Project No.	SHT2205110601EW		
Test sample No.	YPHT22051106003	Model No.	RM01
Start test date	2022/6/1	Finish date	2022/6/6
Temperature	24.1℃	Humidity	54%
Test Engineer	Caspar Chen	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	Audio 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

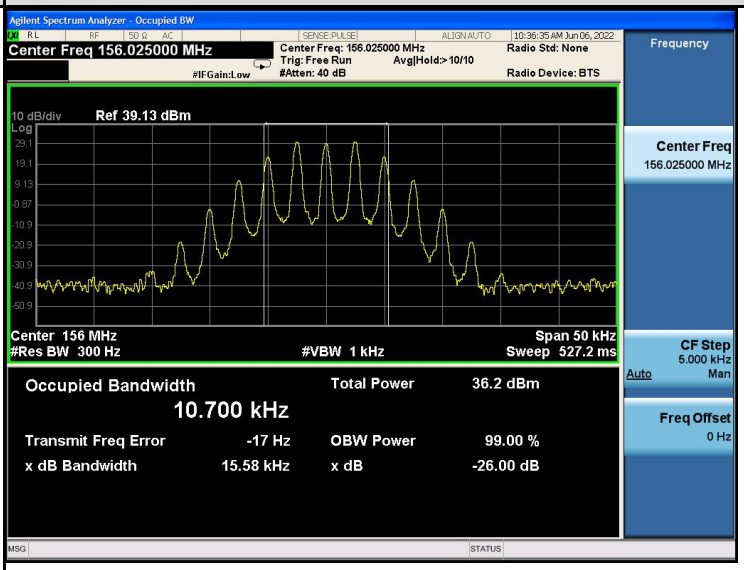
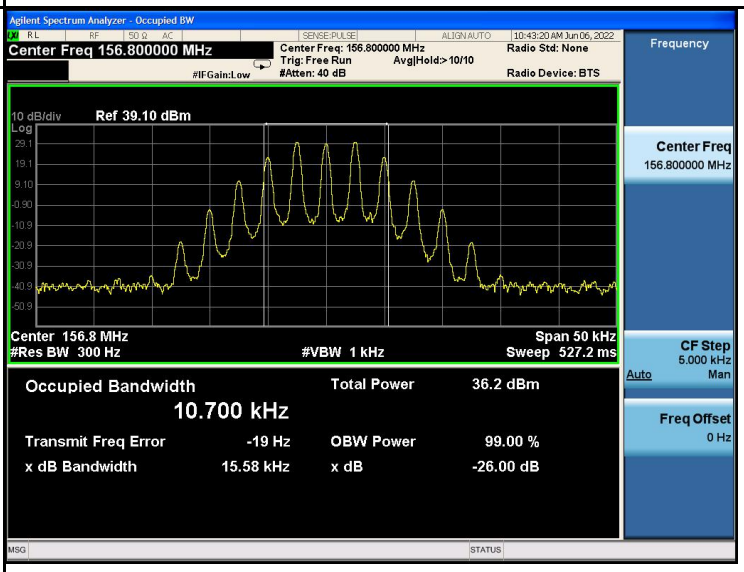
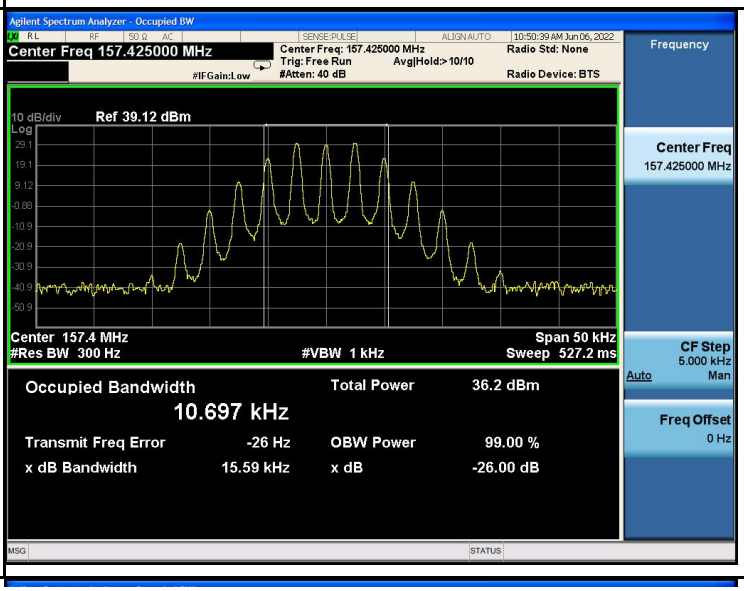
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Limit	Result
TX-AWH	FM	CH_L	34.85	3.05	5	PASS
TX-AWH	FM	CH_M	34.82	3.03	5	PASS
TX-AWH	FM	CH_H	34.90	3.09	5	PASS
TX-AWL	FM	CH_L	29.92	0.98	1	PASS
TX-AWL	FM	CH_M	29.78	0.95	1	PASS
TX-AWL	FM	CH_H	29.70	0.93	1	PASS

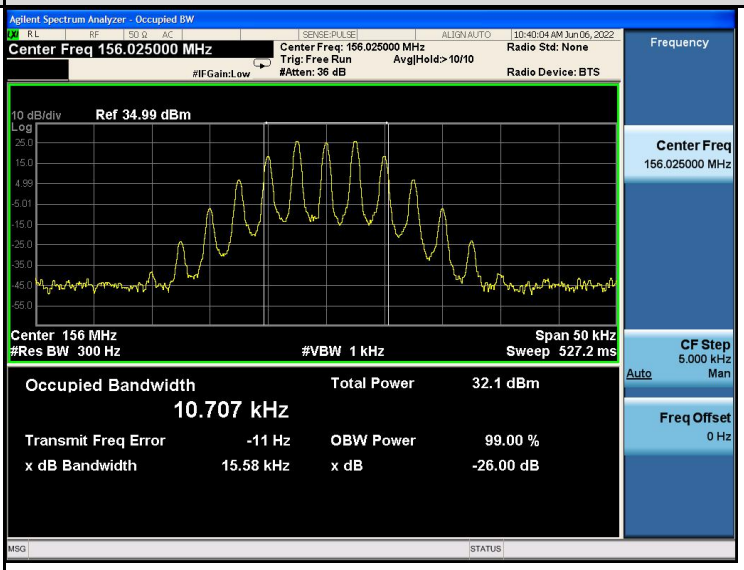
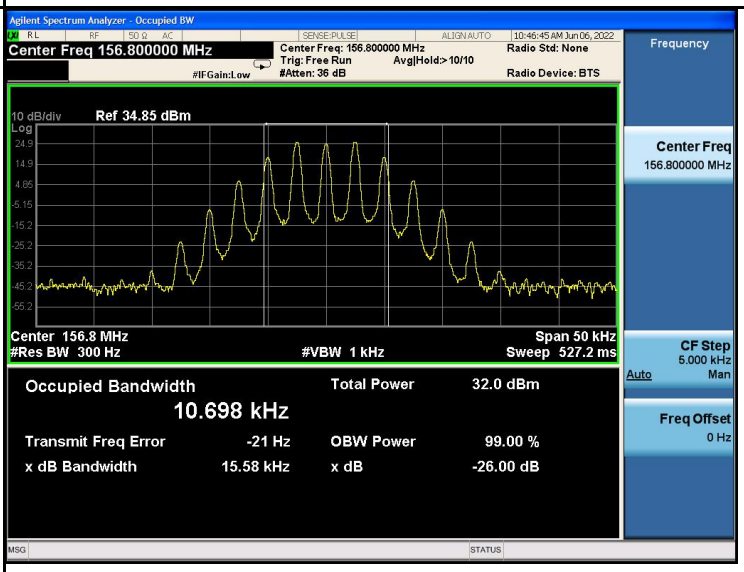
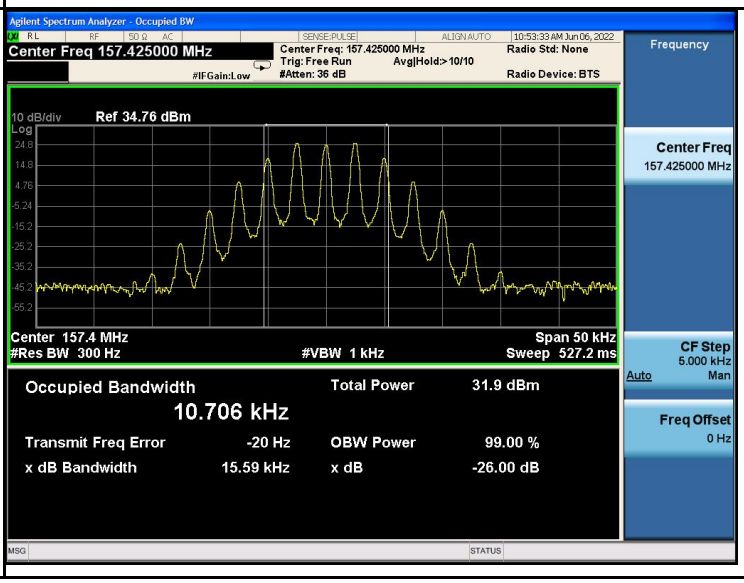
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-AWH	FM	CH_L	10.700	15.58	⩽20	PASS
TX-AWH	FM	CH_M	10.700	15.58	⩽20	PASS
TX-AWH	FM	CH_H	10.698	15.58	⩽20	PASS
TX-AWL	FM	CH_L	10.707	15.58	⩽20	PASS
TX-AWL	FM	CH_M	10.698	15.58	⩽20	PASS
TX-AWL	FM	CH_H	10.706	15.59	⩽20	PASS

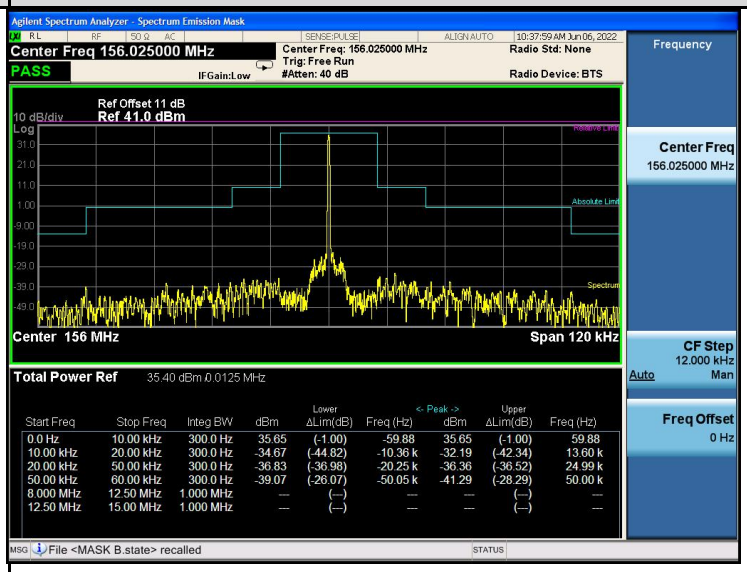
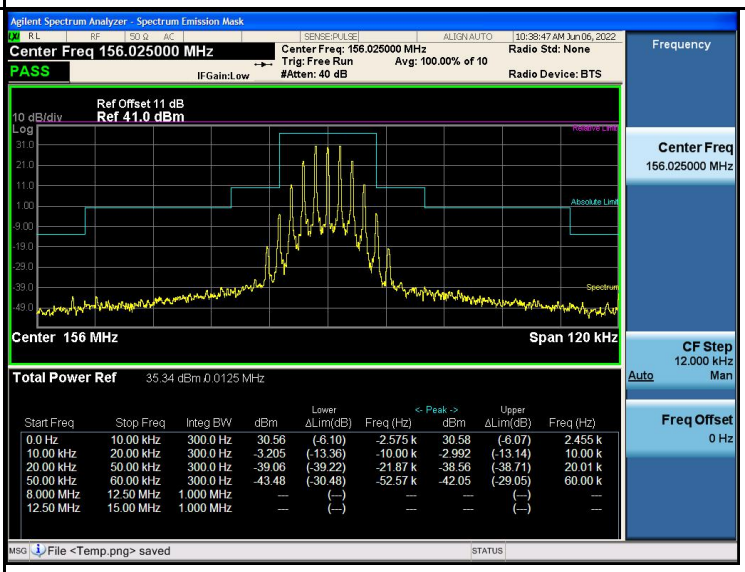
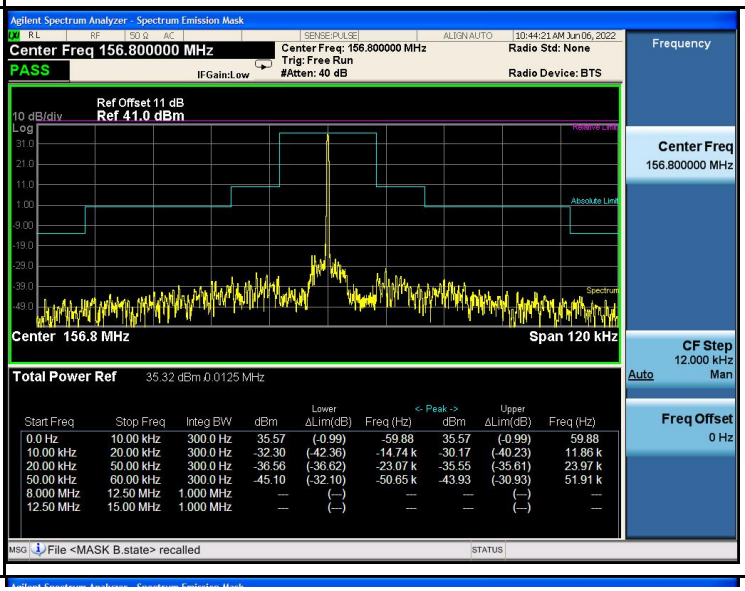
Appendix B:Occupied Bandwidth

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

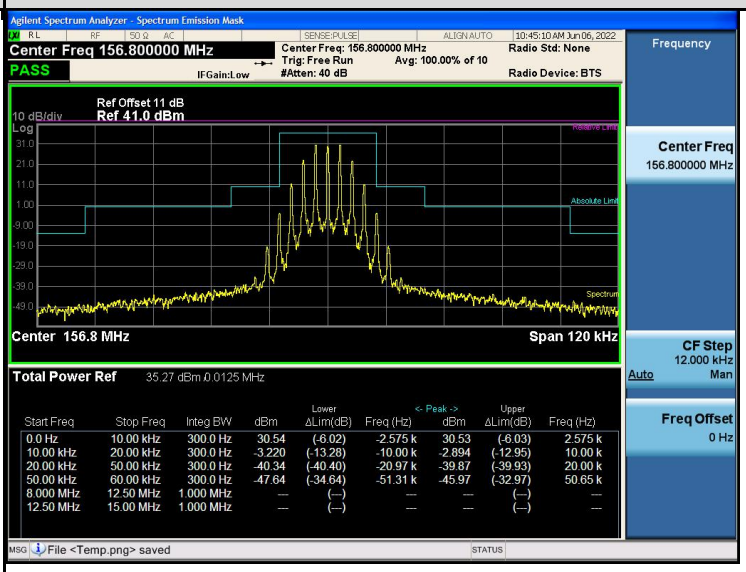
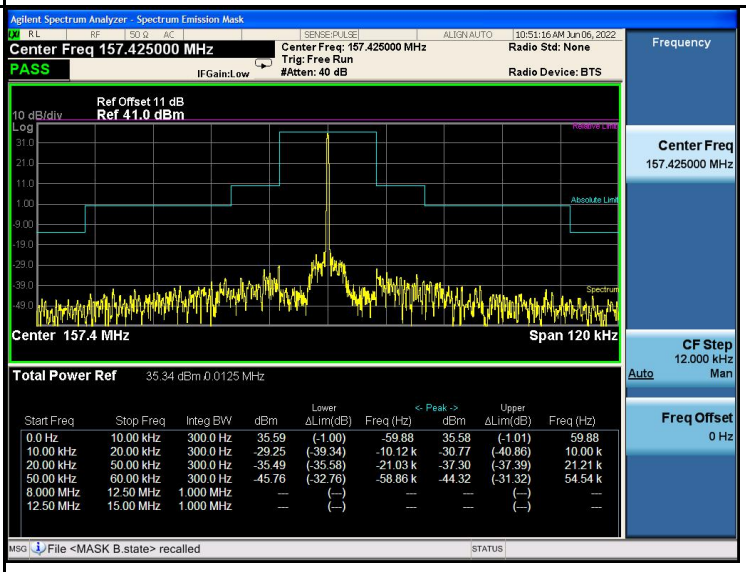
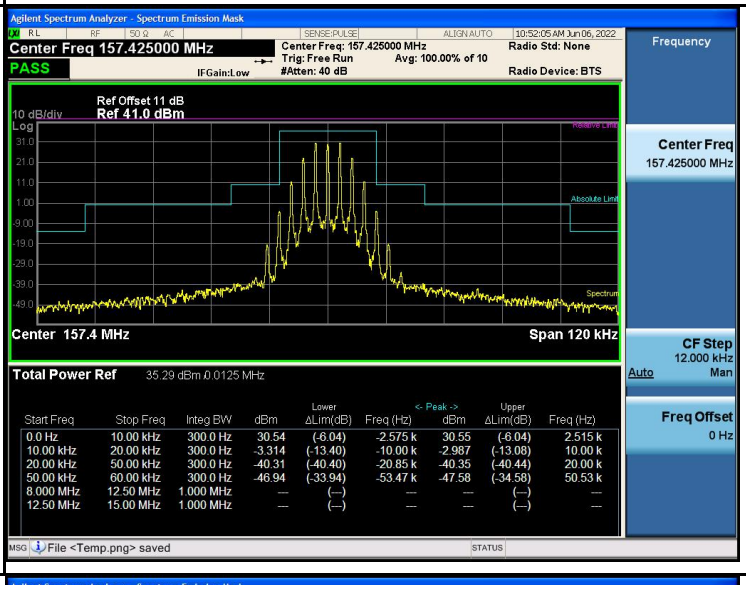
Appendix B:Occupied Bandwidth

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

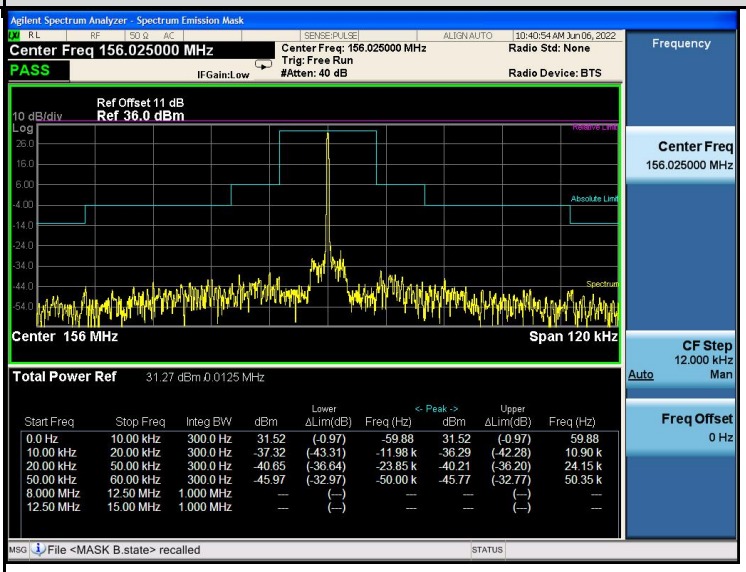
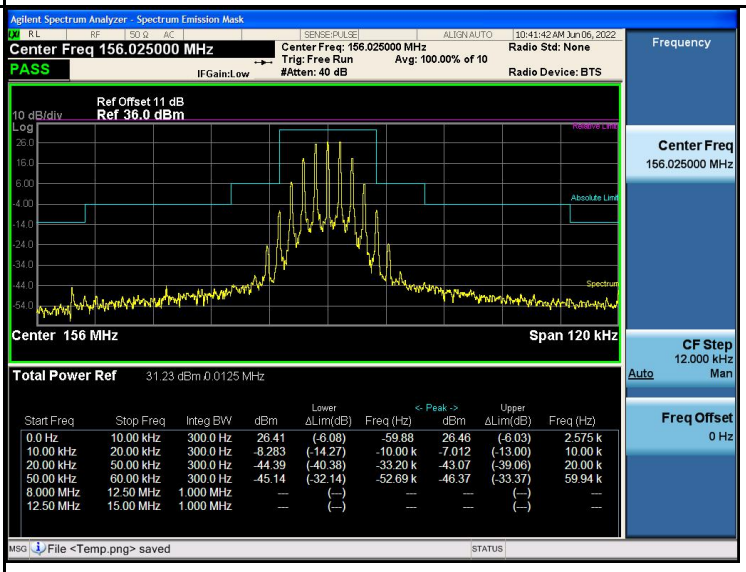
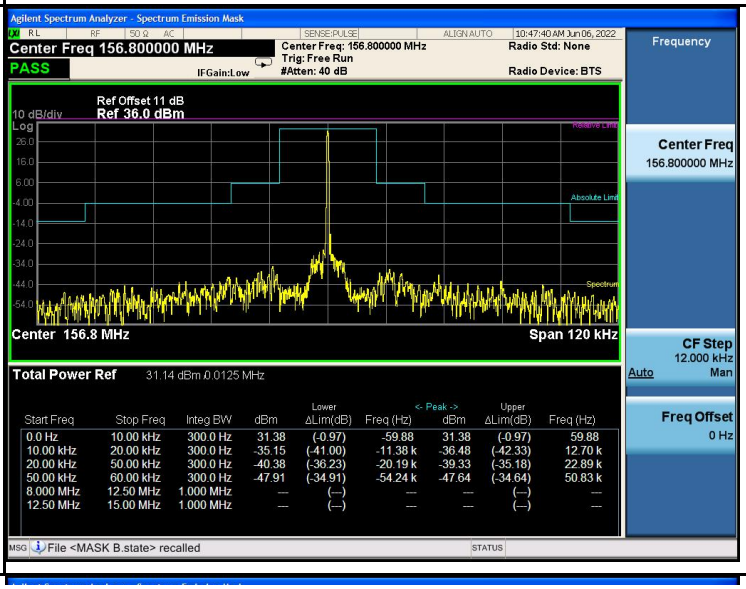
Appendix C:Emission Mask

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

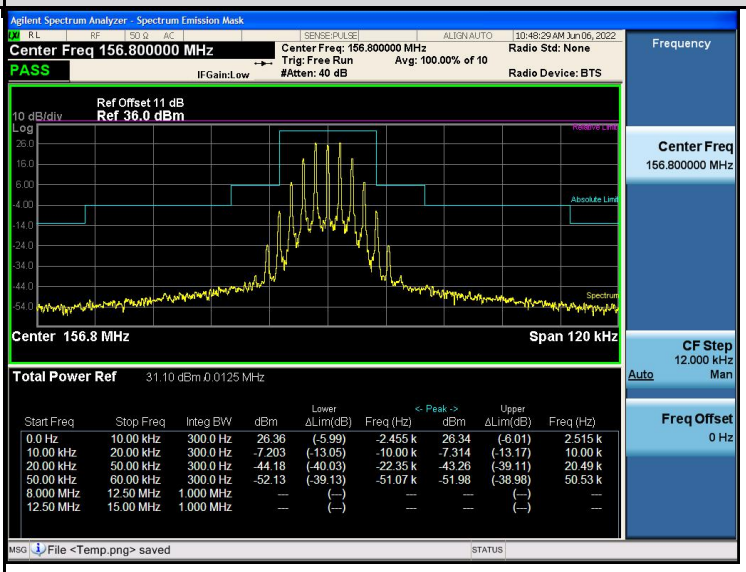
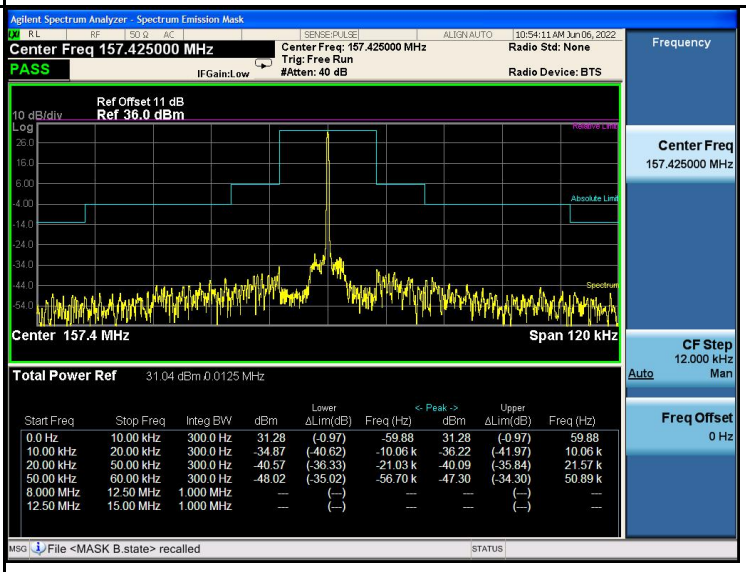
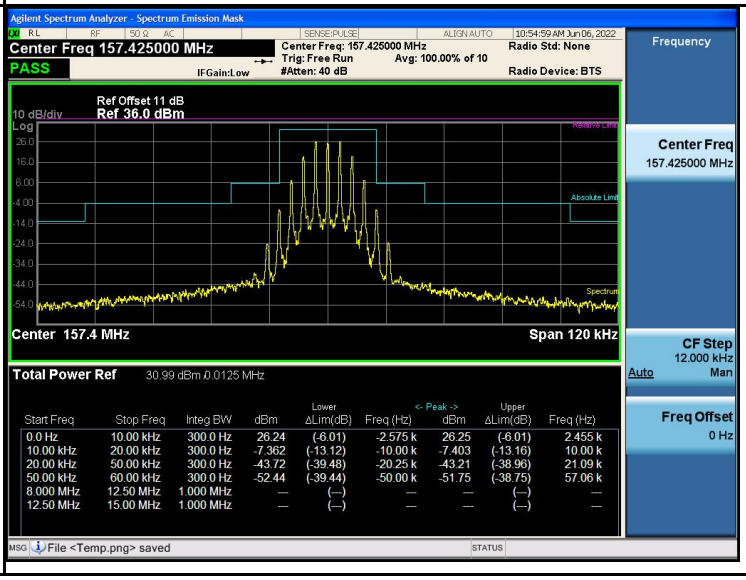
Appendix C:Emission Mask

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	0.057	0.070	0.088	0.118	5	PASS
TX-AWH	FM	CH_M	-15	0.083	0.631	0.975	2.073	5	PASS
TX-AWH	FM	CH_M	-10	0.373	1.027	1.673	3.470	5	PASS
TX-AWH	FM	CH_M	-5	0.561	1.758	2.880	3.791	5	PASS
TX-AWH	FM	CH_M	0	0.895	3.099	4.098	3.862	5	PASS
TX-AWH	FM	CH_M	5	1.509	4.011	4.171	3.870	5	PASS
TX-AWH	FM	CH_M	10	2.549	4.304	4.195	3.868	5	PASS
TX-AWH	FM	CH_M	15	4.030	4.343	4.179	3.917	5	PASS
TX-AWH	FM	CH_M	20	4.519	4.345	4.201	3.974	5	PASS

Appendix D:Modulation Limit

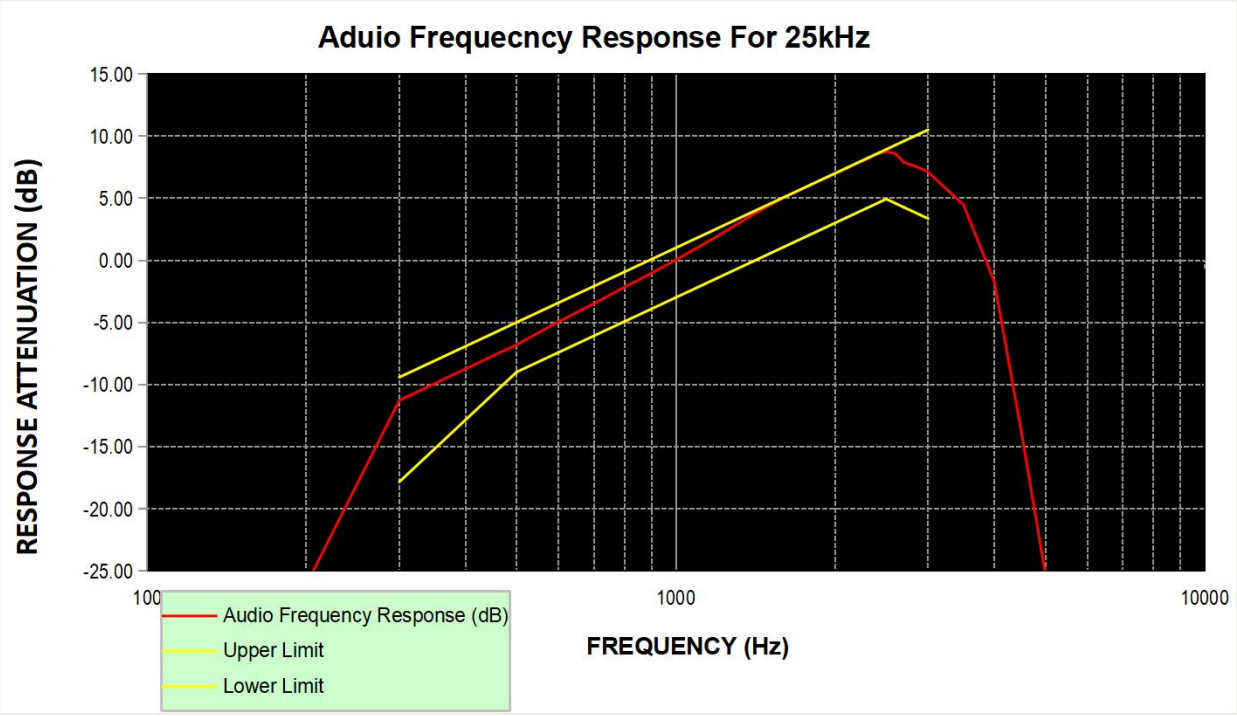
TEST PLOT RESULT

Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH_M	100	-37.40			PASS
TX-AWH	FM	CH_M	200	-26.13			PASS
TX-AWH	FM	CH_M	300	-11.29	-17.84	-9.42	PASS
TX-AWH	FM	CH_M	400	-8.75	-12.86	-6.93	PASS
TX-AWH	FM	CH_M	500	-6.80	-9.00	-5.00	PASS
TX-AWH	FM	CH_M	600	-4.95	-7.42	-3.42	PASS
TX-AWH	FM	CH_M	700	-3.50	-6.09	-2.09	PASS
TX-AWH	FM	CH_M	800	-2.17	-4.93	-0.93	PASS
TX-AWH	FM	CH_M	900	-1.04	-3.91	0.09	PASS
TX-AWH	FM	CH_M	1000	0.02	-3.00	1.00	PASS
TX-AWH	FM	CH_M	1200	1.95	-1.42	2.58	PASS
TX-AWH	FM	CH_M	1400	3.69	-0.09	3.91	PASS
TX-AWH	FM	CH_M	1600	5.05	1.07	5.07	PASS
TX-AWH	FM	CH_M	1800	6.07	2.09	6.09	PASS
TX-AWH	FM	CH_M	2000	6.97	3.00	7.00	PASS
TX-AWH	FM	CH_M	2100	7.39	3.42	7.42	PASS
TX-AWH	FM	CH_M	2200	7.82	3.83	7.83	PASS
TX-AWH	FM	CH_M	2300	8.17	4.21	8.21	PASS
TX-AWH	FM	CH_M	2400	8.55	4.58	8.58	PASS
TX-AWH	FM	CH_M	2500	8.77	4.93	8.93	PASS
TX-AWH	FM	CH_M	2600	8.59	4.59	9.27	PASS
TX-AWH	FM	CH_M	2700	7.88	4.27	9.60	PASS
TX-AWH	FM	CH_M	2800	7.66	3.95	9.91	PASS
TX-AWH	FM	CH_M	2900	7.40	3.65	10.22	PASS
TX-AWH	FM	CH_M	3000	7.10	3.35	10.51	PASS
TX-AWH	FM	CH_M	3500	4.47			PASS
TX-AWH	FM	CH_M	4000	-1.69			PASS
TX-AWH	FM	CH_M	4500	-13.76			PASS
TX-AWH	FM	CH_M	5000	-25.30			PASS

Appendix E:Audio Frequency Response

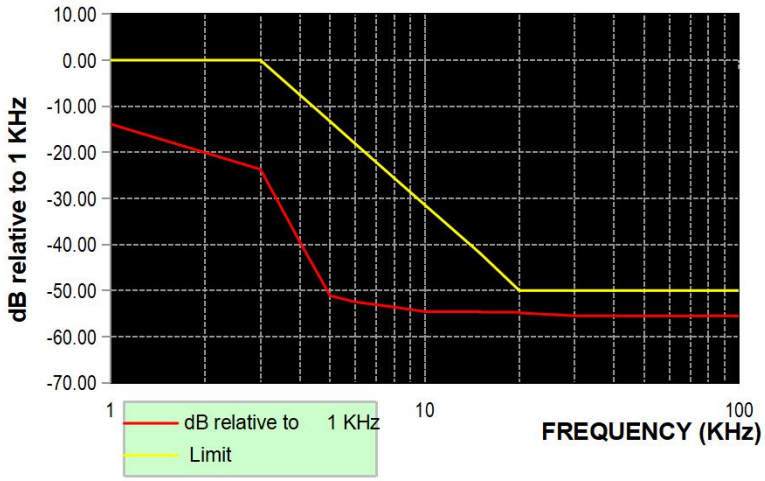
TEST PLOT RESULT



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	-13.87	0.00	PASS
TX-AWH	FM	CH_M	3	-23.69	0.00	PASS
TX-AWH	FM	CH_M	4	-39.37	-7.50	PASS
TX-AWH	FM	CH_M	5	-51.13	-13.30	PASS
TX-AWH	FM	CH_M	6	-52.47	-18.10	PASS
TX-AWH	FM	CH_M	8	-53.60	-25.60	PASS
TX-AWH	FM	CH_M	10	-54.58	-31.40	PASS
TX-AWH	FM	CH_M	15	-54.70	-41.90	PASS
TX-AWH	FM	CH_M	20	-54.86	-50.00	PASS
TX-AWH	FM	CH_M	30	-55.48	-50.00	PASS
TX-AWH	FM	CH_M	40	-55.50	-50.00	PASS
TX-AWH	FM	CH_M	50	-55.50	-50.00	PASS
TX-AWH	FM	CH_M	60	-55.51	-50.00	PASS
TX-AWH	FM	CH_M	70	-55.50	-50.00	PASS
TX-AWH	FM	CH_M	80	-55.49	-50.00	PASS
TX-AWH	FM	CH_M	90	-55.50	-50.00	PASS
TX-AWH	FM	CH_M	100	-55.51	-50.00	PASS

Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH_{M2}	

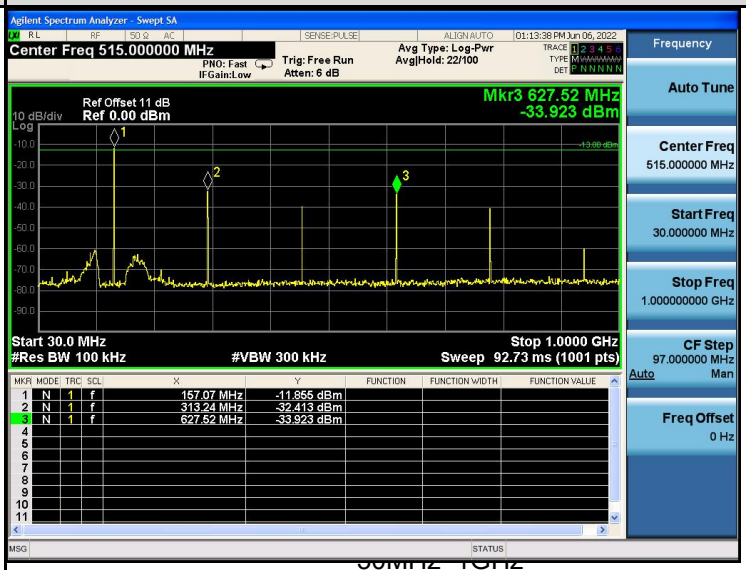
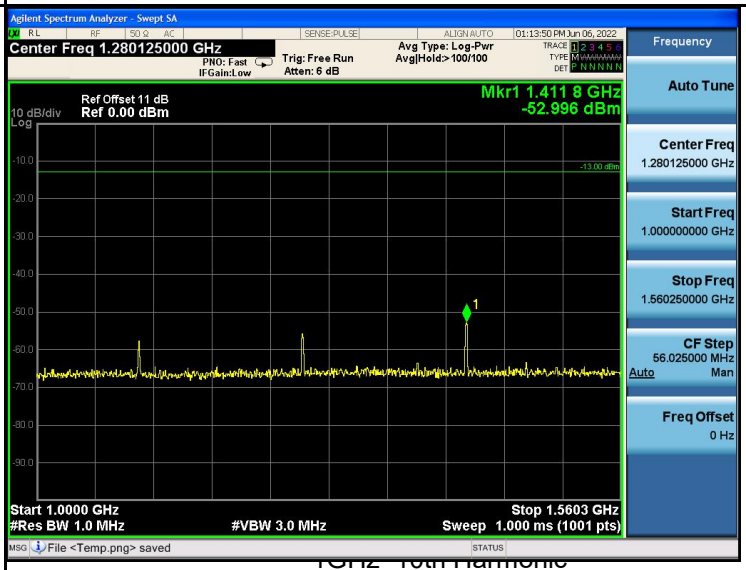
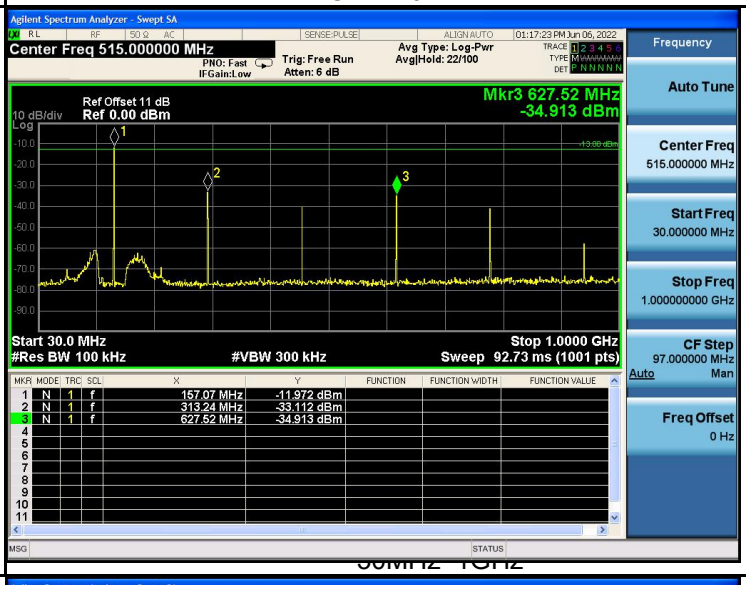
Appendix G:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH_L	CH_{M1}	CH_H		
TX-AWH	FM	V_N	-30	0.065	0.067	-0.021	±5.0	PASS
TX-AWH	FM	V_N	-20	0.062	0.066	-0.021	±5.0	PASS
TX-AWH	FM	V_N	-10	0.065	0.067	-0.021	±5.0	PASS
TX-AWH	FM	V_N	0	0.063	0.071	-0.021	±5.0	PASS
TX-AWH	FM	V_N	10	0.062	0.065	-0.021	±5.0	PASS
TX-AWH	FM	V_N	20	0.060	0.065	-0.020	±5.0	PASS
TX-AWH	FM	V_N	30	0.066	0.069	-0.020	±5.0	PASS
TX-AWH	FM	V_N	40	0.064	0.069	-0.020	±5.0	PASS
TX-AWH	FM	V_N	50	0.062	0.067	-0.020	±5.0	PASS
TX-AWL	FM	V_N	-30	0.056	-0.050	0.049	±5.0	PASS
TX-AWL	FM	V_N	-20	0.053	-0.049	0.050	±5.0	PASS
TX-AWL	FM	V_N	-10	0.053	-0.048	0.051	±5.0	PASS
TX-AWL	FM	V_N	0	0.058	-0.049	0.051	±5.0	PASS
TX-AWL	FM	V_N	10	0.058	-0.048	0.051	±5.0	PASS
TX-AWL	FM	V_N	20	0.053	-0.046	0.048	±5.0	PASS
TX-AWL	FM	V_N	30	0.056	-0.046	0.051	±5.0	PASS
TX-AWL	FM	V_N	40	0.054	-0.049	0.050	±5.0	PASS
TX-AWL	FM	V_N	50	0.054	-0.050	0.052	±5.0	PASS

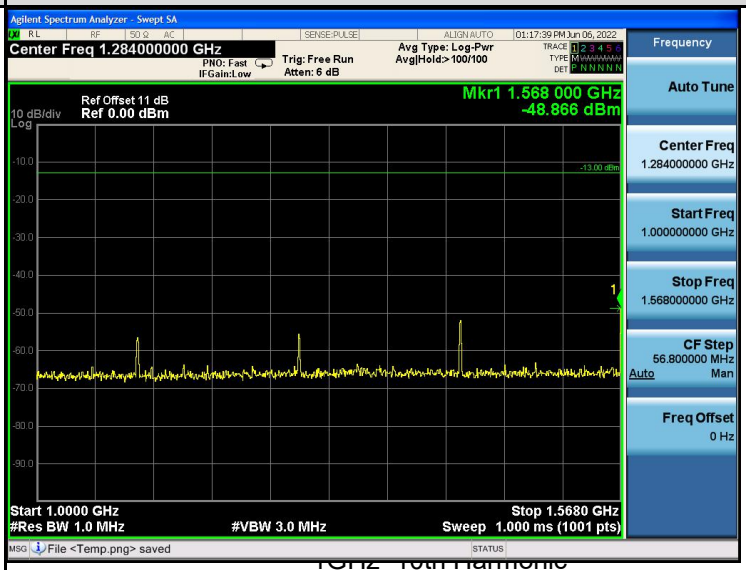
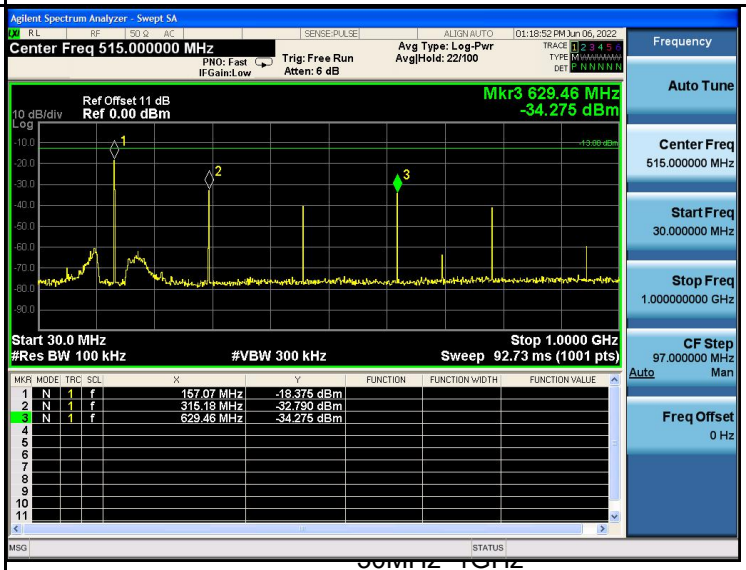
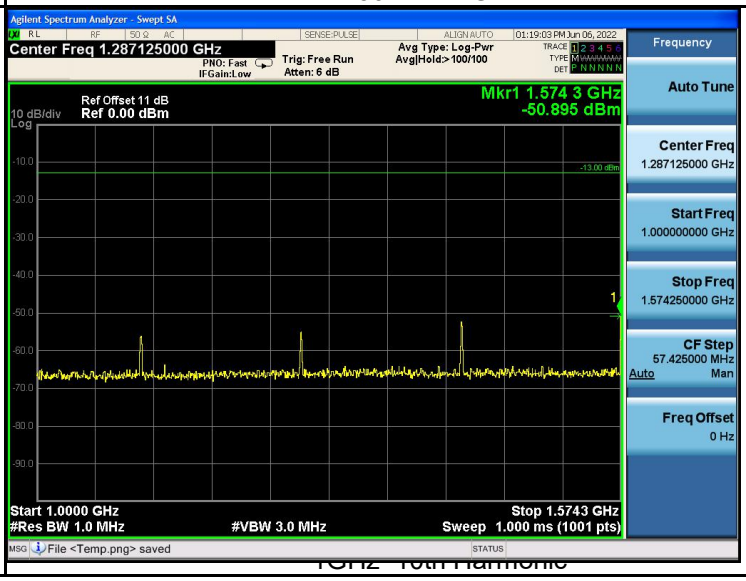
Appendix H:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH_L	CH_{M1}	CH_H		
TX-AWH	FM	V_N	T_N	0.060	0.065	-0.020	±5.0	PASS
TX-AWH	FM	V_L	T_N	0.063	0.071	-0.020	±5.0	PASS
TX-AWH	FM	V_H	T_N	0.065	0.070	-0.020	±5.0	PASS
TX-AWL	FM	V_N	T_N	0.053	-0.046	0.048	±5.0	PASS
TX-AWL	FM	V_L	T_N	0.057	-0.049	0.051	±5.0	PASS
TX-AWL	FM	V_H	T_N	0.056	-0.048	0.053	±5.0	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	CH_M	
TX-AWH	FM	CH_H	
TX-AWH	FM	CH_H	

----End of Report----