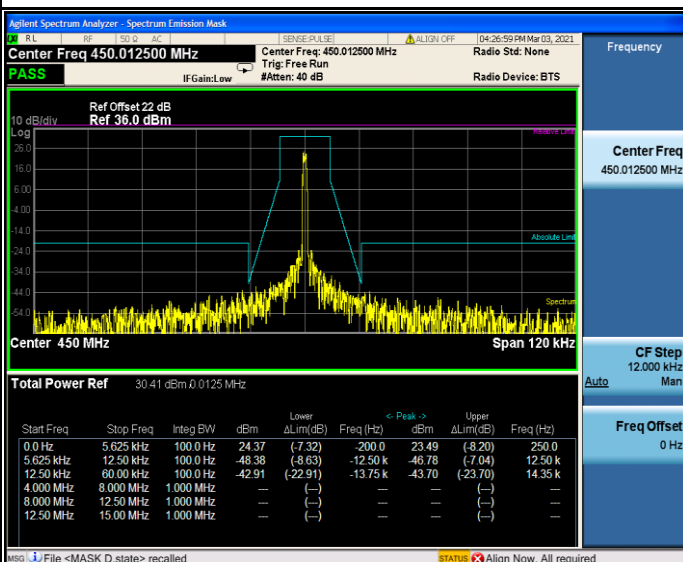
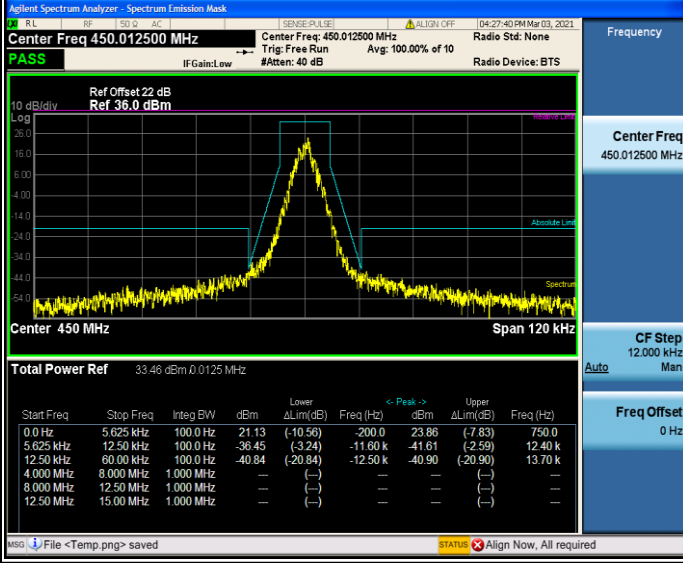
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																			
TX-ANL	FM	CH _L	MultiViewSpectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 26.660 dBm D2[1] 0.99 dB M1[1] 10.7470 kHz 450.0071050 MHz CF 450.0125 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>450.007105 MHz</td><td>0.65 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>450.0095529 MHz</td><td>10.98 dBm</td><td>Occ Bw</td><td>5.894105894 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>450.0154471 MHz</td><td>7.75 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.747 kHz</td><td>0.99 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:43:41 Date: 2.MAR.2021 16:43:41	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		450.007105 MHz	0.65 dBm			T1	1		450.0095529 MHz	10.98 dBm	Occ Bw	5.894105894 kHz	T2	1		450.0154471 MHz	7.75 dBm			D2	M1	1	10.747 kHz	0.99 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																
M1	1		450.007105 MHz	0.65 dBm																																		
T1	1		450.0095529 MHz	10.98 dBm	Occ Bw	5.894105894 kHz																																
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TX-ANL	FM	CH _M	MultiViewSpectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 27.180 dBm D2[1] 0.10 dB M1[1] 10.6680 kHz 480.9946280 MHz CF 481.0 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>480.994628 MHz</td><td>2.23 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>480.997003 MHz</td><td>9.04 dBm</td><td>Occ Bw</td><td>5.894105894 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>481.0029971 MHz</td><td>9.93 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.668 kHz</td><td>0.10 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:41:40 Date: 2.MAR.2021 16:41:40	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		480.994628 MHz	2.23 dBm			T1	1		480.997003 MHz	9.04 dBm	Occ Bw	5.894105894 kHz	T2	1		481.0029971 MHz	9.93 dBm			D2	M1	1	10.668 kHz	0.10 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																
M1	1		480.994628 MHz	2.23 dBm																																		
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D2	M1	1	10.668 kHz	0.10 dB																																		
TX-ANL	FM	CH _H	MultiViewSpectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Occupied Bandwidth H1 26.290 dBm D2[1] 0.47 dB M1[1] 10.8280 kHz 511.9820390 MHz CF 511.9875 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>511.982039 MHz</td><td>-0.54 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>511.984453 MHz</td><td>5.03 dBm</td><td>Occ Bw</td><td>5.994005994 kHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>511.9904471 MHz</td><td>5.64 dBm</td><td></td><td></td></tr><tr><td>D2</td><td>M1</td><td>1</td><td>10.828 kHz</td><td>0.47 dB</td><td></td><td></td></tr></table> Measuring... 02.03.2021 16:40:06 Date: 2.MAR.2021 16:40:06	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		511.982039 MHz	-0.54 dBm			T1	1		511.984453 MHz	5.03 dBm	Occ Bw	5.994005994 kHz	T2	1		511.9904471 MHz	5.64 dBm			D2	M1	1	10.828 kHz	0.47 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: OFF 04-29-45 PM Mar 03, 2021 Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 30.0 22.0 12.0 2.00 -18.0 -28.0 -38.0 -48.0 Center 450 MHz Span 120 kHz Total Power Ref 36.13 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>29.19</td><td>(-8.39)</td><td>-200.0</td><td>30.27</td><td>(-7.30)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.13</td><td>(-8.36)</td><td>-11.80 k</td><td>-36.53</td><td>(-3.03)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.83</td><td>(-18.83)</td><td>-13.20 k</td><td>-37.55</td><td>(-17.55)</td><td>12.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK D.state> recalled STATUS Align Now, All required Frequency Center Freq 450.012500 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 > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.19	(-8.39)	-200.0	30.27	(-7.30)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.13	(-8.36)	-11.80 k	-36.53	(-3.03)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.83	(-18.83)	-13.20 k	-37.55	(-17.55)	12.70 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-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: OFF 04-29-28 PM Mar 03, 2021 Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 30.0 22.0 12.0 2.00 -18.0 -28.0 -38.0 -48.0 Center 450 MHz Span 120 kHz Total Power Ref 39.25 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>26.61</td><td>(-10.96)</td><td>-150.0</td><td>27.87</td><td>(-9.71)</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.61</td><td>(-0.84)</td><td>-12.35 k</td><td>-37.09</td><td>(-3.59)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.86</td><td>(-10.86)</td><td>-13.00 k</td><td>-33.55</td><td>(-13.55)</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></table> File <Temp.png> saved STATUS Align Now, All required Frequency Center Freq 450.012500 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 > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.61	(-10.96)	-150.0	27.87	(-9.71)	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.61	(-0.84)	-12.35 k	-37.09	(-3.59)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.86	(-10.86)	-13.00 k	-33.55	(-13.55)	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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _M	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (<56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1001 pts 12.0 kHz/ Span 120.0 kHz 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 481.0 MHz 481.000240 MHz Measuring... 02.03.2021 17:28:58 Mask D 28.77 dBm																																																															

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	 MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWI 41.9 ms (<56 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep M1[1] 29.24 dBm 511.987740 MHz CF 511.9875 MHz 1001 pts 12.0 kHz / Span 120.0 kHz Date: 2.MAR.2021 17:31:56
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 450 MHz Span 120 kHz Total Power Ref 30.41 dBm @ 0.0125 MHz Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) < Peak > dBm Upper ΔLim(dB) Freq (Hz) 0.0 Hz 5.625 kHz 100.0 Hz 24.37 (-7.32) -200.0 23.49 (-8.20) 250.0 5.625 kHz 12.50 kHz 100.0 Hz -48.38 (-8.63) -12.50 k -46.78 (-7.04) 12.50 k 12.50 kHz 60.00 kHz 100.0 Hz -42.91 (-22.91) -13.75 k -43.70 (-23.70) 14.35 k 4.000 MHz 8.000 MHz 1.000 MHz - (-) - (-) - (-) - 8.000 MHz 12.50 MHz 1.000 MHz - (-) - (-) - (-) - 12.50 MHz 15.00 MHz 1.000 MHz - (-) - (-) - (-) - MSO File <MASK.D.slate> recalled STATUS Align Now, All required
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm Center 450 MHz Span 120 kHz Total Power Ref 33.46 dBm @ 0.0125 MHz Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) < Peak > dBm Upper ΔLim(dB) Freq (Hz) 0.0 Hz 5.625 kHz 100.0 Hz 21.13 (-10.56) -200.0 23.86 (-7.83) 750.0 5.625 kHz 12.50 kHz 100.0 Hz -36.45 (-3.24) -11.60 k -41.61 (-2.59) 12.40 k 12.50 kHz 60.00 kHz 100.0 Hz -40.84 (-20.84) -12.50 k -40.90 (-20.90) 13.70 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 - (-) - (-) - (-) - MSO File <Temp.png> saved STATUS Align Now, All required

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _M	MultiView Spectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWI 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1PK View 2PK Max M1[1] 27.42 dBm 481.000240 MHz CF 481.0 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:13:04 Date: 2.MAR.2021 17:13:04
TX-DNL	4FSK	CH _H	MultiView Spectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWI 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1PK View 2PK Max M1[1] 27.04 dBm 511.987260 MHz CF 511.9875 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:10:31 Date: 2.MAR.2021 17:10:31
TX-ANH	FM	CH _L	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWI 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1PK View 2PK Max M1[1] 28.81 dBm 450.012260 MHz CF 450.0125 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 18:44:08 Date: 2.MAR.2021 18:44:07

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _M	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1PK View 2PK Max M1[1] 28.77 dBm 481.000240 MHz CF 481.0 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:41:26 Date: 2.MAR.2021 17:41:26
TX-ANH	FM	CH _H	MultiView Spectrum Ref Level 38.00 dBm Offset 20.50 dB RBW 100 Hz Att 27 dB SWT 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1PK View 2PK Max M1[1] 29.26 dBm 511.987260 MHz CF 511.9875 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:37:47 Date: 2.MAR.2021 17:37:47
TX-ANL	FM	CH _L	MultiView Spectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep 1PK View 2PK View M1[1] 27.26 dBm 450.012260 MHz CF 450.0125 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:01:18 Date: 2.MAR.2021 17:01:18

Appendix C:Emission Mask

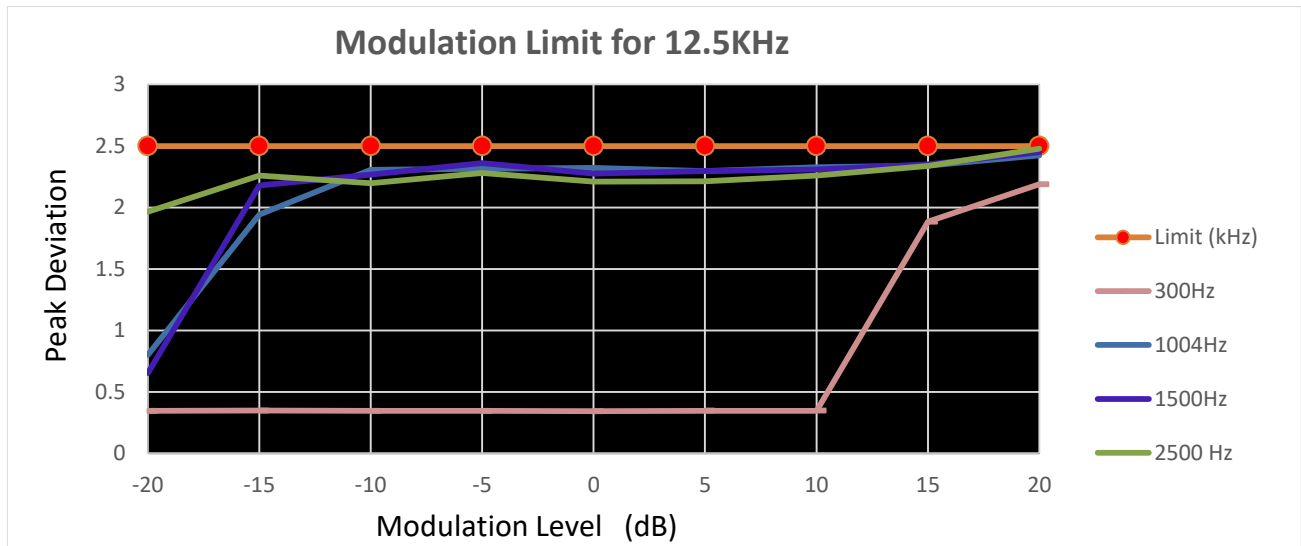
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _M	MultiView Spectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep IPK View 2PK Max M1[1] 27.44 dBm 481.000240 MHz Mask-D CF 481.0 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:05:11 Date: 2.MAR.2021 17:05:11
TX-ANL	FM	CH _H	MultiView Spectrum Ref Level 32.00 dBm Offset 20.50 dB RBW 100 Hz Att 21 dB SWT 41.9 ms (~56 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep IPK View 2PK View M1[1] 27.11 dBm 511.987740 MHz Mask-D CF 511.9875 MHz 1001 pts 12.0 kHz/ Span 120.0 kHz Measuring... 02.03.2021 17:08:12 Date: 2.MAR.2021 17:08:11

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	0.346	0.801	0.653	1.966	2.5	PASS
TX-ANH	FM	CH _M	-15	0.349	1.942	2.178	2.259	2.5	PASS
TX-ANH	FM	CH _M	-10	0.346	2.305	2.268	2.196	2.5	PASS
TX-ANH	FM	CH _M	-5	0.346	2.313	2.361	2.280	2.5	PASS
TX-ANH	FM	CH _M	0	0.344	2.323	2.275	2.210	2.5	PASS
TX-ANH	FM	CH _M	5	0.348	2.296	2.297	2.213	2.5	PASS
TX-ANH	FM	CH _M	10	0.348	2.327	2.310	2.259	2.5	PASS
TX-ANH	FM	CH _M	15	1.884	2.340	2.351	2.338	2.5	PASS
TX-ANH	FM	CH _M	20	2.188	2.423	2.449	2.478	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

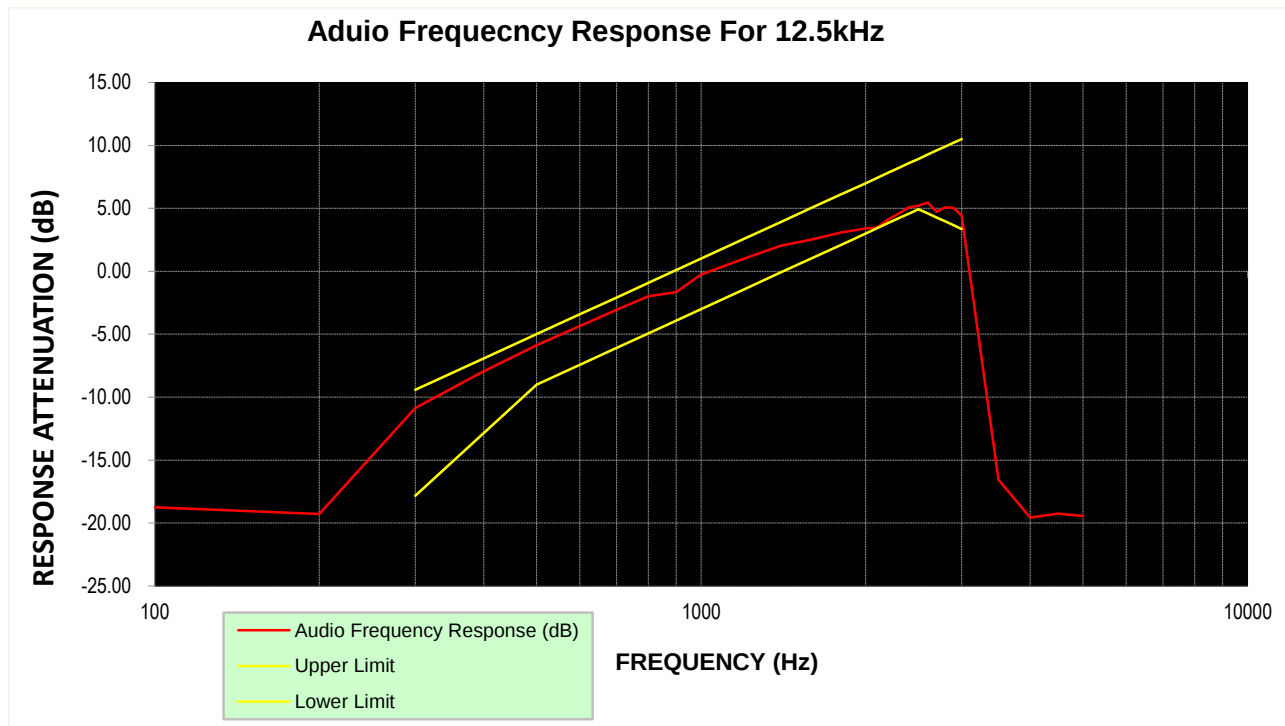


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-18.75			PASS
TX-ANH	FM	CH _M	200	-19.28			PASS
TX-ANH	FM	CH _M	300	-10.86	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-7.94	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-5.88	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-4.36	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.06	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-1.98	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-1.66	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	-0.25	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.01	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	2.02	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	2.54	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	3.06	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	3.41	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	3.48	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	4.12	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	4.58	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	5.07	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	5.20	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	5.46	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	4.72	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	5.08	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	5.03	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	4.42	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	-16.56			PASS
TX-ANH	FM	CH _M	4000	-19.57			PASS
TX-ANH	FM	CH _M	4500	-19.26			PASS
TX-ANH	FM	CH _M	5000	-19.45			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



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

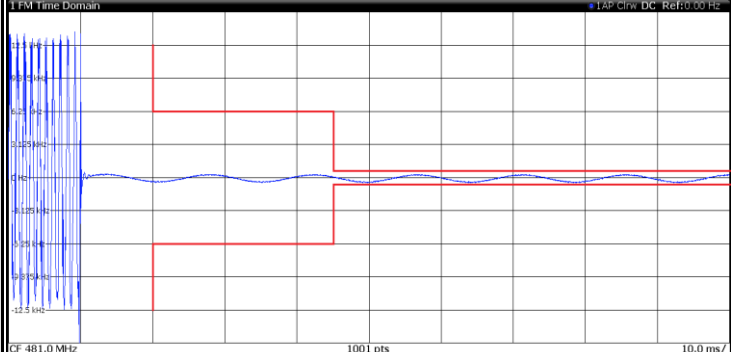
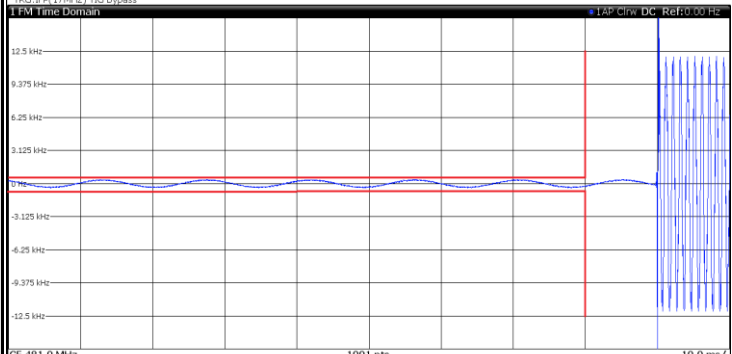
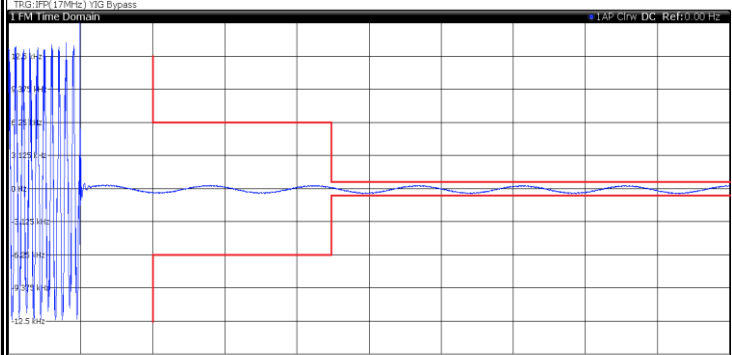
Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	-30	0.011	0.016	0.023	±2.5	PASS
TX-DNH	4FSK	V _N	-20	0.012	0.015	0.024	±2.5	PASS
TX-DNH	4FSK	V _N	-10	0.011	0.016	0.023	±2.5	PASS
TX-DNH	4FSK	V _N	0	0.012	0.016	0.022	±2.5	PASS
TX-DNH	4FSK	V _N	10	0.011	0.016	0.024	±2.5	PASS
TX-DNH	4FSK	V _N	20	0.011	0.015	0.022	±2.5	PASS
TX-DNH	4FSK	V _N	30	0.011	0.016	0.024	±2.5	PASS
TX-DNH	4FSK	V _N	40	0.012	0.015	0.023	±2.5	PASS
TX-DNH	4FSK	V _N	50	0.011	0.016	0.024	±2.5	PASS
TX-DNL	4FSK	V _N	-30	0.033	0.034	0.028	±2.5	PASS
TX-DNL	4FSK	V _N	-20	0.033	0.032	0.028	±2.5	PASS
TX-DNL	4FSK	V _N	-10	0.030	0.035	0.029	±2.5	PASS
TX-DNL	4FSK	V _N	0	0.033	0.034	0.028	±2.5	PASS
TX-DNL	4FSK	V _N	10	0.030	0.032	0.030	±2.5	PASS
TX-DNL	4FSK	V _N	20	0.030	0.032	0.027	±2.5	PASS
TX-DNL	4FSK	V _N	30	0.033	0.035	0.028	±2.5	PASS
TX-DNL	4FSK	V _N	40	0.031	0.032	0.028	±2.5	PASS
TX-DNL	4FSK	V _N	50	0.032	0.034	0.028	±2.5	PASS
TX-ANH	FM	V _N	-30	0.139	0.084	0.062	±2.5	PASS
TX-ANH	FM	V _N	-20	0.136	0.079	0.061	±2.5	PASS
TX-ANH	FM	V _N	-10	0.136	0.080	0.060	±2.5	PASS
TX-ANH	FM	V _N	0	0.137	0.079	0.063	±2.5	PASS
TX-ANH	FM	V _N	10	0.134	0.083	0.061	±2.5	PASS
TX-ANH	FM	V _N	20	0.127	0.077	0.058	±2.5	PASS
TX-ANH	FM	V _N	30	0.131	0.080	0.063	±2.5	PASS
TX-ANH	FM	V _N	40	0.134	0.084	0.059	±2.5	PASS
TX-ANH	FM	V _N	50	0.129	0.084	0.061	±2.5	PASS
TX-ANL	FM	V _N	-30	0.142	0.042	0.163	±2.5	PASS
TX-ANL	FM	V _N	-20	0.143	0.044	0.168	±2.5	PASS
TX-ANL	FM	V _N	-10	0.140	0.045	0.163	±2.5	PASS
TX-ANL	FM	V _N	0	0.147	0.045	0.155	±2.5	PASS
TX-ANL	FM	V _N	10	0.150	0.043	0.156	±2.5	PASS
TX-ANL	FM	V _N	20	0.138	0.041	0.153	±2.5	PASS
TX-ANL	FM	V _N	30	0.151	0.045	0.157	±2.5	PASS
TX-ANL	FM	V _N	40	0.141	0.044	0.158	±2.5	PASS
TX-ANL	FM	V _N	50	0.140	0.044	0.154	±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 _M	CH _H		
TX-DNH	4FSK	V _N	T _N	0.011	0.015	0.022	±2.5	PASS
TX-DNH	4FSK	V _L	T _N	0.011	0.015	0.022	±2.5	PASS
TX-DNH	4FSK	V _H	T _N	0.011	0.016	0.023	±2.5	PASS
TX-DNL	4FSK	V _N	T _N	0.030	0.032	0.027	±2.5	PASS
TX-DNL	4FSK	V _L	T _N	0.030	0.033	0.027	±2.5	PASS
TX-DNL	4FSK	V _H	T _N	0.032	0.034	0.028	±2.5	PASS
TX-ANH	FM	V _N	T _N	0.127	0.077	0.058	±2.5	PASS
TX-ANH	FM	V _L	T _N	0.127	0.079	0.059	±2.5	PASS
TX-ANH	FM	V _H	T _N	0.129	0.078	0.059	±2.5	PASS
TX-ANL	FM	V _N	T _N	0.138	0.041	0.153	±2.5	PASS
TX-ANL	FM	V _L	T _N	0.139	0.041	0.155	±2.5	PASS
TX-ANL	FM	V _H	T _N	0.140	0.043	0.157	±2.5	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																					
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 20.50 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 481.0 MHz TRIG:JPR (17MHz) YIG Bypass 1 FM Time Domain  CF 481.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 32.05 dBm</td><td colspan="2">Carrier Offset -104.29 Hz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td></td><td></td><td></td></tr><tr><td>FM 13.754 kHz</td><td>-16.506 kHz</td><td>15.13 kHz</td><td>2.8268 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 02/03/2021 18:55:38 Date: 2.MAR.2021 18:55:37 OFF~ON	Carrier Power 32.05 dBm		Carrier Offset -104.29 Hz		Mod. Freq.	SINAD	THD	+Peak	-Peak	+Peak/2	RMS				FM 13.754 kHz	-16.506 kHz	15.13 kHz	2.8268 kHz	---	---	---
Carrier Power 32.05 dBm		Carrier Offset -104.29 Hz		Mod. Freq.	SINAD	THD																		
+Peak	-Peak	+Peak/2	RMS																					
FM 13.754 kHz	-16.506 kHz	15.13 kHz	2.8268 kHz	---	---	---																		
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 20.50 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 481.0 MHz TRIG:JPR (17MHz) YIG Bypass 1 FM Time Domain  CF 481.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 32.09 dBm</td><td colspan="2">Carrier Offset -28.60 Hz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td></td><td></td><td></td></tr><tr><td>FM 21.068 kHz</td><td>-23.054 kHz</td><td>22.061 kHz</td><td>8.7852 kHz</td><td>1.0114 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 02/03/2021 18:55:01 Date: 2.MAR.2021 18:55:01 ON~OFF	Carrier Power 32.09 dBm		Carrier Offset -28.60 Hz		Mod. Freq.	SINAD	THD	+Peak	-Peak	+Peak/2	RMS				FM 21.068 kHz	-23.054 kHz	22.061 kHz	8.7852 kHz	1.0114 kHz	---	---
Carrier Power 32.09 dBm		Carrier Offset -28.60 Hz		Mod. Freq.	SINAD	THD																		
+Peak	-Peak	+Peak/2	RMS																					
FM 21.068 kHz	-23.054 kHz	22.061 kHz	8.7852 kHz	1.0114 kHz	---	---																		
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 20.50 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 481.0 MHz TRIG:JPR (17MHz) YIG Bypass 1 FM Time Domain  CF 481.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 32.04 dBm</td><td colspan="2">Carrier Offset -103.14 Hz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td></td><td></td><td></td></tr><tr><td>FM 18.863 kHz</td><td>-12.426 kHz</td><td>15.644 kHz</td><td>8.8448 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger... Measuring... 02/03/2021 18:53:11 Date: 2.MAR.2021 18:53:11 OFF~ON	Carrier Power 32.04 dBm		Carrier Offset -103.14 Hz		Mod. Freq.	SINAD	THD	+Peak	-Peak	+Peak/2	RMS				FM 18.863 kHz	-12.426 kHz	15.644 kHz	8.8448 kHz	---	---	---
Carrier Power 32.04 dBm		Carrier Offset -103.14 Hz		Mod. Freq.	SINAD	THD																		
+Peak	-Peak	+Peak/2	RMS																					
FM 18.863 kHz	-12.426 kHz	15.644 kHz	8.8448 kHz	---	---	---																		

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 20.50 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 481.0 MHz TRIG:JTR (17MHz) YIG Bypass IFM Time Domain </

ON-OFF

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M2[1] -40.36 dBm 1.350052000 GHz M1[1] -37.33 dBm 900.017000 MHz SPURIOUS_LINE_ABS_001 30.0 MHz 64002 pts 497.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>900.01734 MHz</td><td>-37.33 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.35005 GHz</td><td>-40.36 dBm</td><td>-200.00 dB</td></tr></table> Measuring...03.03.2021 09:49:56 Date: 3.MAR.2021 09:49:56	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	900.01734 MHz	-37.33 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.35005 GHz	-40.36 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	900.01734 MHz	-37.33 dBm	-200.00 dB																
1.000 GHz	5.000 GHz	1.000 MHz	1.35005 GHz	-40.36 dBm	-200.00 dB																
TX-DNH	4FSK	CH _M	MultiViewSpectrum Ref Level 20.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M2[1] -29.08 dBm 1.923909000 GHz M1[1] -31.17 dBm 1.442924000 GHz SPURIOUS_LINE_ABS_001 30.0 MHz 64002 pts 497.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>588.68738 MHz</td><td>-23.66 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.92391 GHz</td><td>-29.08 dBm</td><td>-200.00 dB</td></tr></table> Measuring...03.03.2021 10:04:40 Date: 3.MAR.2021 10:04:40	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	588.68738 MHz	-23.66 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.92391 GHz	-29.08 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	588.68738 MHz	-23.66 dBm	-200.00 dB																
1.000 GHz	5.000 GHz	1.000 MHz	1.92391 GHz	-29.08 dBm	-200.00 dB																
TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M2[1] -42.97 dBm 2.048014000 GHz M1[1] -42.93 dBm 1.536046000 GHz SPURIOUS_LINE_ABS_001 30.0 MHz 64002 pts 597.0 MHz/ 6.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>511.96684 MHz</td><td>-39.15 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>6.000 GHz</td><td>1.000 MHz</td><td>1.53600 GHz</td><td>-42.93 dBm</td><td>-200.00 dB</td></tr></table> Measuring...03.03.2021 09:57:01 Date: 3.MAR.2021 09:57:00	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	511.96684 MHz	-39.15 dBm	-200.00 dB	1.000 GHz	6.000 GHz	1.000 MHz	1.53600 GHz	-42.93 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	511.96684 MHz	-39.15 dBm	-200.00 dB																
1.000 GHz	6.000 GHz	1.000 MHz	1.53600 GHz	-42.93 dBm	-200.00 dB																

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -37.21 dBm 900.017000 MHz M2[1] -40.24 dBm 1.350067000 GHz SPURIOUS_LINE_ABS_001 30.0 MHz 64002 pts 497.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>900.01734 MHz</td><td>-37.21 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.35005 GHz</td><td>-40.24 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 03.03.2021 09:59:48 Date: 3.MAR.2021 09:59:48	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	900.01734 MHz	-37.21 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.35005 GHz	-40.24 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	900.01734 MHz	-37.21 dBm	-200.00 dB																
1.000 GHz	5.000 GHz	1.000 MHz	1.35005 GHz	-40.24 dBm	-200.00 dB																
TX-ANH	FM	CH _M	MultiViewSpectrum Ref Level 20.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M2[1] -29.19 dBm 1.923909000 GHz M1[1] -31.72 dBm 1.442924000 GHz SPURIOUS_LINE_ABS_001 30.0 MHz 64002 pts 497.0 MHz/ 5.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>961.97416 MHz</td><td>-44.84 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.92391 GHz</td><td>-29.19 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 03.03.2021 10:02:59 Date: 3.MAR.2021 10:02:58	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	961.97416 MHz	-44.84 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.92391 GHz	-29.19 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	961.97416 MHz	-44.84 dBm	-200.00 dB																
1.000 GHz	5.000 GHz	1.000 MHz	1.92391 GHz	-29.19 dBm	-200.00 dB																
TX-ANH	FM	CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 0.50 dB Mode Auto Sweep 1 Spurious Emissions M2[1] -42.99 dBm 2.048014000 GHz M1[1] -43.25 dBm 1.536046000 GHz SPURIOUS_LINE_ABS_001 30.0 MHz 64002 pts 597.0 MHz/ 6.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>511.96884 MHz</td><td>-39.17 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>6.000 GHz</td><td>1.000 MHz</td><td>2.04786 GHz</td><td>-42.90 dBm</td><td>-200.00 dB</td></tr></table> Measuring... 03.03.2021 09:58:29 Date: 3.MAR.2021 09:58:28	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	511.96884 MHz	-39.17 dBm	-200.00 dB	1.000 GHz	6.000 GHz	1.000 MHz	2.04786 GHz	-42.90 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit																
30.000 MHz	1.000 GHz	100.000 kHz	511.96884 MHz	-39.17 dBm	-200.00 dB																
1.000 GHz	6.000 GHz	1.000 MHz	2.04786 GHz	-42.90 dBm	-200.00 dB																

----End of Report----