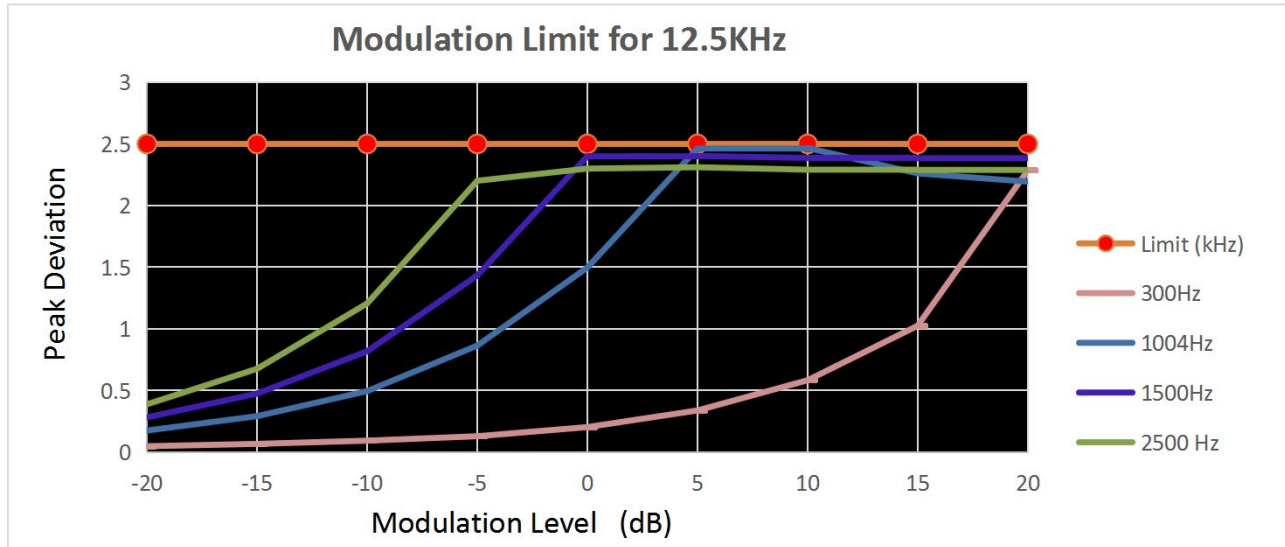


Appendix D:Modulation Limit

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	0.048	0.175	0.282	0.388	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.067	0.292	0.475	0.676	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.093	0.495	0.818	1.206	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.129	0.864	1.433	2.201	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.203	1.497	2.400	2.300	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.338	2.463	2.402	2.311	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.583	2.468	2.387	2.291	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.025	2.261	2.384	2.289	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.284	2.194	2.389	2.294	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

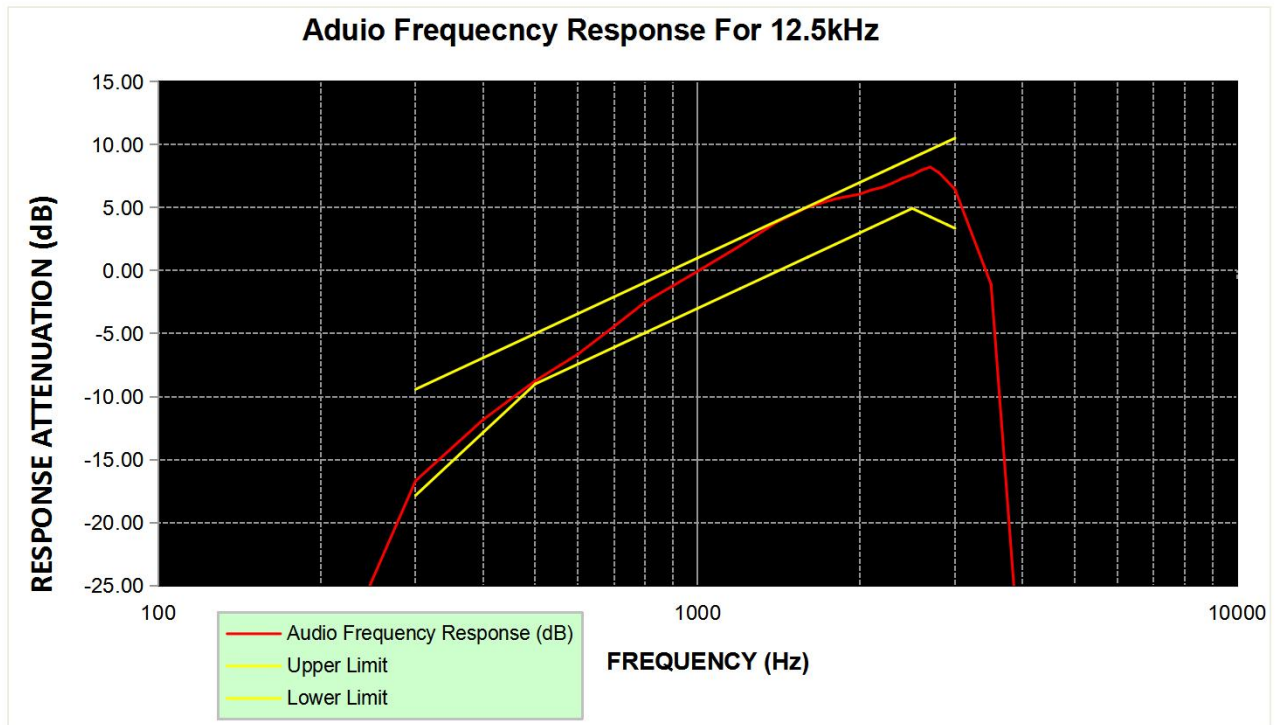


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-33.80			PASS
TX-ANH	FM	CH _{M2}	200	-33.94			PASS
TX-ANH	FM	CH _{M2}	300	-16.68	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-11.84	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-8.75	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-6.63	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-4.44	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.49	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.21	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.06	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.98	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.83	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	5.03	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.69	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.07	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.40	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	6.61	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.95	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	7.33	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	7.59	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	7.97	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.21	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.78	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.11	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.45	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-1.10			PASS
TX-ANH	FM	CH _{M2}	4000	-33.98			PASS
TX-ANH	FM	CH _{M2}	4500	-33.67			PASS
TX-ANH	FM	CH _{M2}	5000	-33.89			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 _{M1}	CH _H		
TX-DNH	4FSK	V _N	-30	0.082	0.100	0.119	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.082	0.102	0.118	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.077	0.097	0.112	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.082	0.099	0.110	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.078	0.101	0.119	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.076	0.094	0.109	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.078	0.097	0.119	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.080	0.100	0.117	±5.0	PASS
TX-DNH	4FSK	V _N	50	0.080	0.095	0.112	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.091	0.102	0.118	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.090	0.103	0.116	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.094	0.100	0.114	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.094	0.097	0.116	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.090	0.099	0.109	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.090	0.097	0.108	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.090	0.103	0.109	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.096	0.103	0.112	±5.0	PASS
TX-DNL	4FSK	V _N	50	0.099	0.101	0.116	±5.0	PASS
TX-ANH	FM	V _N	-30	0.191	0.215	0.233	±5.0	PASS
TX-ANH	FM	V _N	-20	0.197	0.210	0.245	±5.0	PASS
TX-ANH	FM	V _N	-10	0.191	0.228	0.238	±5.0	PASS
TX-ANH	FM	V _N	0	0.197	0.228	0.237	±5.0	PASS
TX-ANH	FM	V _N	10	0.194	0.216	0.243	±5.0	PASS
TX-ANH	FM	V _N	20	0.187	0.208	0.228	±5.0	PASS
TX-ANH	FM	V _N	30	0.187	0.225	0.240	±5.0	PASS
TX-ANH	FM	V _N	40	0.202	0.212	0.247	±5.0	PASS
TX-ANH	FM	V _N	50	0.190	0.210	0.233	±5.0	PASS
TX-ANL	FM	V _N	-30	0.206	0.229	0.207	±5.0	PASS
TX-ANL	FM	V _N	-20	0.196	0.226	0.209	±5.0	PASS
TX-ANL	FM	V _N	-10	0.202	0.217	0.203	±5.0	PASS
TX-ANL	FM	V _N	0	0.193	0.214	0.205	±5.0	PASS
TX-ANL	FM	V _N	10	0.203	0.221	0.203	±5.0	PASS
TX-ANL	FM	V _N	20	0.189	0.209	0.192	±5.0	PASS
TX-ANL	FM	V _N	30	0.196	0.212	0.195	±5.0	PASS
TX-ANL	FM	V _N	40	0.194	0.226	0.195	±5.0	PASS
TX-ANL	FM	V _N	50	0.200	0.220	0.208	±5.0	PASS

Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.076	0.094	0.109	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.076	0.095	0.110	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.077	0.097	0.115	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.090	0.097	0.108	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.091	0.097	0.108	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.092	0.101	0.112	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.187	0.208	0.228	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.190	0.210	0.231	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.191	0.209	0.236	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.189	0.209	0.192	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.190	0.211	0.195	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.198	0.221	0.202	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 26.50 dB Att 33 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:JPR(17MHz) YIG Bypass 1 FM Time Domain CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 36.01 dBm</td><td colspan="2">Carrier Offset 76.28 Hz</td></tr><tr><td>FM</td><td>+Peak 20.293 kHz</td><td>-Peak -27.233 kHz</td><td>+Peak/2 23.763 kHz</td></tr><tr><td></td><td>RMS 2.7973 kHz</td><td>Mod. Freq.</td><td>SINAD</td></tr></table> Analog Demod: Waiting for Trigger... Date: 19 DEC 2023 16:03:30	Carrier Power 36.01 dBm		Carrier Offset 76.28 Hz		FM	+Peak 20.293 kHz	-Peak -27.233 kHz	+Peak/2 23.763 kHz		RMS 2.7973 kHz	Mod. Freq.	SINAD
Carrier Power 36.01 dBm		Carrier Offset 76.28 Hz													
FM	+Peak 20.293 kHz	-Peak -27.233 kHz	+Peak/2 23.763 kHz												
	RMS 2.7973 kHz	Mod. Freq.	SINAD												
TX-DNH	4FSK	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 26.50 dB Att 33 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:JPR(17MHz) YIG Bypass 1 FM Time Domain CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 35.99 dBm</td><td colspan="2">Carrier Offset 64.15 Hz</td></tr><tr><td>FM</td><td>+Peak 25.407 kHz</td><td>-Peak -23.995 kHz</td><td>+Peak/2 24.701 kHz</td></tr><tr><td></td><td>RMS 2.8957 kHz</td><td>Mod. Freq.</td><td>SINAD</td></tr></table> Analog Demod: Waiting for Trigger... Date: 19 DEC 2023 16:04:32	Carrier Power 35.99 dBm		Carrier Offset 64.15 Hz		FM	+Peak 25.407 kHz	-Peak -23.995 kHz	+Peak/2 24.701 kHz		RMS 2.8957 kHz	Mod. Freq.	SINAD
Carrier Power 35.99 dBm		Carrier Offset 64.15 Hz													
FM	+Peak 25.407 kHz	-Peak -23.995 kHz	+Peak/2 24.701 kHz												
	RMS 2.8957 kHz	Mod. Freq.	SINAD												
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 26.50 dB Att 33 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:JPR(17MHz) YIG Bypass 1 FM Time Domain CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 36.02 dBm</td><td colspan="2">Carrier Offset 70.67 Hz</td></tr><tr><td>FM</td><td>+Peak 23.78 kHz</td><td>-Peak -21.882 kHz</td><td>+Peak/2 22.831 kHz</td></tr><tr><td></td><td>RMS 2.9424 kHz</td><td>Mod. Freq.</td><td>SINAD</td></tr></table> Analog Demod: Waiting for Trigger... Date: 19 DEC 2023 16:04:00	Carrier Power 36.02 dBm		Carrier Offset 70.67 Hz		FM	+Peak 23.78 kHz	-Peak -21.882 kHz	+Peak/2 22.831 kHz		RMS 2.9424 kHz	Mod. Freq.	SINAD
Carrier Power 36.02 dBm		Carrier Offset 70.67 Hz													
FM	+Peak 23.78 kHz	-Peak -21.882 kHz	+Peak/2 22.831 kHz												
	RMS 2.9424 kHz	Mod. Freq.	SINAD												

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT								
TX-ANH	FM	CH _M	MultiViewSpectrumAnalog Demod Ref Level 50.00 dBm Offset 26.50 dB Att 33 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:IFB(17MHz) VIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 435.0 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 36.00 dBm Carrier Offset 66.02 Hz <table><tr><td>FM</td><td>+Peak 23.153 kHz</td><td>-Peak -21.645 kHz</td><td>+Peak/2 22.399 kHz</td><td>RMS 2.7622 kHz</td><td>Mod. Freq.</td><td>SINAD</td><td>THD</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 19.12.2023 16:04:51	FM	+Peak 23.153 kHz	-Peak -21.645 kHz	+Peak/2 22.399 kHz	RMS 2.7622 kHz	Mod. Freq.	SINAD	THD
FM	+Peak 23.153 kHz	-Peak -21.645 kHz	+Peak/2 22.399 kHz	RMS 2.7622 kHz	Mod. Freq.	SINAD	THD				

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHL	MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																		
TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions M1[1] -36.66 dBm 3.289866000 GHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.52425 kHz</td><td>-68.93 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-65.14 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>313.97378 MHz</td><td>-31.12 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>3.28987 GHz</td><td>-36.66 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 DEC 2023 14:44:43 Aborted 15.12.2023 14:44:43 <tr><td>TX-ANH</td><td>FM</td><td>CH_L</td><td> MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions M1[1] -23.32 dBm 800.050000 MHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>47.31740 kHz</td><td>-69.77 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-66.12 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-14.01 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>4.00022 GHz</td><td>-32.74 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 DEC 2023 14:39:22 Aborted 15.12.2023 14:39:22 <tr><td>TX-ANH</td><td>FM</td><td>CH_L</td><td> MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions M1[1] -23.32 dBm 800.050000 MHz SPURIOUS_LINE_ABS_001 2 Result 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GHz	5.000 GHz	1.000 MHz	3.28987 GHz	-36.66 dBm	-200.00 dB	TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions M1[1] -23.32 dBm 800.050000 MHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>47.31740 kHz</td><td>-69.77 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-66.12 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-14.01 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>4.00022 GHz</td><td>-32.74 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 15 DEC 2023 14:39:22 Aborted 15.12.2023 14:39:22 <tr><td>TX-ANH</td><td>FM</td><td>CH_L</td><td> 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dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-66.12 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-14.01 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.00022 GHz	-32.74 dBm	-200.00 dB	TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions M1[1] -23.32 dBm 800.050000 MHz SPURIOUS_LINE_ABS_001 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>47.31740 kHz</td><td>-69.77 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-66.12 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-14.01 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>4.00022 GHz</td><td>-32.74 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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _H	MultiViewSpectrum Ref Level 25.00 dBmOffset 20.50 dBMode Auto Sweep 1 Spurious Emissions M1[1] -32.54 dBm 313.974000 MHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm SPURIOUS_LINE_ABS_001 -30 dBm M1 -40 dBm M1 -50 dBm 9.0 kHz 68704 pts 500.0 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>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>48.52425 kHz</td><td>-67.91 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-65.86 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>313.97378 MHz</td><td>-32.54 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>3.28974 GHz</td><td>-37.04 dBm</td><td>-200.00 dB</td></tr></table> Aborted 15.12.2023 14:40:09 Date: 15 DEC.2023 14:40:10	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	9.000 kHz	150.000 kHz	1.000 kHz	48.52425 kHz	-67.91 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-65.86 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	313.97378 MHz	-32.54 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	3.28974 GHz	-37.04 dBm	-200.00 dB
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