Project No.	SHT2407005804W		
Test sample No.	YPHT24070058002 02	Model No.	GX1410GPS
Start test date	2024/7/11	Finish date	2024/7/15
Temperature	25℃	Humidity	51%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhao

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

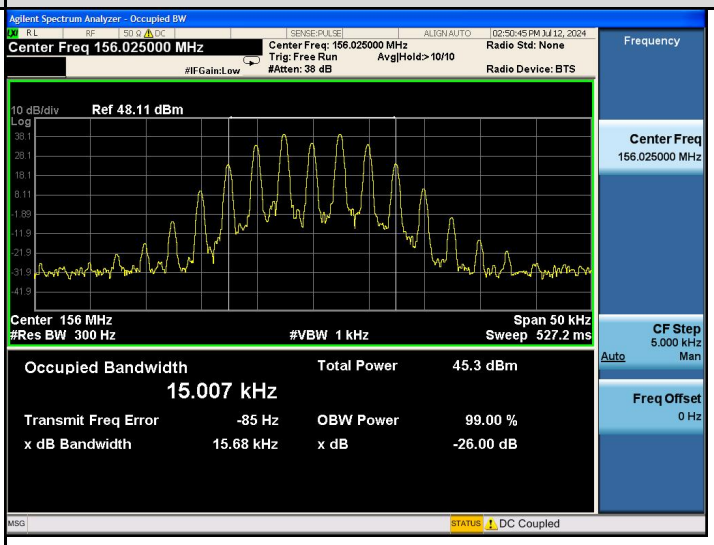
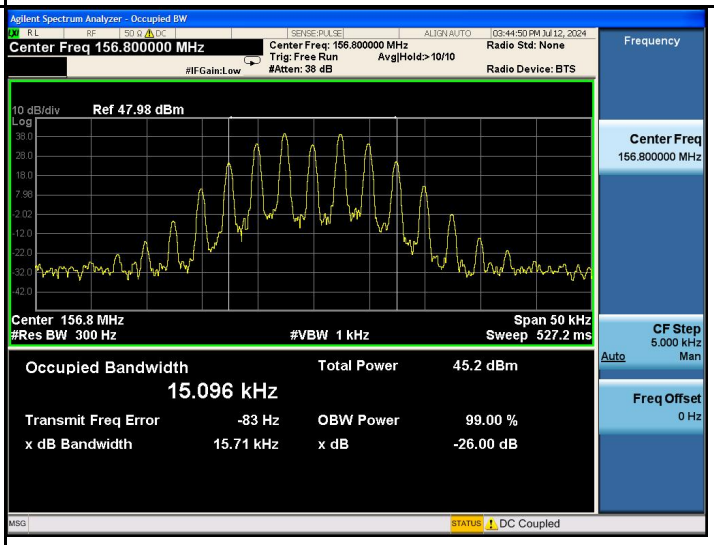
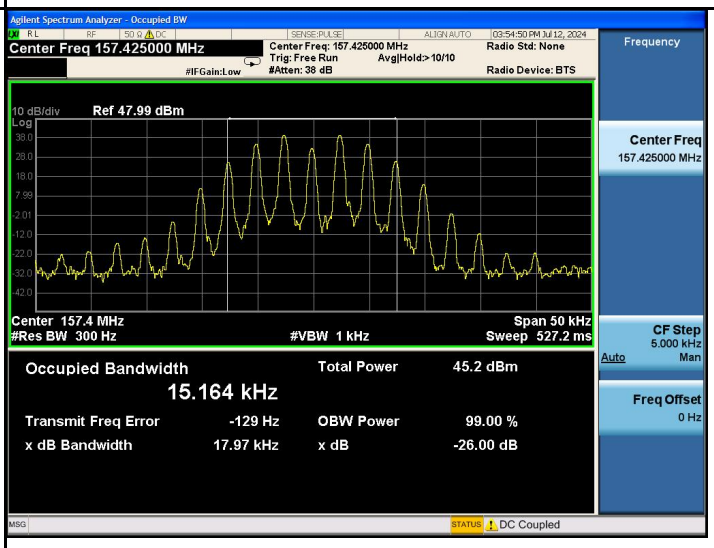
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Limit(W)	Result
TX-AWH	FM	CH_L	43.89	24.49	25	PASS
TX-AWH	FM	CH_M	43.88	24.43	25	PASS
TX-AWH	FM	CH_H	43.84	24.21	25	PASS
TX-AWL	FM	CH_L	29.10	0.81	25	PASS
TX-AWL	FM	CH_M	29.20	0.83	25	PASS
TX-AWL	FM	CH_H	28.90	0.78	25	PASS

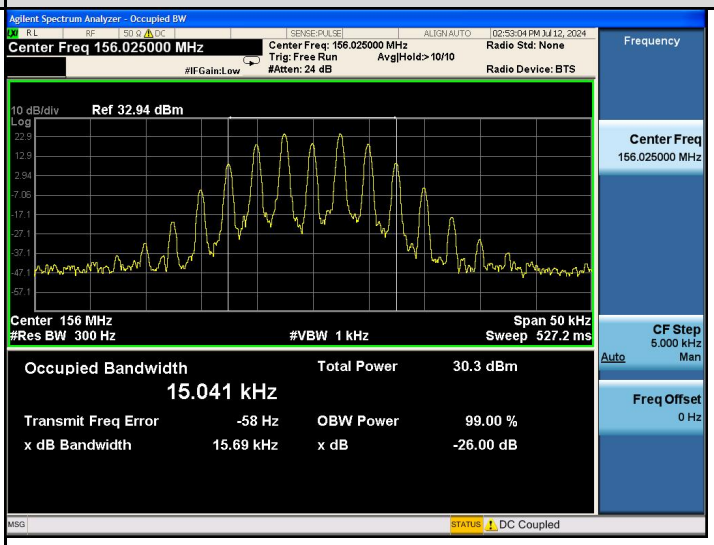
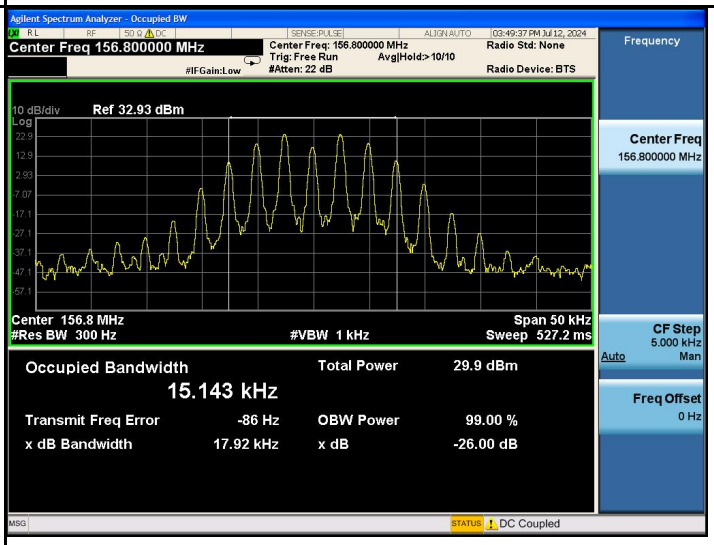
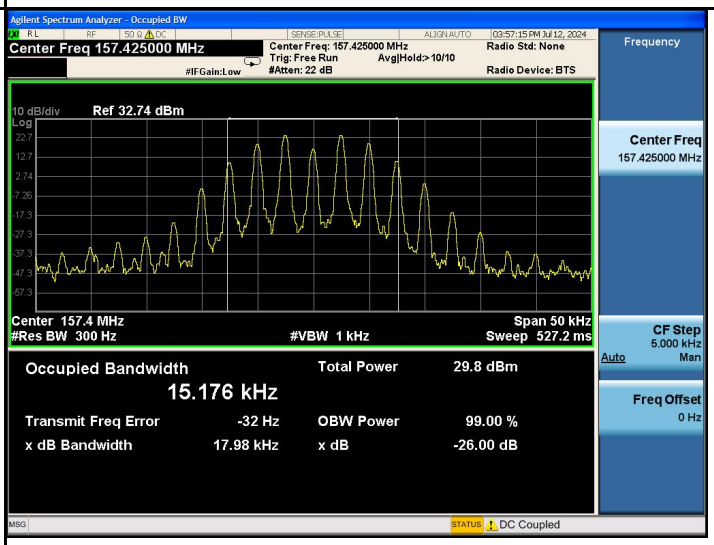
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-AWH	FM	CH_L	15.01	15.68	≤20	PASS
TX-AWH	FM	CH_M	15.10	15.71	≤20	PASS
TX-AWH	FM	CH_H	15.16	17.97	≤20	PASS
TX-AWL	FM	CH_L	15.04	15.69	≤20	PASS
TX-AWL	FM	CH_M	15.14	17.92	≤20	PASS
TX-AWL	FM	CH_H	15.18	17.98	≤20	PASS

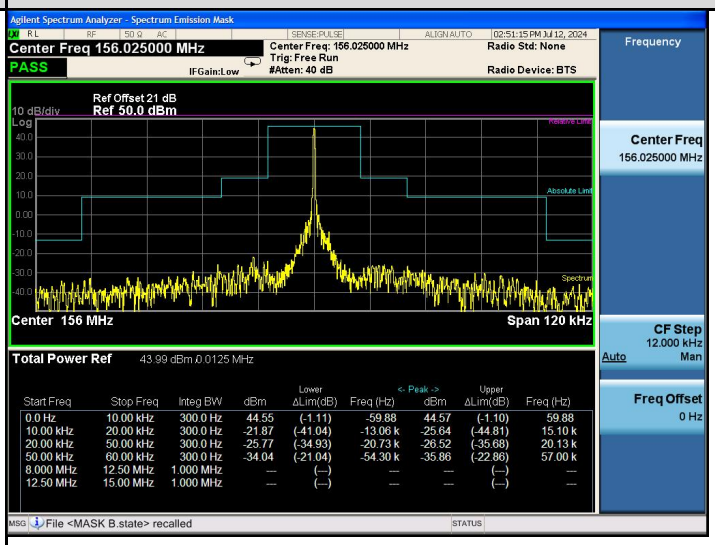
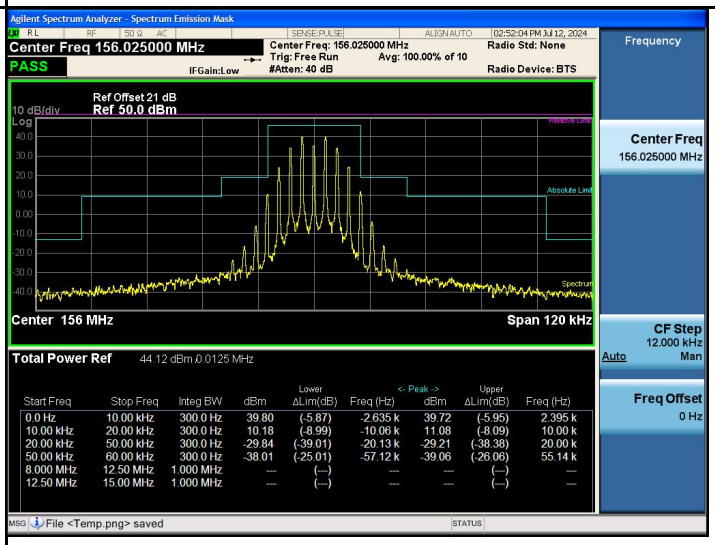
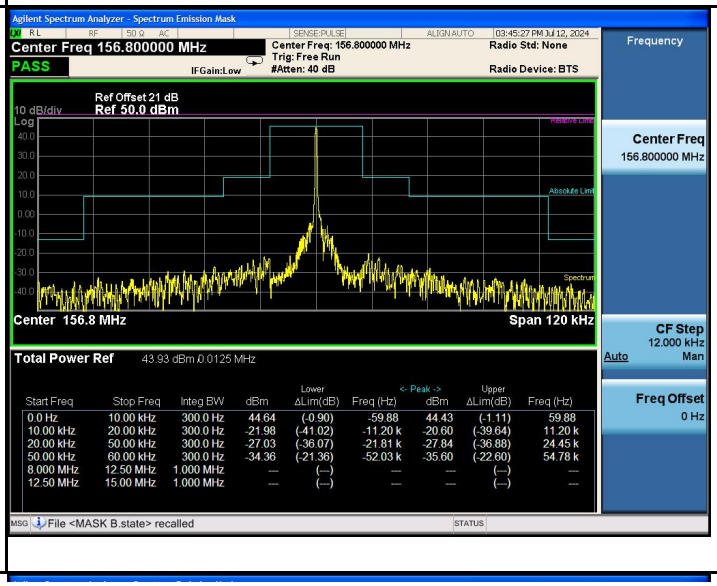
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH_L	
TX-AWH	FM	CH_M	
TX-AWH	FM	CH_H	

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH_L	
TX-AWL	FM	CH_M	
TX-AWL	FM	CH_H	

Appendix C:Emission Mask

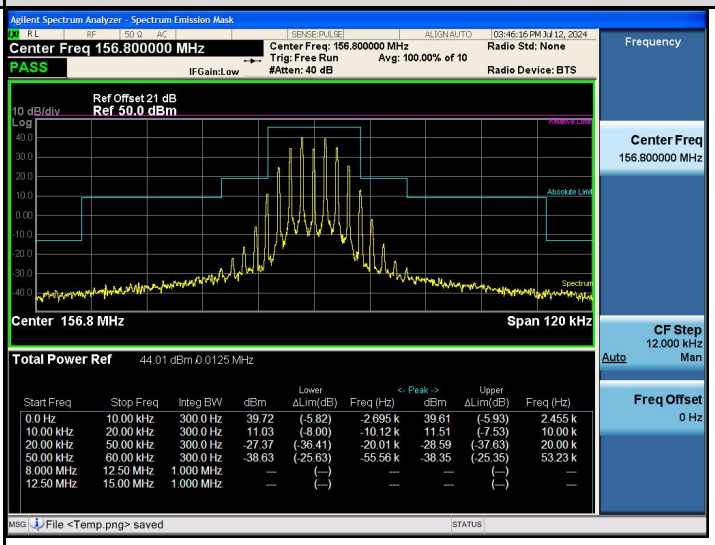
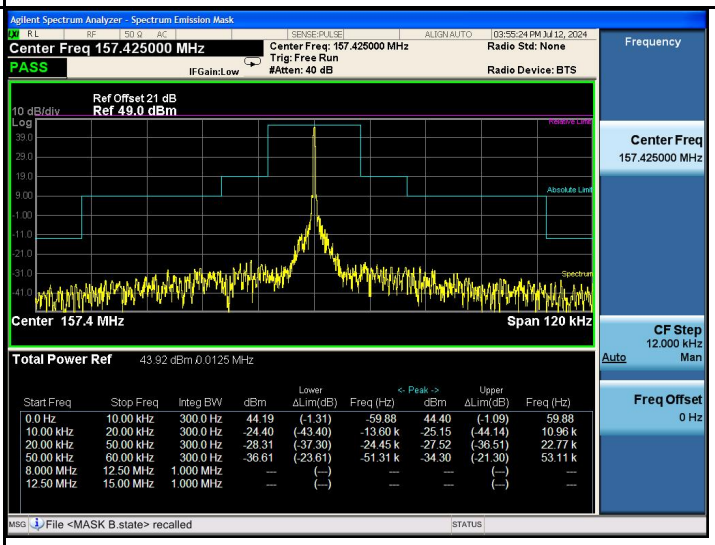
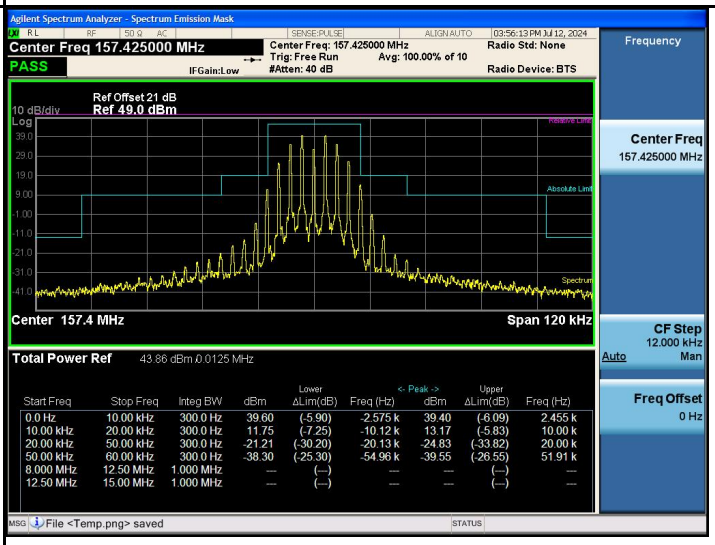
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH_L	
TX-AWH	FM	CH_L	
TX-AWH	FM	CH_M	

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	300.0 Hz	44.55	(-1.11)	-59.88	44.57	(-1.10)	59.88
10.00 kHz	20.00 kHz	300.0 Hz	-21.87	(-41.04)	-13.06 k	-25.64	(-44.81)	15.10 k
20.00 kHz	50.00 kHz	300.0 Hz	-25.77	(-34.93)	-20.73 k	-26.52	(-35.68)	20.13 k
50.00 kHz	60.00 kHz	300.0 Hz	-34.04	(-21.04)	-54.30 k	-35.86	(-22.86)	57.00 k
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

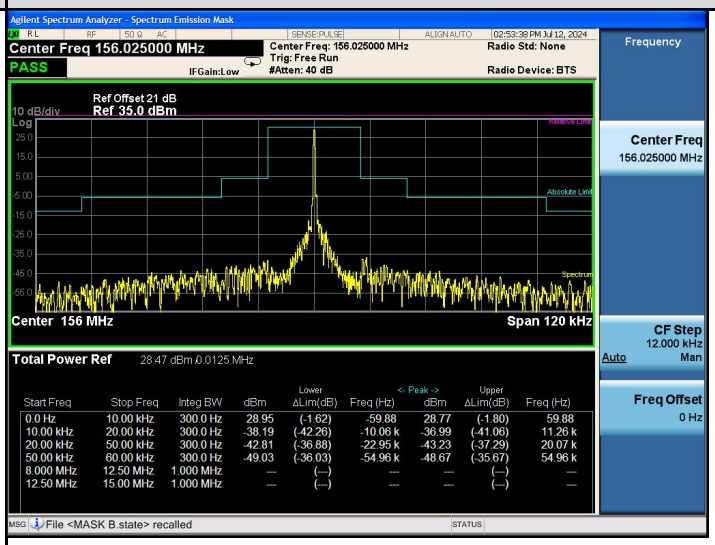
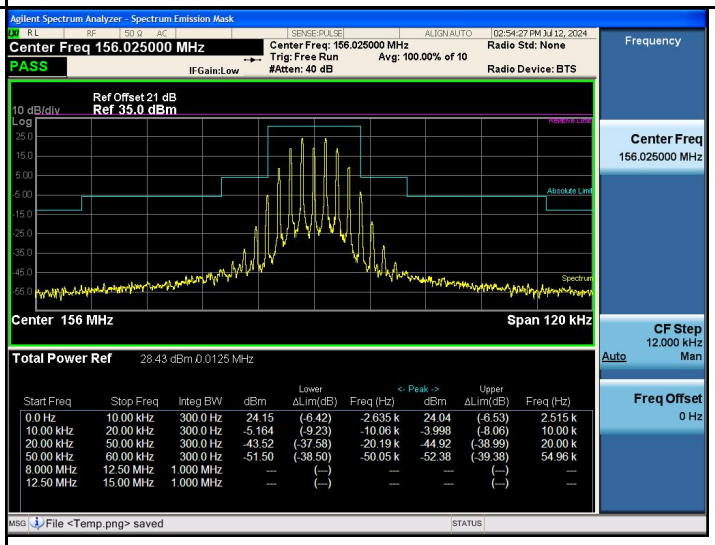
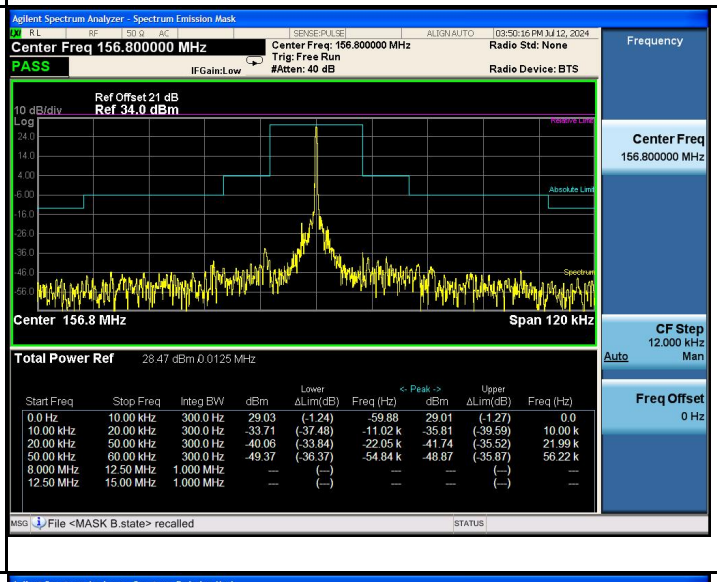
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	300.0 Hz	39.80	(-5.87)	-2.635 k	39.72	(-5.95)	2.395 k
10.00 kHz	20.00 kHz	300.0 Hz	10.18	(-8.99)	-10.06 k	11.08	(-8.09)	10.00 k
20.00 kHz	50.00 kHz	300.0 Hz	-29.84	(-39.01)	-20.13 k	-29.21	(-38.38)	20.00 k
50.00 kHz	60.00 kHz	300.0 Hz	-38.01	(-25.01)	-57.12 k	-39.06	(-26.06)	55.14 k
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)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	300.0 Hz	44.64	(-0.90)	-59.88	44.43	(-1.11)	59.88
10.00 kHz	20.00 kHz	300.0 Hz	-21.98	(-41.02)	-11.20 k	-20.60	(-39.64)	11.20 k
20.00 kHz	50.00 kHz	300.0 Hz	-27.03	(-36.07)	-21.81 k	-27.84	(-36.88)	24.45 k
50.00 kHz	60.00 kHz	300.0 Hz	-34.36	(-21.36)	-52.03 k	-35.60	(-22.60)	54.78 k
8.000 MHz	12.50 MHz	1.000 MHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

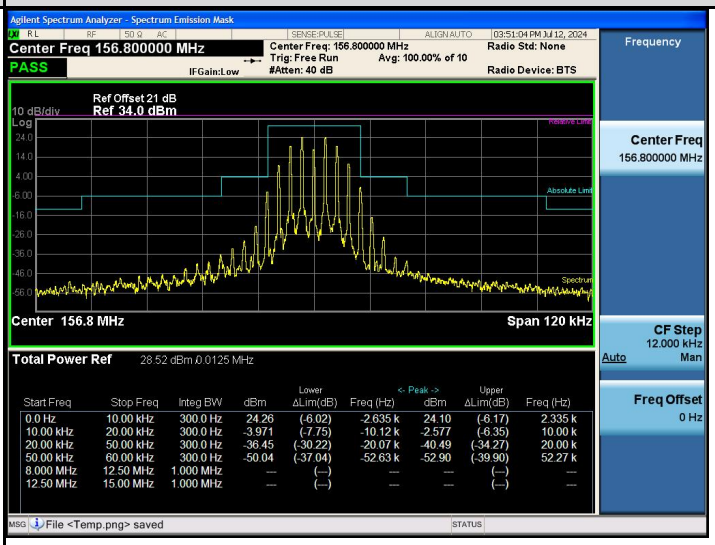
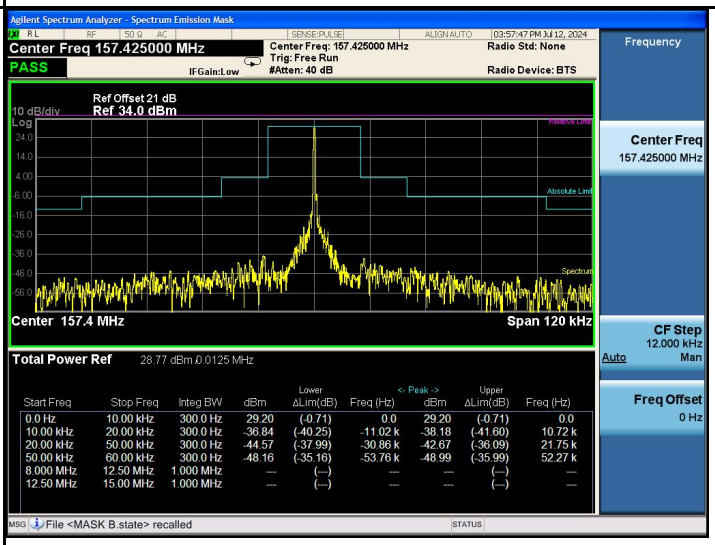
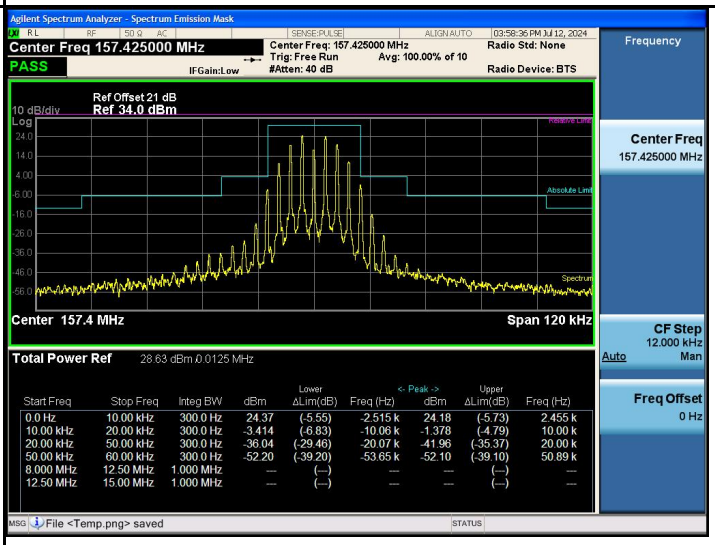
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH_M	
TX-AWH	FM	CH_H	
TX-AWH	FM	CH_H	

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH_L	
TX-AWL	FM	CH_L	
TX-AWL	FM	CH_M	

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH_M	
TX-AWL	FM	CH_H	
TX-AWL	FM	CH_H	

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-AWH	FM	CH_M	-20	0.126	0.353	0.503	0.818	5	PASS
TX-AWH	FM	CH_M	-15	0.213	0.586	0.867	1.459	5	PASS
TX-AWH	FM	CH_M	-10	0.277	0.986	1.486	2.505	5	PASS
TX-AWH	FM	CH_M	-5	0.496	1.739	2.662	4.002	5	PASS
TX-AWH	FM	CH_M	0	0.782	3.030	3.830	4.466	5	PASS
TX-AWH	FM	CH_M	5	1.433	4.019	4.340	4.668	5	PASS
TX-AWH	FM	CH_M	10	2.603	4.599	4.457	4.727	5	PASS
TX-AWH	FM	CH_M	15	3.960	4.806	4.489	4.771	5	PASS
TX-AWH	FM	CH_M	20	4.713	4.867	4.526	4.704	5	PASS

Appendix D:Modulation Limit

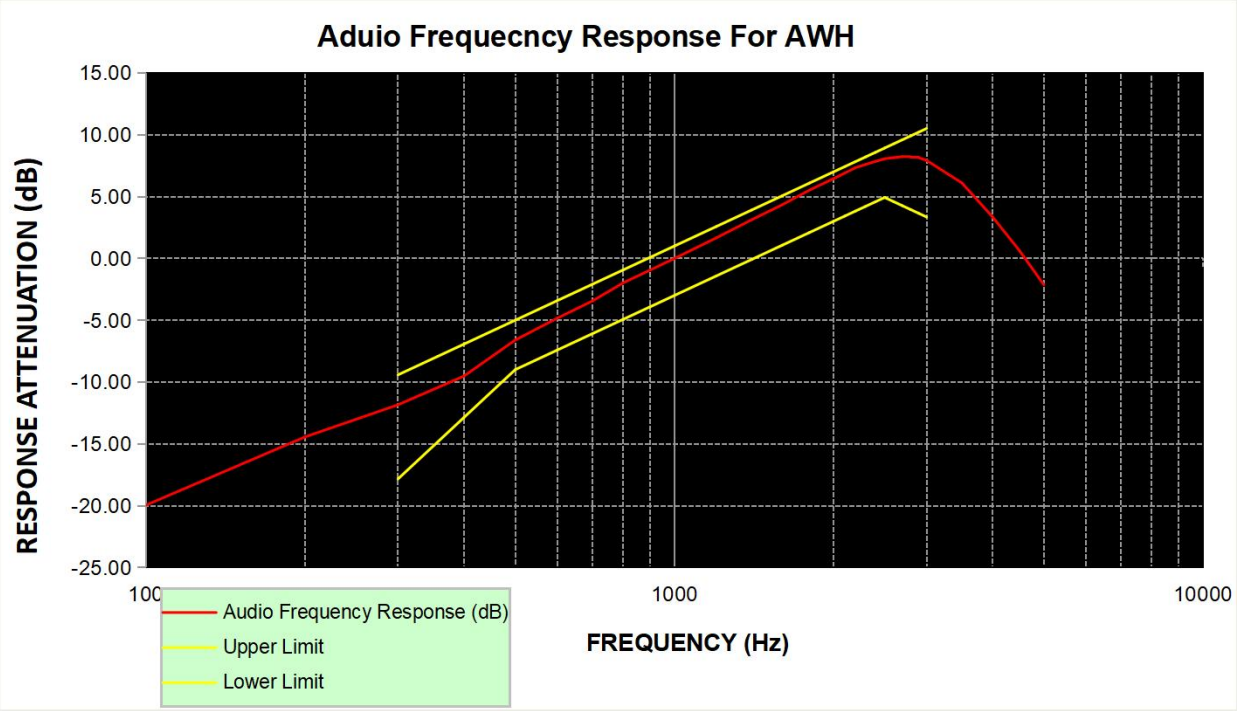
TEST PLOT RESULT

Appendix E:Aduio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH_M	100	-19.97			PASS
TX-AWH	FM	CH_M	200	-14.45			PASS
TX-AWH	FM	CH_M	300	-11.84	-17.84	-9.42	PASS
TX-AWH	FM	CH_M	400	-9.52	-12.86	-6.93	PASS
TX-AWH	FM	CH_M	500	-6.61	-9.00	-5.00	PASS
TX-AWH	FM	CH_M	600	-4.84	-7.42	-3.42	PASS
TX-AWH	FM	CH_M	700	-3.44	-6.09	-2.09	PASS
TX-AWH	FM	CH_M	800	-1.98	-4.93	-0.93	PASS
TX-AWH	FM	CH_M	900	-0.94	-3.91	0.09	PASS
TX-AWH	FM	CH_M	1000	-0.01	-3.00	1.00	PASS
TX-AWH	FM	CH_M	1200	1.66	-1.42	2.58	PASS
TX-AWH	FM	CH_M	1400	3.13	-0.09	3.91	PASS
TX-AWH	FM	CH_M	1600	4.34	1.07	5.07	PASS
TX-AWH	FM	CH_M	1800	5.52	2.09	6.09	PASS
TX-AWH	FM	CH_M	2000	6.45	3.00	7.00	PASS
TX-AWH	FM	CH_M	2100	6.90	3.42	7.42	PASS
TX-AWH	FM	CH_M	2200	7.34	3.83	7.83	PASS
TX-AWH	FM	CH_M	2300	7.60	4.21	8.21	PASS
TX-AWH	FM	CH_M	2400	7.85	4.58	8.58	PASS
TX-AWH	FM	CH_M	2500	8.07	4.93	8.93	PASS
TX-AWH	FM	CH_M	2600	8.15	4.59	9.27	PASS
TX-AWH	FM	CH_M	2700	8.23	4.27	9.60	PASS
TX-AWH	FM	CH_M	2800	8.19	3.95	9.91	PASS
TX-AWH	FM	CH_M	2900	8.15	3.65	10.22	PASS
TX-AWH	FM	CH_M	3000	7.93	3.35	10.51	PASS
TX-AWH	FM	CH_M	3500	6.11			PASS
TX-AWH	FM	CH_M	4000	3.36			PASS
TX-AWH	FM	CH_M	4500	0.62			PASS
TX-AWH	FM	CH_M	5000	-2.13			PASS

Appendix E:Aduio Frequency Response

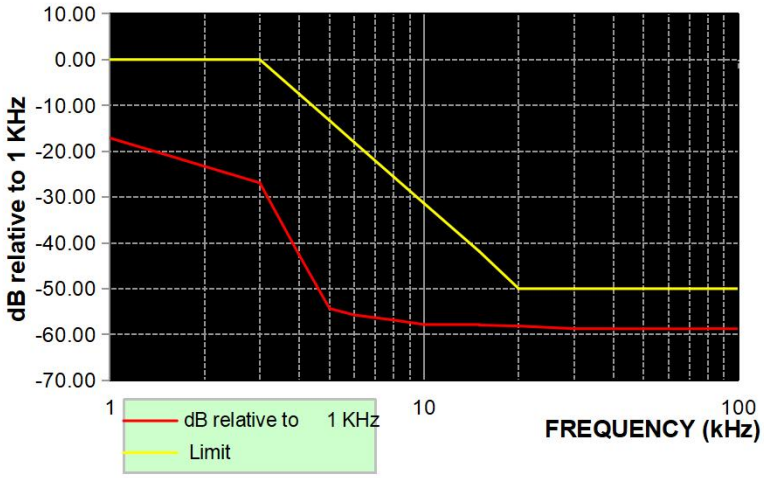
TEST PLOT RESULT



Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	Frequency (KHz)	dB relative to 1 KHz	Limit	Result
TX-AWH	FM	CH_M	1	-17.12	0.00	PASS
TX-AWH	FM	CH_M	3	-26.91	0.00	PASS
TX-AWH	FM	CH_M	4	-42.62	-7.50	PASS
TX-AWH	FM	CH_M	5	-54.33	-13.30	PASS
TX-AWH	FM	CH_M	6	-55.75	-18.10	PASS
TX-AWH	FM	CH_M	8	-56.85	-25.60	PASS
TX-AWH	FM	CH_M	10	-57.83	-31.40	PASS
TX-AWH	FM	CH_M	15	-57.95	-41.90	PASS
TX-AWH	FM	CH_M	20	-58.15	-50.00	PASS
TX-AWH	FM	CH_M	30	-58.73	-50.00	PASS
TX-AWH	FM	CH_M	40	-58.75	-50.00	PASS
TX-AWH	FM	CH_M	50	-58.74	-50.00	PASS
TX-AWH	FM	CH_M	60	-58.76	-50.00	PASS
TX-AWH	FM	CH_M	70	-58.75	-50.00	PASS
TX-AWH	FM	CH_M	80	-58.72	-50.00	PASS
TX-AWH	FM	CH_M	90	-58.75	-50.00	PASS
TX-AWH	FM	CH_M	100	-58.73	-50.00	PASS

Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH_M	

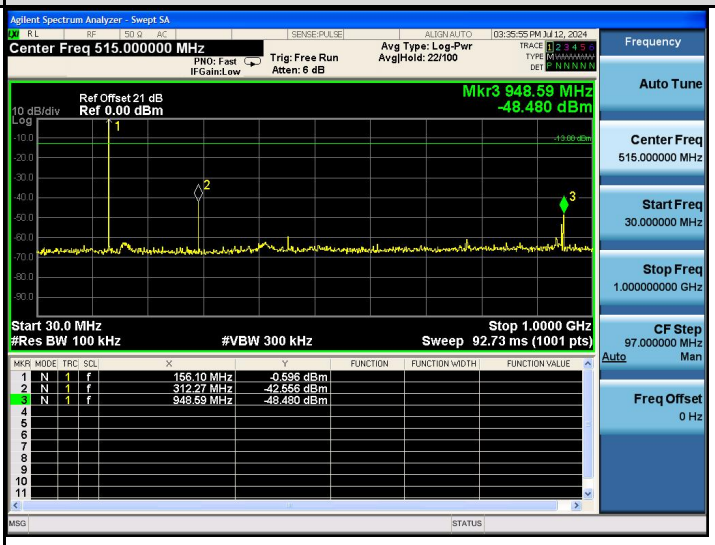
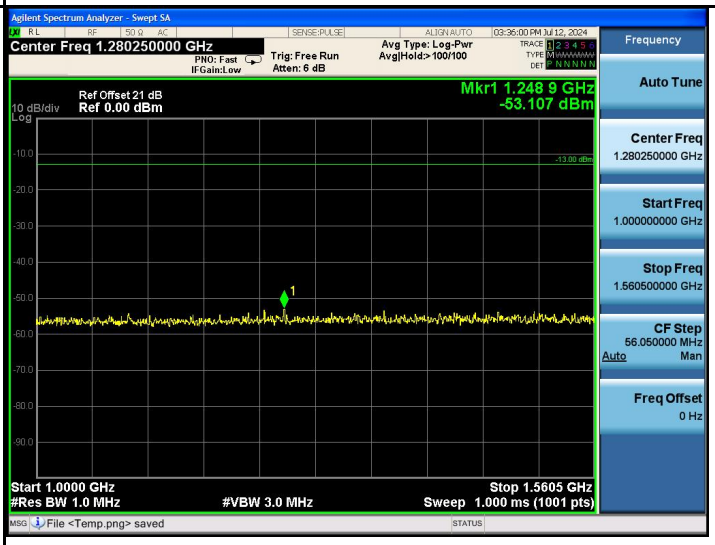
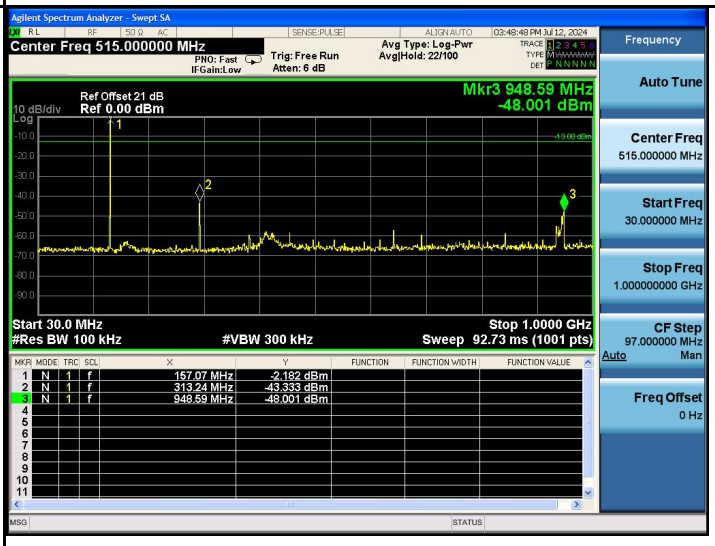
Appendix G:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH_L	CH_M	CH_H		
TX-AWH	FM	V_N	-20	0.024	-0.043	0.356	±10	PASS
TX-AWH	FM	V_N	-10	0.024	-0.042	0.335	±10	PASS
TX-AWH	FM	V_N	0	0.023	-0.043	0.328	±10	PASS
TX-AWH	FM	V_N	10	0.024	-0.042	0.337	±10	PASS
TX-AWH	FM	V_N	20	0.023	-0.041	0.325	±10	PASS
TX-AWH	FM	V_N	30	0.025	-0.043	0.330	±10	PASS
TX-AWH	FM	V_N	40	0.024	-0.045	0.326	±10	PASS
TX-AWH	FM	V_N	50	0.024	-0.043	0.344	±10	PASS
TX-AWL	FM	V_N	-20	0.079	-0.024	0.306	±10	PASS
TX-AWL	FM	V_N	-10	0.084	-0.024	0.311	±10	PASS
TX-AWL	FM	V_N	0	0.082	-0.023	0.316	±10	PASS
TX-AWL	FM	V_N	10	0.081	-0.024	0.297	±10	PASS
TX-AWL	FM	V_N	20	0.077	-0.022	0.294	±10	PASS
TX-AWL	FM	V_N	30	0.084	-0.023	0.316	±10	PASS
TX-AWL	FM	V_N	40	0.082	-0.024	0.323	±10	PASS
TX-AWL	FM	V_N	50	0.081	-0.023	0.322	±10	PASS

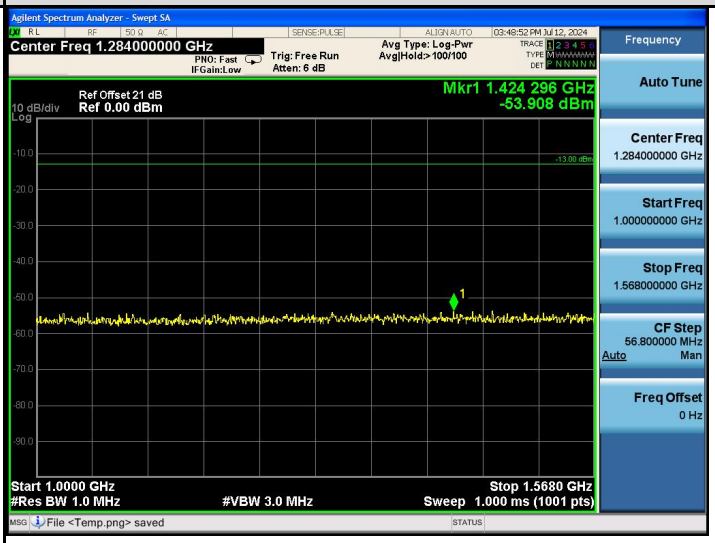
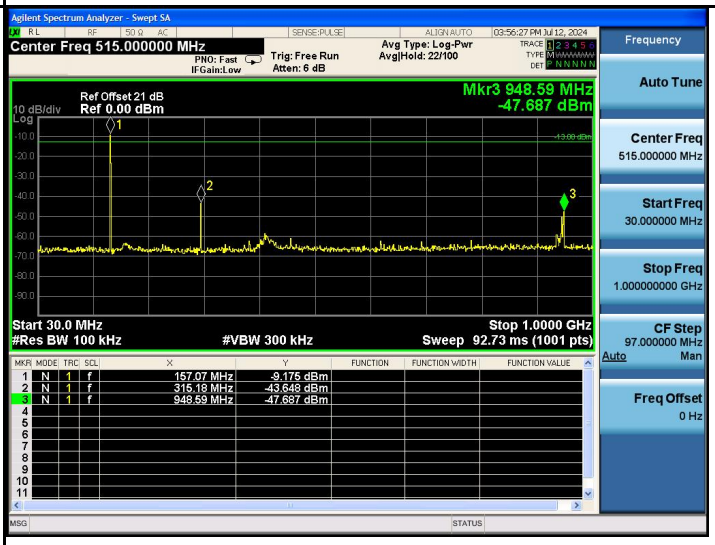
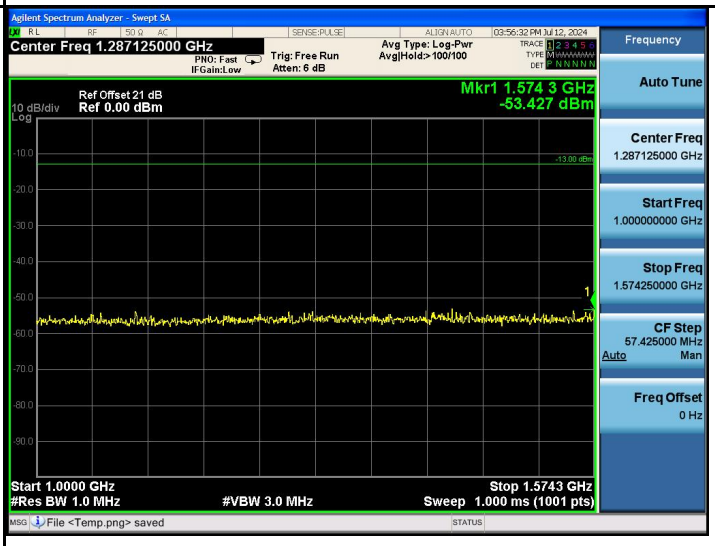
Appendix H:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH_L	CH_M	CH_H		
TX-AWH	FM	V_N	T_N	0.023	-0.041	0.325	±10	PASS
TX-AWH	FM	V_L	T_N	0.023	-0.041	0.328	±10	PASS
TX-AWH	FM	V_H	T_N	0.024	-0.042	0.328	±10	PASS
TX-AWL	FM	V_N	T_N	0.077	-0.022	0.294	±10	PASS
TX-AWL	FM	V_L	T_N	0.078	-0.022	0.295	±10	PASS
TX-AWL	FM	V_H	T_N	0.082	-0.023	0.297	±10	PASS

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH_L	
TX-AWH	FM	CH_L	
TX-AWH	FM	CH_M	

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CHM	
TX-AWH	FM	CHH	
TX-AWH	FM	CHH	

----End of Report----