Project No.	SHT2305026001EW		
Test sample No.	YPHT23050260001	Model No.	RS-569D
Start test date	2023/5/18	Finish date	2023/5/25
Temperature	24.5℃	Humidity	52%
Test Engineer	ChunshuiGu	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	Frequency Stability Test & Temperature	PASS
E	Frequency Stability Test & Voltage	PASS
F	Transmitter Frequency Behavior	PASS
G	Spurious Emission On Antenna Port	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_{L1}	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNH	4FSK	CH_{M1}	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNH	4FSK	CH_{H1}	36.3	4.27	5.00	-14.6	±20	PASS
TX-DNH	4FSK	CH_{L2}	36.5	4.47	5.00	-10.6	±20	PASS
TX-DNH	4FSK	CH_{M2}	36.3	4.27	5.00	-14.6	±20	PASS
TX-DNH	4FSK	CH_{H2}	36.2	4.17	5.00	-16.6	±20	PASS
TX-DNL	4FSK	CH_{L1}	29.3	0.85	1.00	-15.0	±20	PASS
TX-DNL	4FSK	CH_{M1}	29.2	0.83	1.00	-17.0	±20	PASS
TX-DNL	4FSK	CH_{H1}	29.6	0.91	1.00	-9.0	±20	PASS
TX-DNL	4FSK	CH_{L2}	29.3	0.85	1.00	-15.0	±20	PASS
TX-DNL	4FSK	CH_{M2}	29.5	0.89	1.00	-11.0	±20	PASS
TX-DNL	4FSK	CH_{H2}	29.3	0.85	1.00	-15.0	±20	PASS

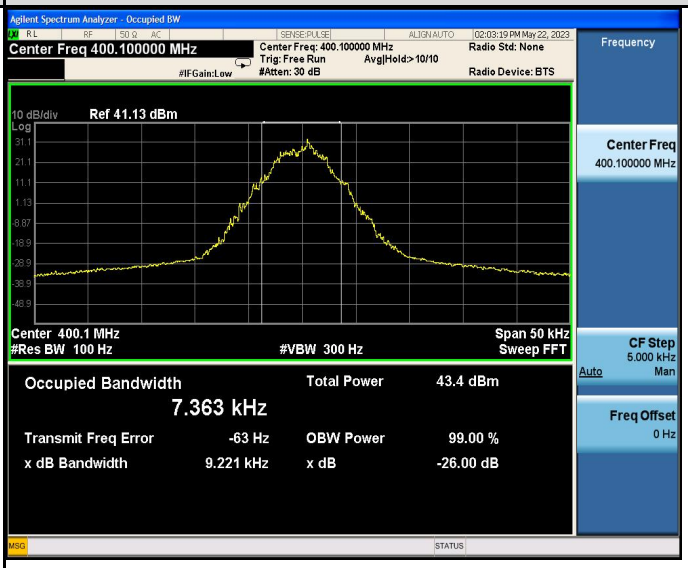
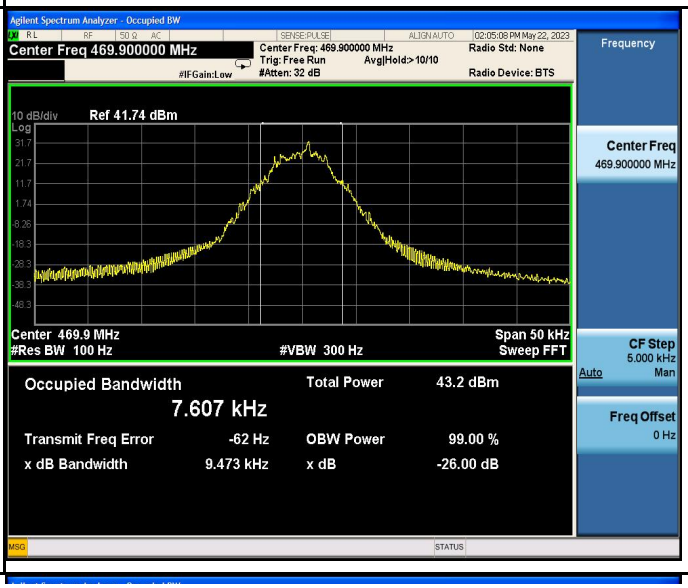
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH_{L1}	7.319	9.258	≤11.25	PASS
TX-DNH	4FSK	CH_{M1}	7.363	9.315	≤11.25	PASS
TX-DNH	4FSK	CH_{H1}	7.495	9.282	≤11.25	PASS
TX-DNH	4FSK	CH_{L2}	7.363	9.221	≤11.25	PASS
TX-DNH	4FSK	CH_{M2}	7.567	9.417	≤11.25	PASS
TX-DNH	4FSK	CH_{H2}	7.607	9.473	≤11.25	PASS
TX-DNL	4FSK	CH_{L1}	7.559	9.313	≤11.25	PASS
TX-DNL	4FSK	CH_{M1}	7.454	9.517	≤11.25	PASS
TX-DNL	4FSK	CH_{H1}	7.550	9.336	≤11.25	PASS
TX-DNL	4FSK	CH_{L2}	7.406	9.218	≤11.25	PASS
TX-DNL	4FSK	CH_{M2}	7.565	9.389	≤11.25	PASS
TX-DNL	4FSK	CH_{H2}	7.715	9.648	≤11.25	PASS

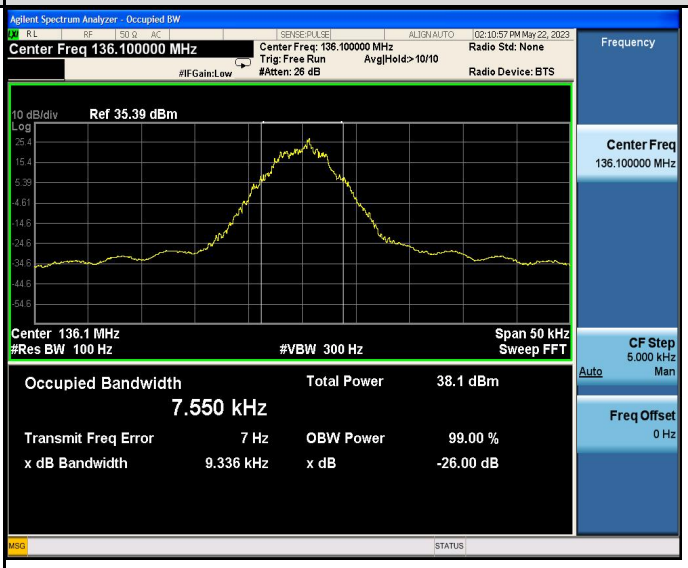
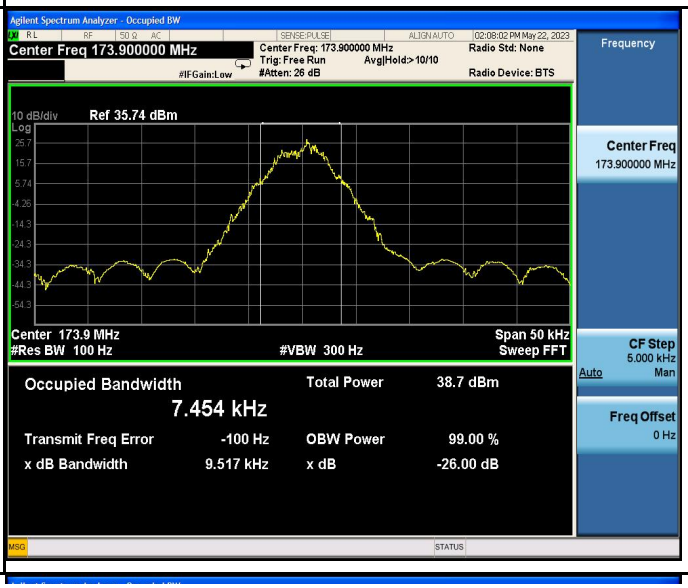
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{L1}	
TX-DNH	4FSK	CH_{M1}	
TX-DNH	4FSK	CH_{H1}	

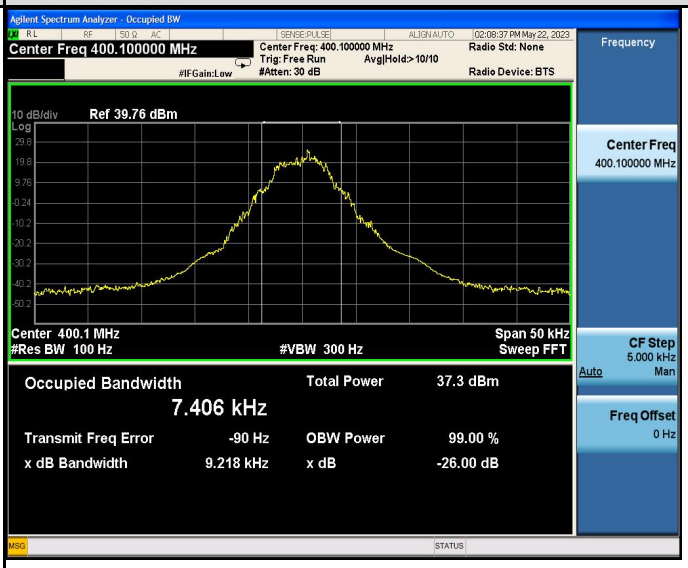
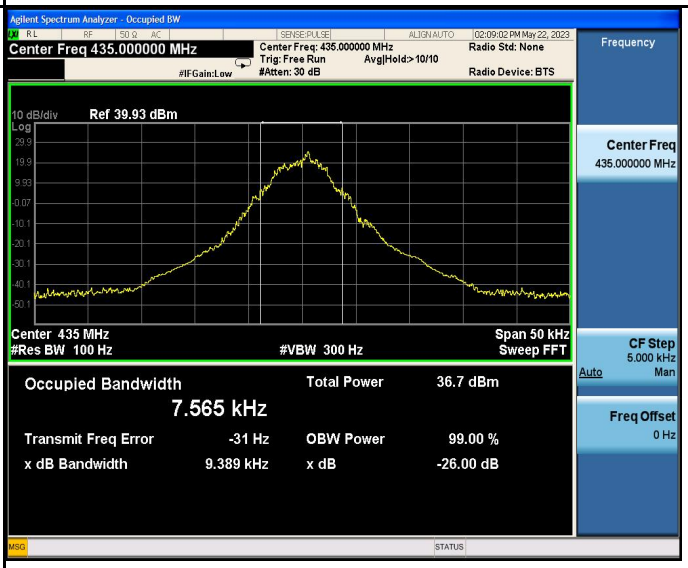
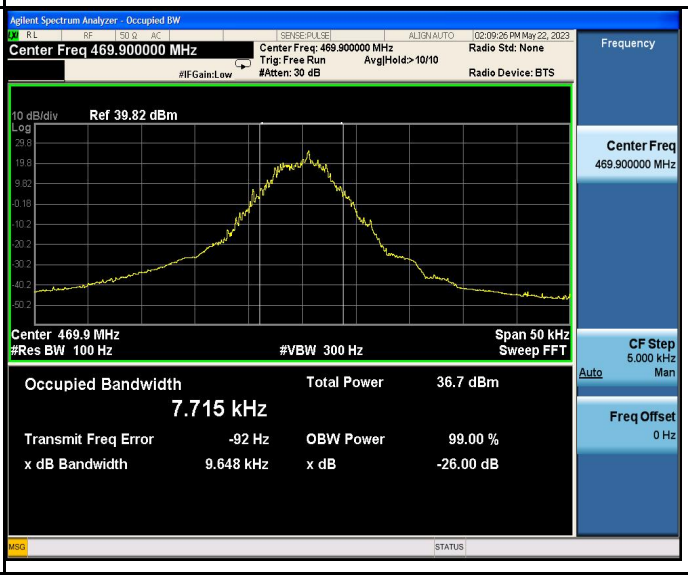
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{L2}	
TX-DNH	4FSK	CH_{M2}	
TX-DNH	4FSK	CH_{H2}	

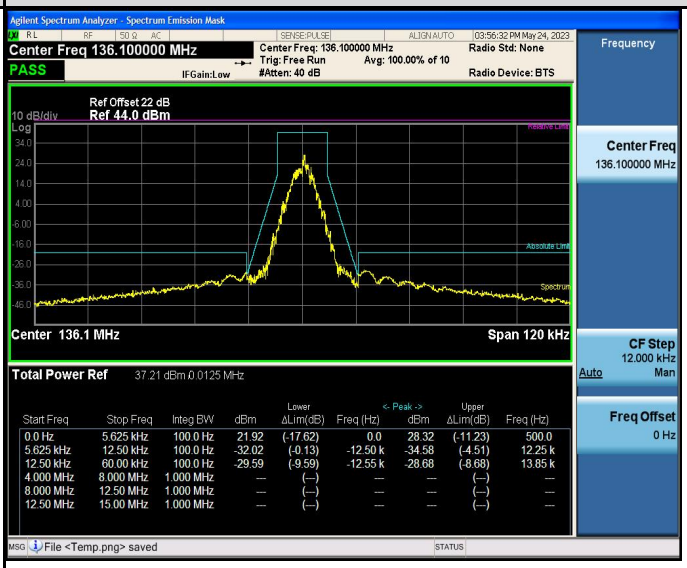
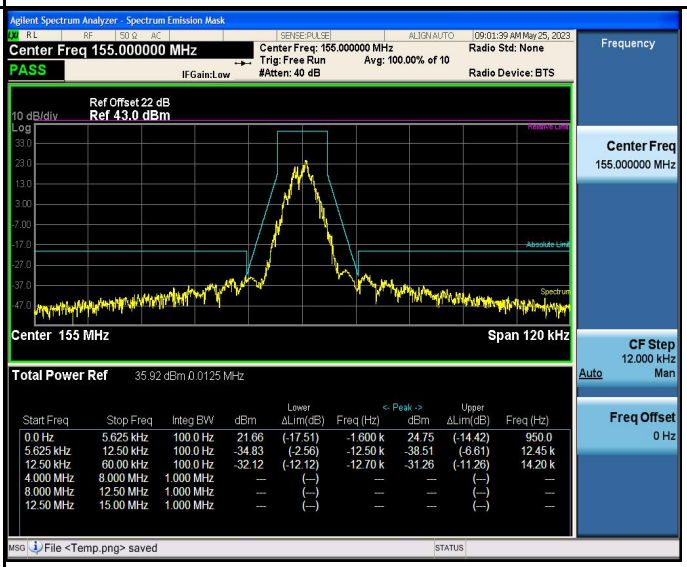
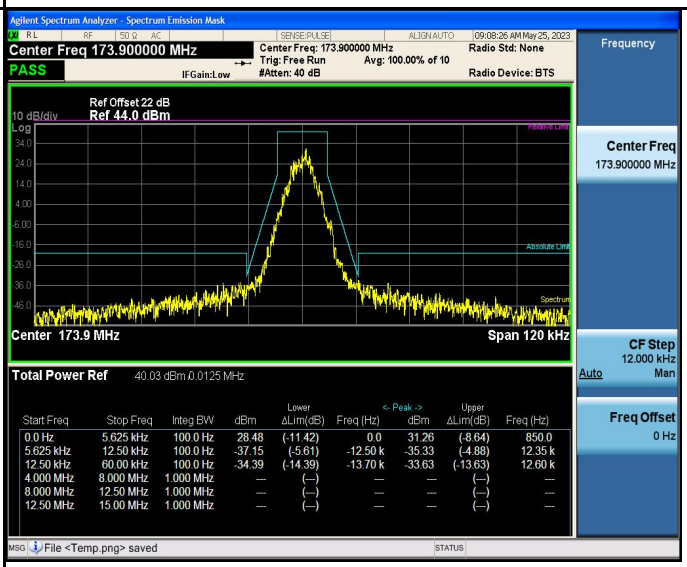
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH_{L1}	
TX-DNL	4FSK	CH_{M1}	
TX-DNL	4FSK	CH_{H1}	

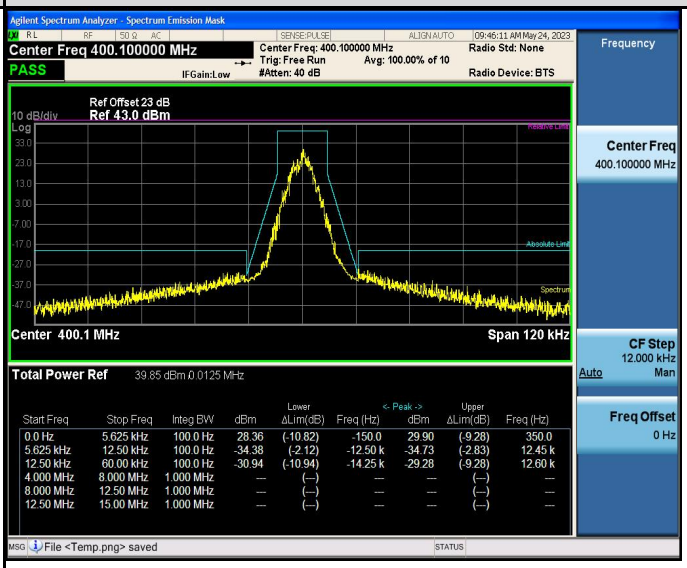
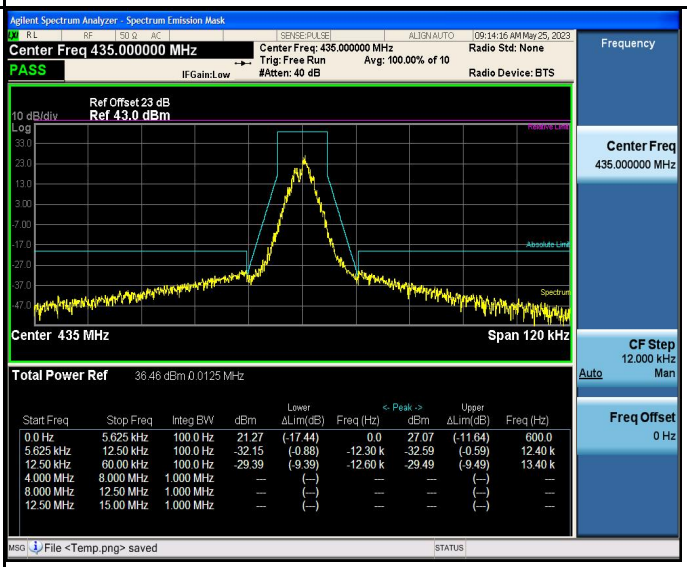
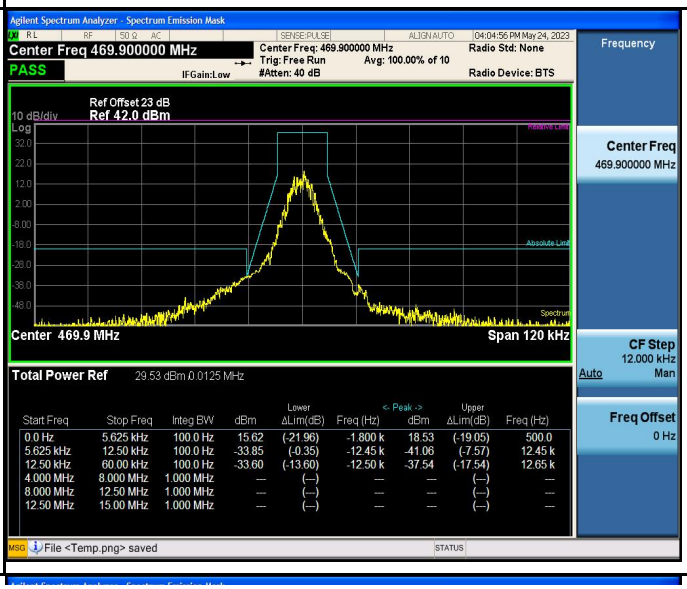
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH_{L2}	
TX-DNL	4FSK	CH_{M2}	
TX-DNL	4FSK	CH_{H2}	

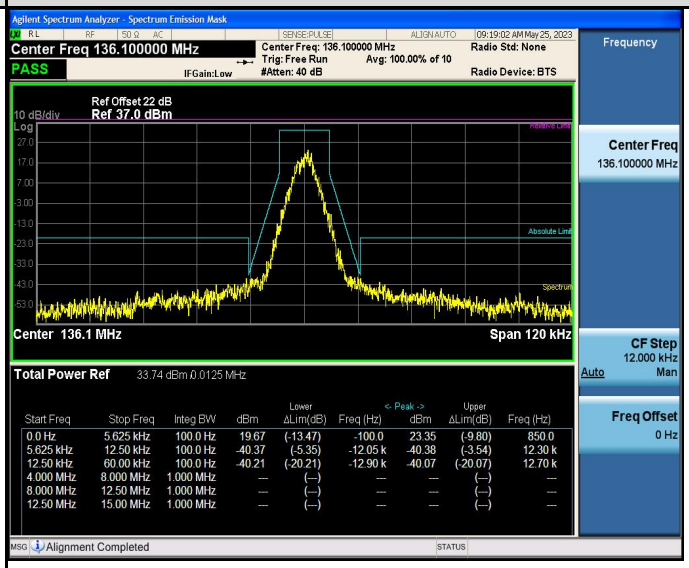
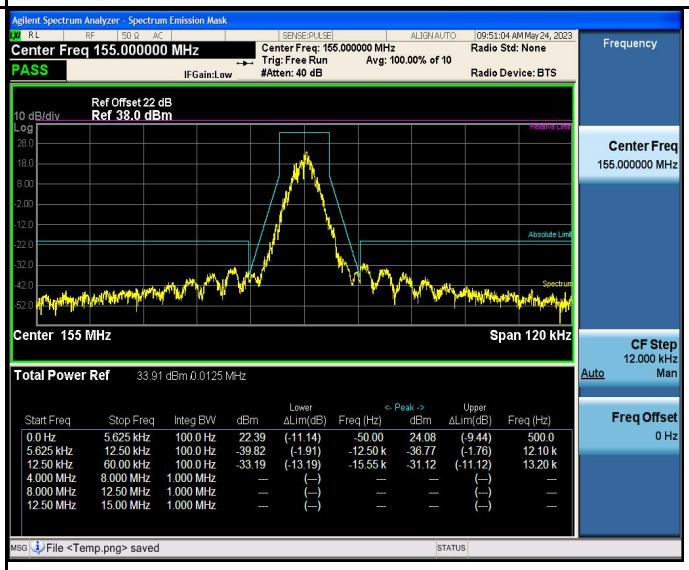
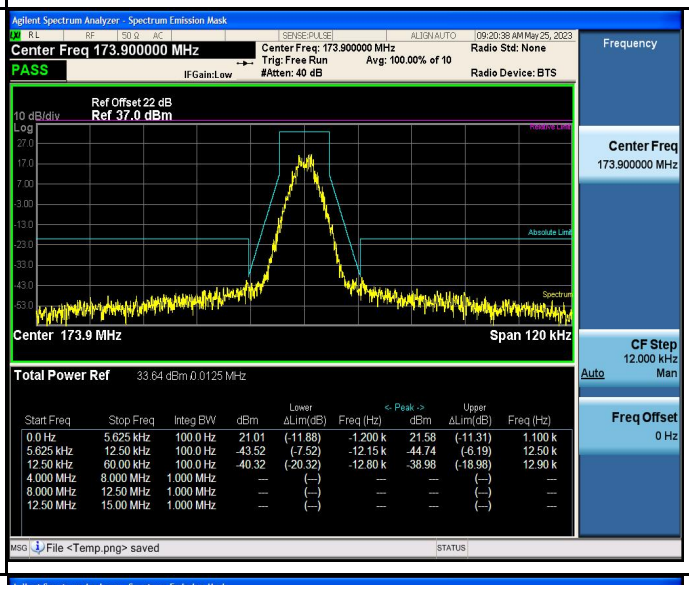
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{L1}	
TX-DNH	4FSK	CH_{M1}	
TX-DNH	4FSK	CH_{H1}	

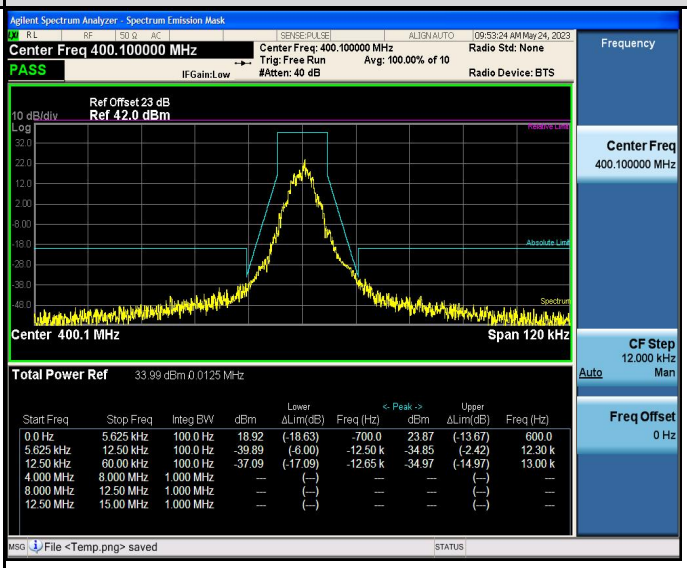
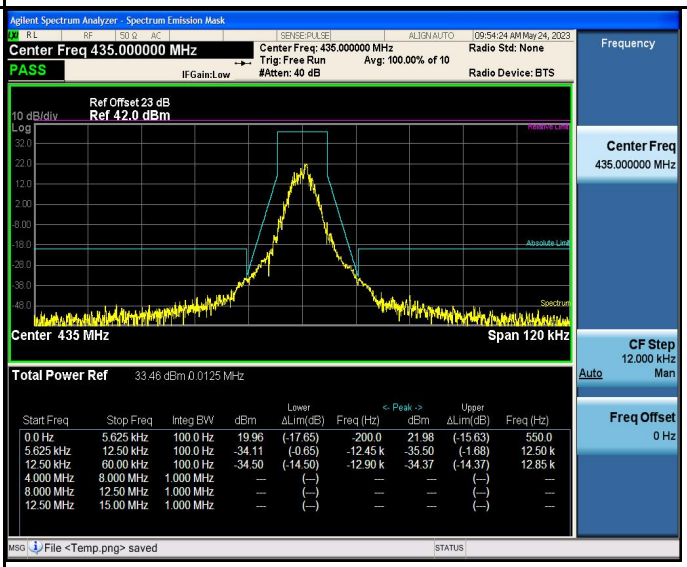
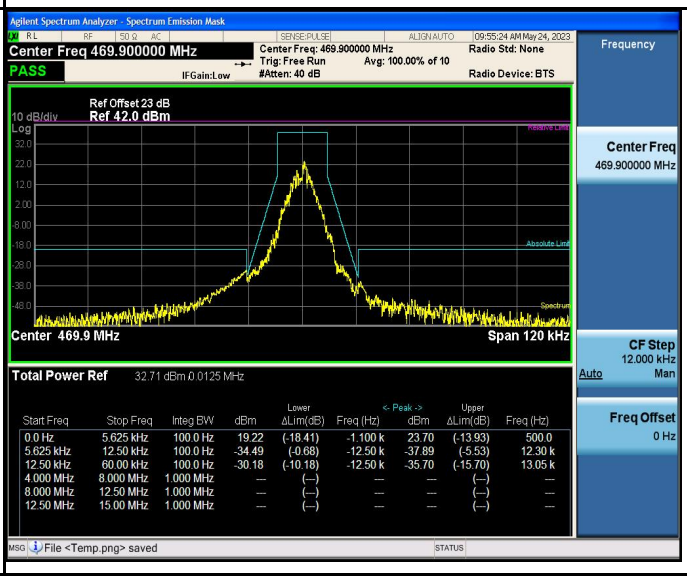
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{L2}	
TX-DNH	4FSK	CH_{M2}	
TX-DNH	4FSK	CH_{H2}	

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH_{L1}	
TX-DNL	4FSK	CH_{M1}	
TX-DNL	4FSK	CH_{H1}	

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH_{L2}	
TX-DNL	4FSK	CH_{M2}	
TX-DNL	4FSK	CH_{H2}	

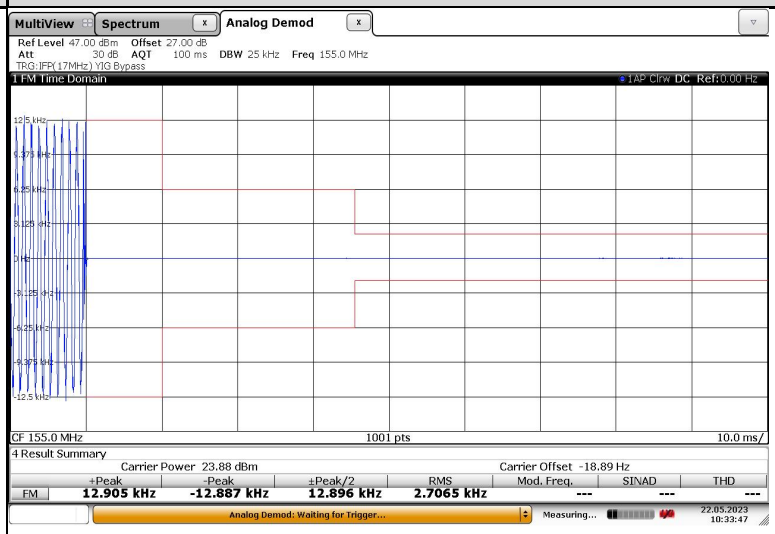
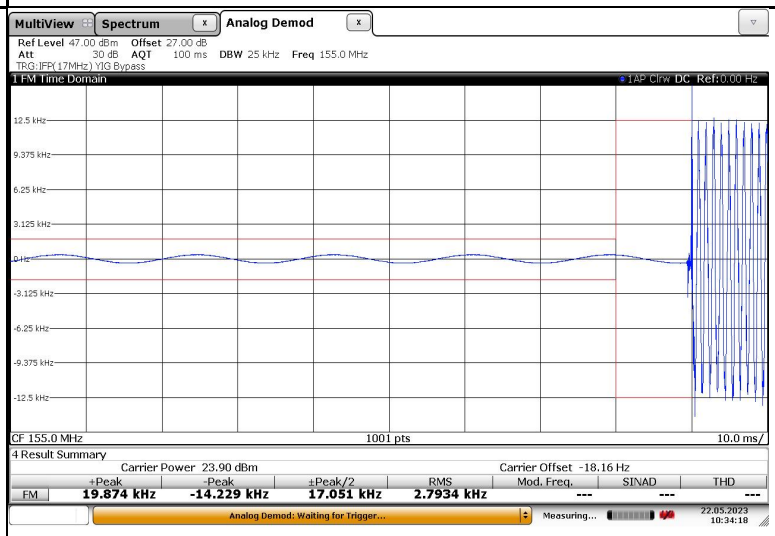
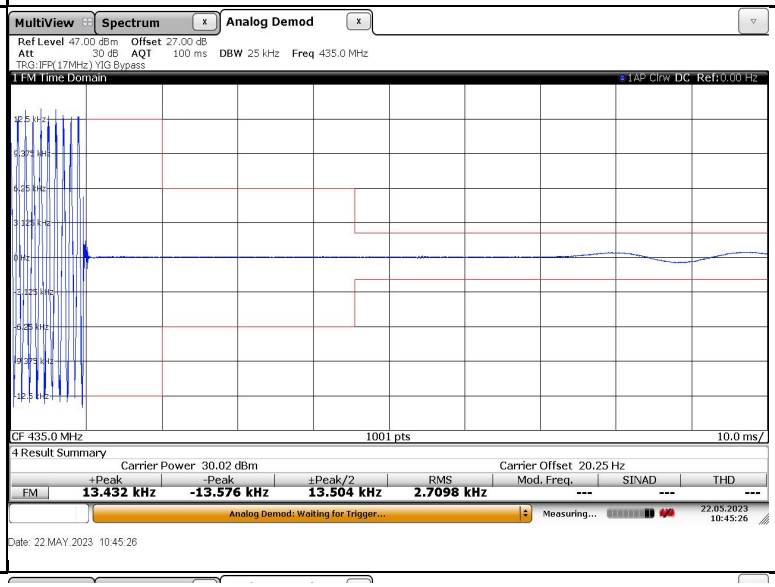
Appendix D:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)						Limit (ppm)	Result
		Voltage	Temperature	CH_{L1}	CH_{M1}	CH_{H1}	CH_{L2}	CH_{M2}	CH_{H2}		
TX-DNH	4FSK	V_N	-30	-0.839	-0.677	-0.812	-0.371	-0.347	-0.355	±5.0	PASS
TX-DNH	4FSK	V_N	-20	-0.857	-0.687	-0.820	-0.361	-0.360	-0.329	±5.0	PASS
TX-DNH	4FSK	V_N	-10	-0.850	-0.742	-0.888	-0.385	-0.353	-0.336	±5.0	PASS
TX-DNH	4FSK	V_N	0	-0.839	-0.711	-0.850	-0.364	-0.361	-0.346	±5.0	PASS
TX-DNH	4FSK	V_N	10	-0.815	-0.700	-0.850	-0.365	-0.341	-0.339	±5.0	PASS
TX-DNH	4FSK	V_N	20	-0.794	-0.677	-0.811	-0.360	-0.334	-0.324	±5.0	PASS
TX-DNH	4FSK	V_N	30	-0.850	-0.713	-0.854	-0.369	-0.344	-0.351	±5.0	PASS
TX-DNH	4FSK	V_N	40	-0.795	-0.696	-0.855	-0.369	-0.351	-0.343	±5.0	PASS
TX-DNH	4FSK	V_N	50	-0.819	-0.733	-0.818	-0.374	-0.348	-0.336	±5.0	PASS
TX-DNL	4FSK	V_N	-30	-0.826	-0.719	-0.919	-0.362	-0.346	-0.332	±5.0	PASS
TX-DNL	4FSK	V_N	-20	-0.796	-0.696	-0.873	-0.351	-0.353	-0.334	±5.0	PASS
TX-DNL	4FSK	V_N	-10	-0.806	-0.695	-0.875	-0.377	-0.346	-0.350	±5.0	PASS
TX-DNL	4FSK	V_N	0	-0.804	-0.736	-0.886	-0.373	-0.346	-0.327	±5.0	PASS
TX-DNL	4FSK	V_N	10	-0.829	-0.680	-0.884	-0.346	-0.337	-0.357	±5.0	PASS
TX-DNL	4FSK	V_N	20	-0.781	-0.675	-0.840	-0.343	-0.329	-0.326	±5.0	PASS
TX-DNL	4FSK	V_N	30	-0.843	-0.676	-0.860	-0.349	-0.329	-0.355	±5.0	PASS
TX-DNL	4FSK	V_N	40	-0.840	-0.703	-0.922	-0.361	-0.342	-0.345	±5.0	PASS
TX-DNL	4FSK	V_N	50	-0.797	-0.717	-0.877	-0.374	-0.348	-0.347	±5.0	PASS

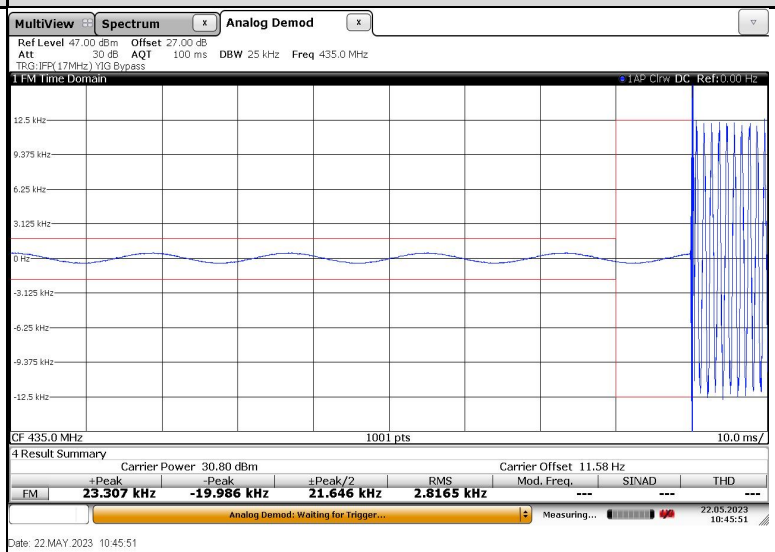
Appendix E:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)						Limit (ppm)	Result
		Voltage	Temperature	CH_{L1}	CH_{M1}	CH_{H1}	CH_{L2}	CH_{M2}	CH_{H2}		
TX-DNH	4FSK	V_N	T_N	-0.794	-0.677	-0.811	-0.360	-0.334	-0.324	±5.0	PASS
TX-DNH	4FSK	V_L	T_N	-0.795	-0.684	-0.827	-0.360	-0.337	-0.326	±5.0	PASS
TX-DNH	4FSK	V_H	T_N	-0.841	-0.694	-0.815	-0.366	-0.352	-0.334	±5.0	PASS
TX-DNL	4FSK	V_N	T_N	-0.781	-0.675	-0.840	-0.343	-0.329	-0.326	±5.0	PASS
TX-DNL	4FSK	V_L	T_N	-0.794	-0.686	-0.849	-0.349	-0.335	-0.330	±5.0	PASS
TX-DNL	4FSK	V_H	T_N	-0.785	-0.708	-0.882	-0.356	-0.342	-0.343	±5.0	PASS

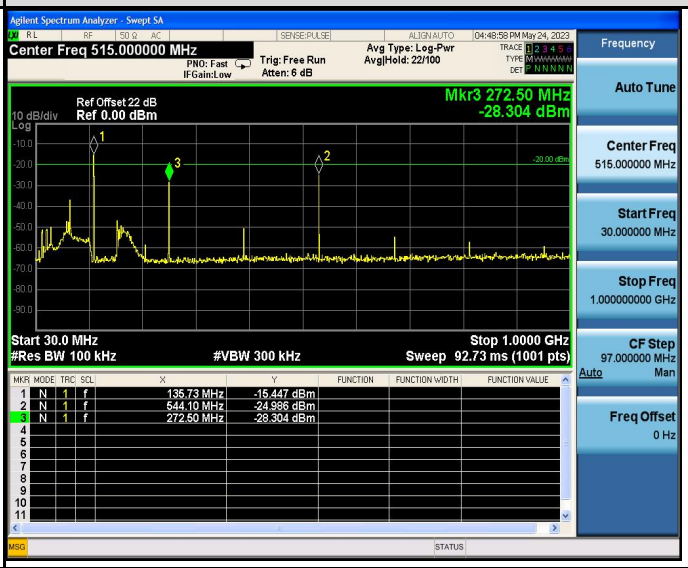
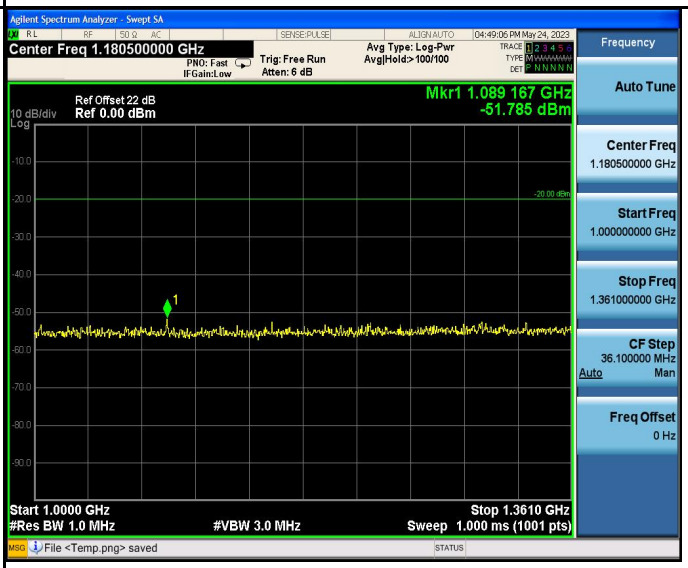
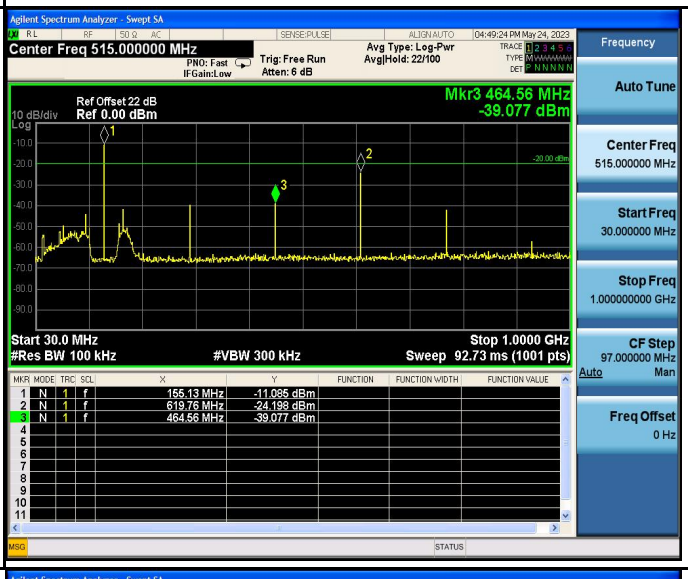
Appendix F:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M1}	
TX-DNH	4FSK	CH_{M1}	
TX-DNH	4FSK	CH_{M2}	

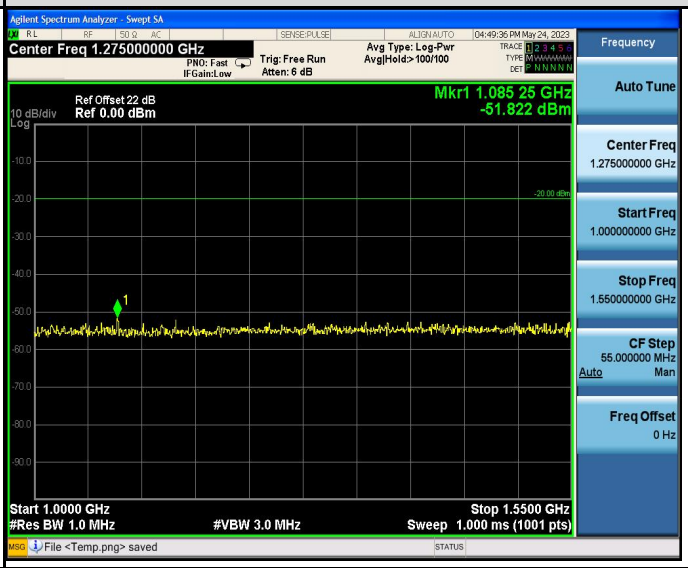
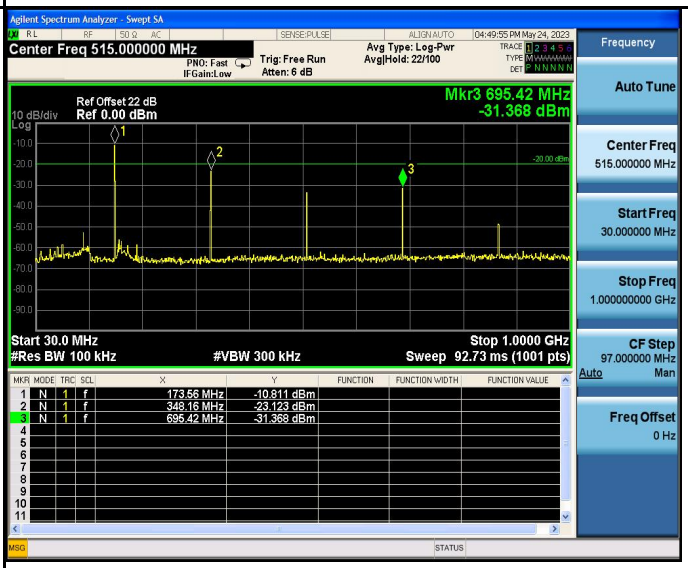
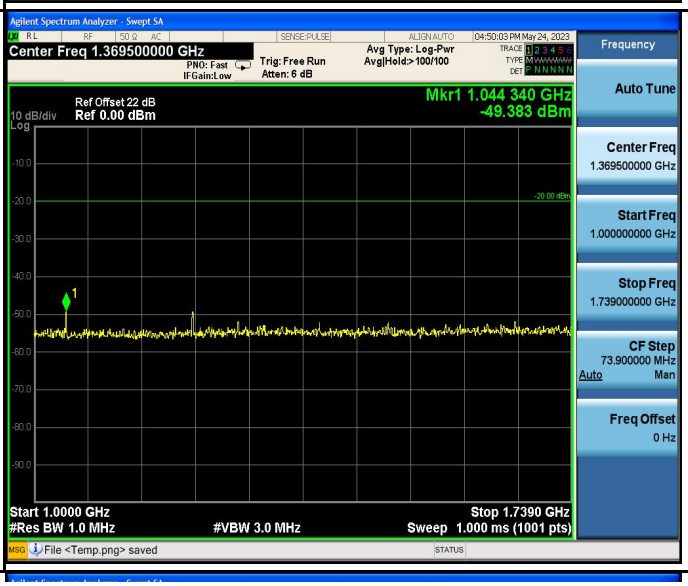
Appendix F:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M2}	

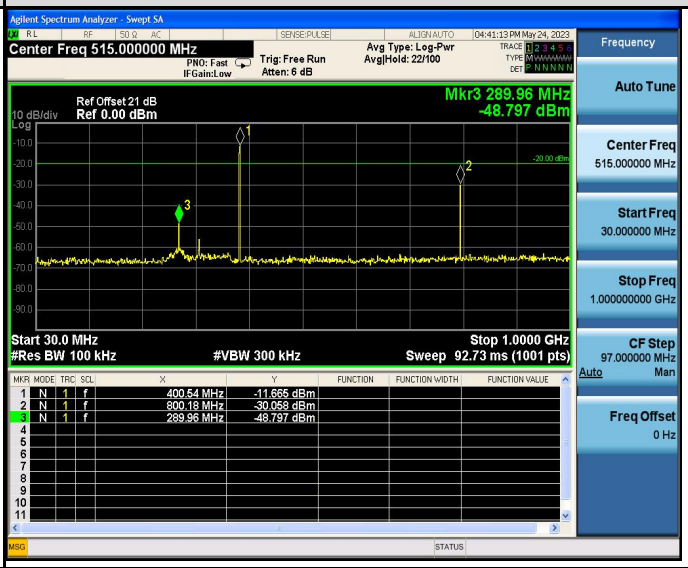
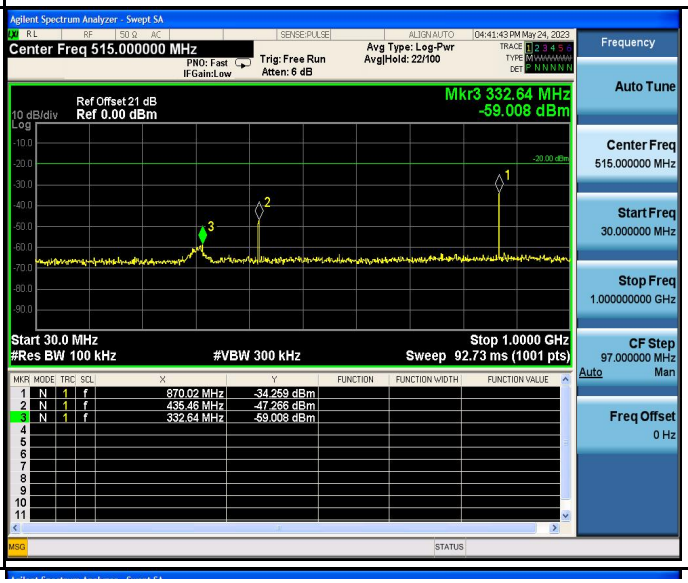
Appendix G:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{L1}	
TX-DNH	4FSK	CH_{L1}	
TX-DNH	4FSK	CH_{M1}	

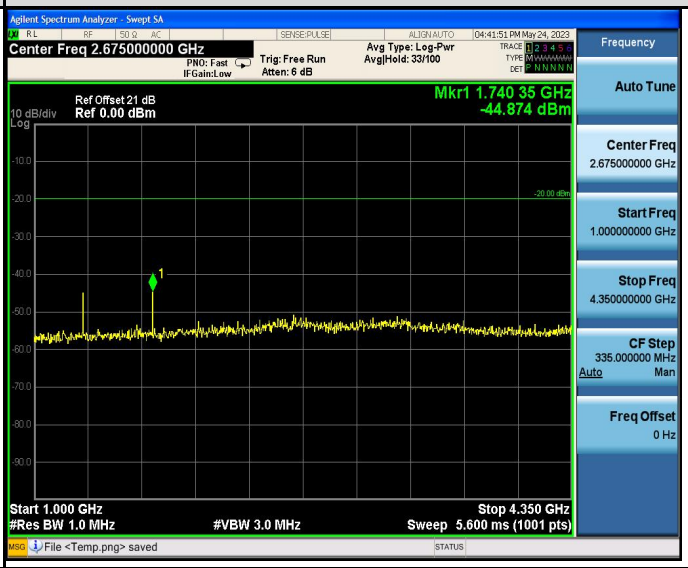
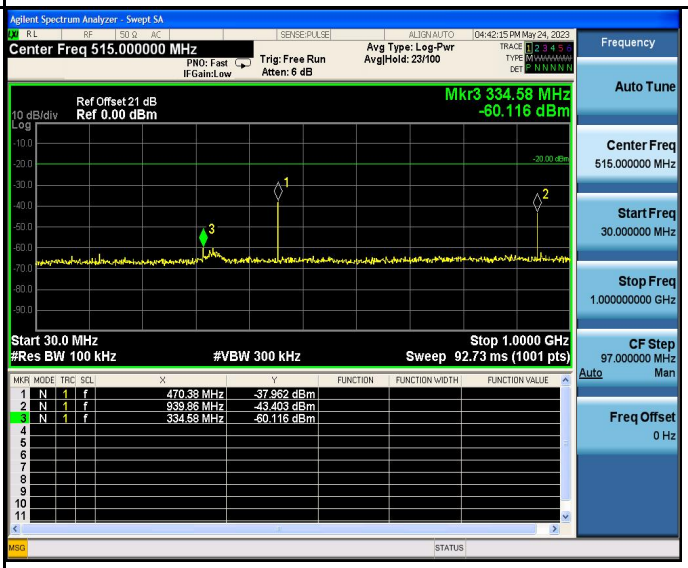
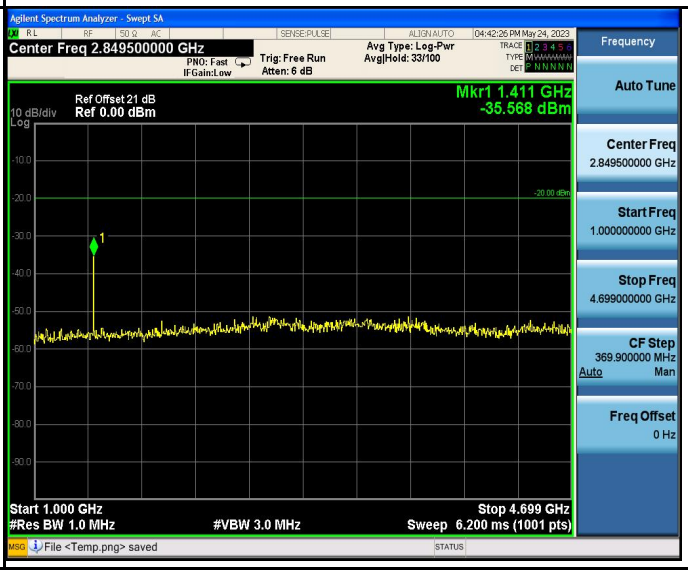
Appendix G:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M1}	
TX-DNH	4FSK	CH_{H1}	
TX-DNH	4FSK	CH_{H1}	

Appendix G:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{L2}	
TX-DNH	4FSK	CH_{L2}	
TX-DNH	4FSK	CH_{M2}	

Appendix G:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M2}	
TX-DNH	4FSK	CH_{H2}	
TX-DNH	4FSK	CH_{H2}	

----End of Report----