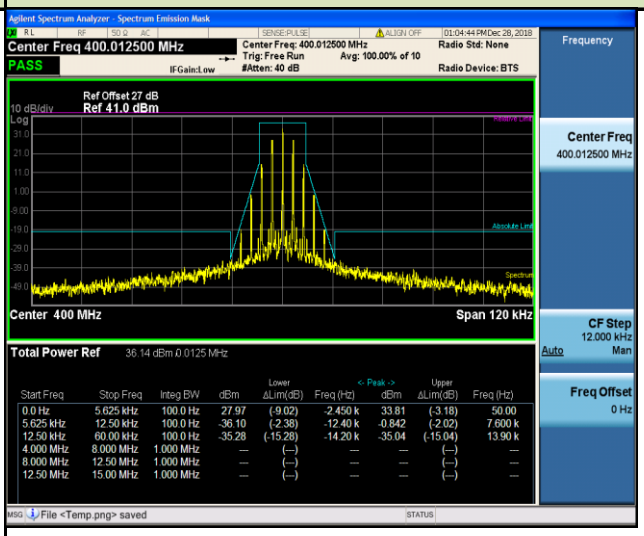
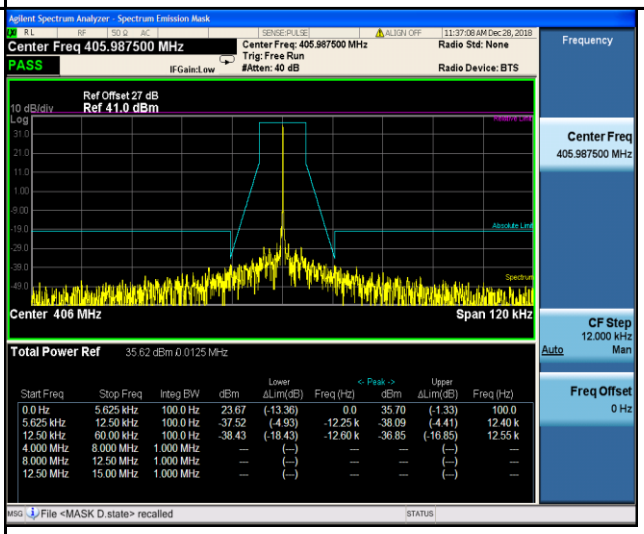
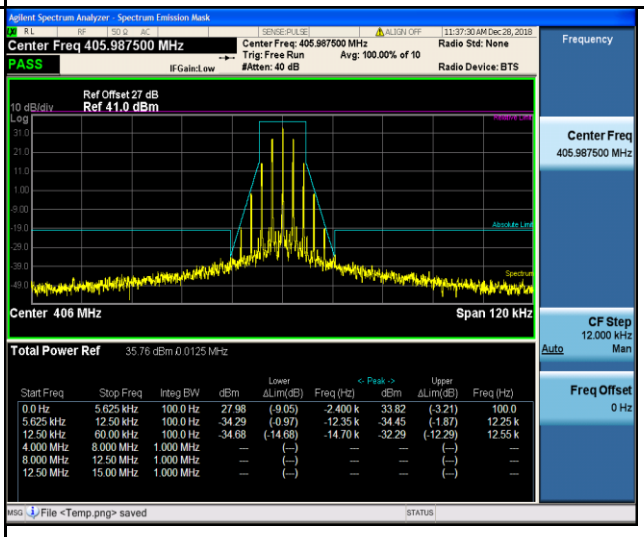
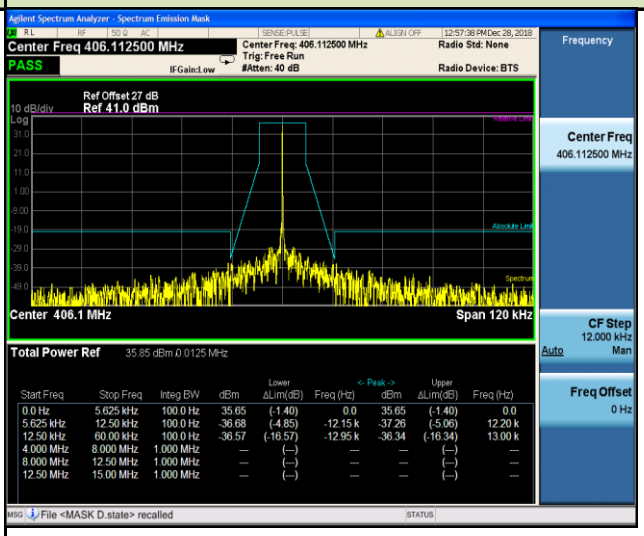
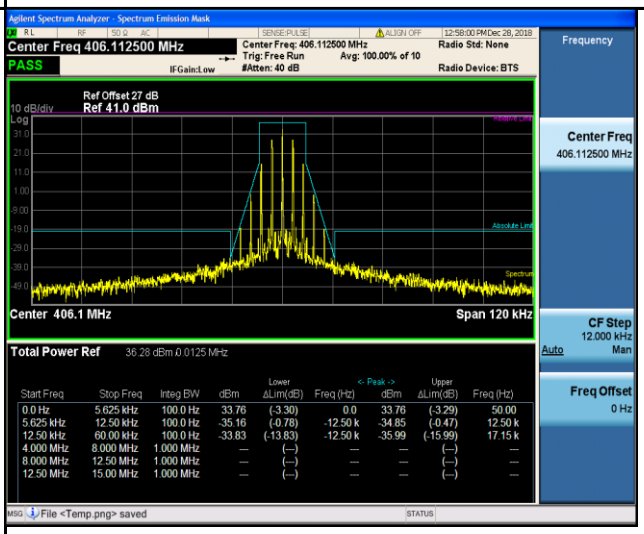
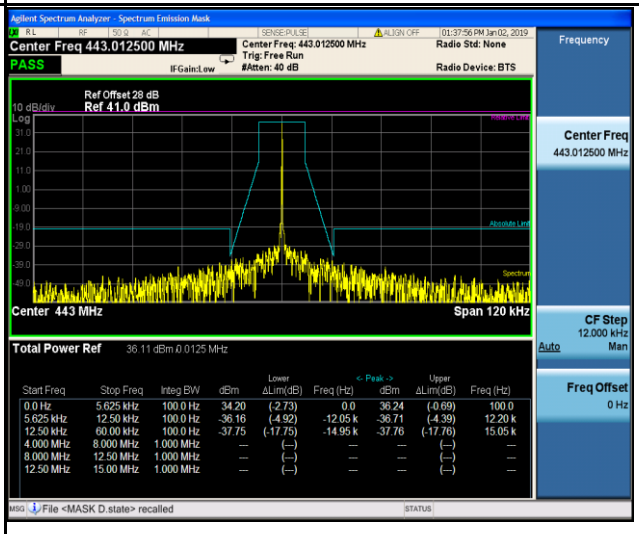
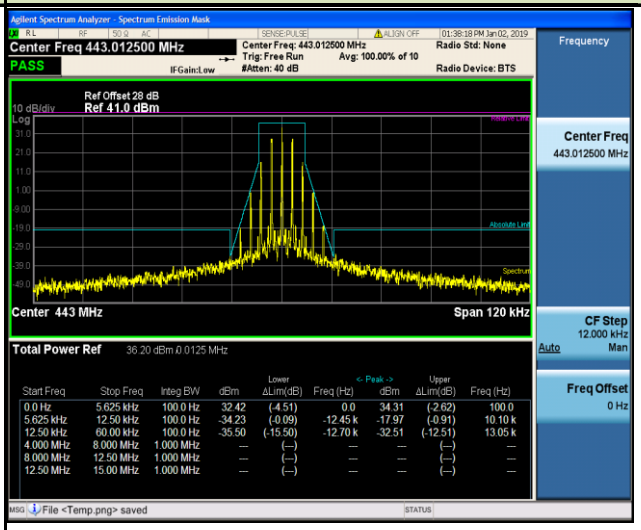
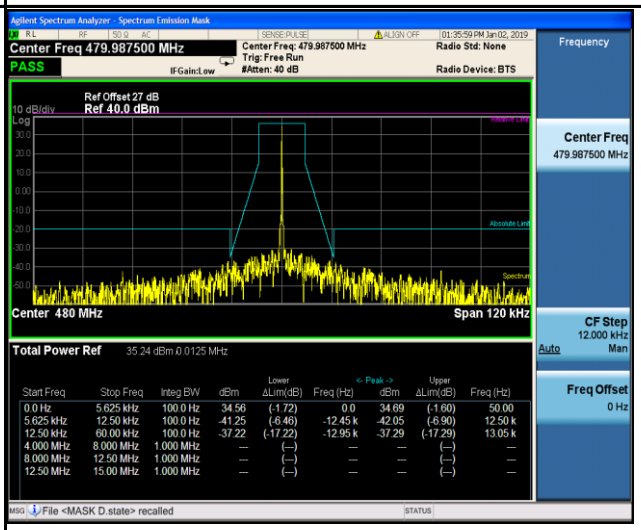
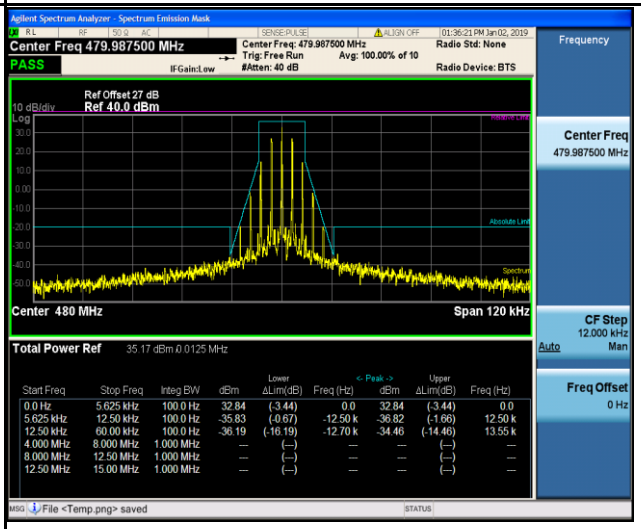
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH_L	
TX-ANH	FM	CH_{M1}	
TX-ANH	FM	CH_{M1}	

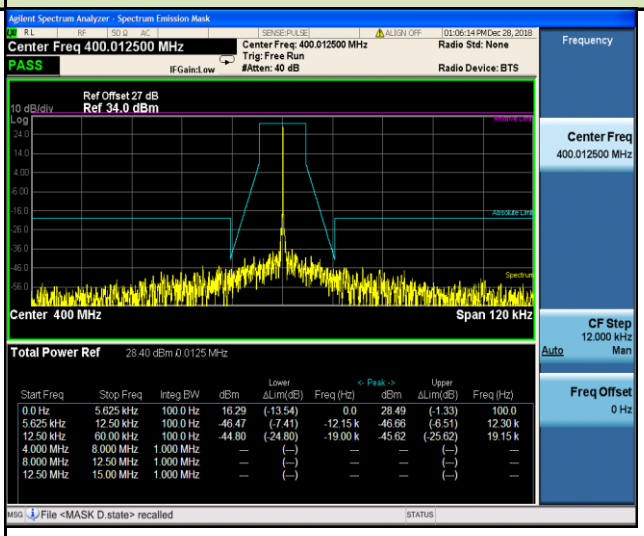
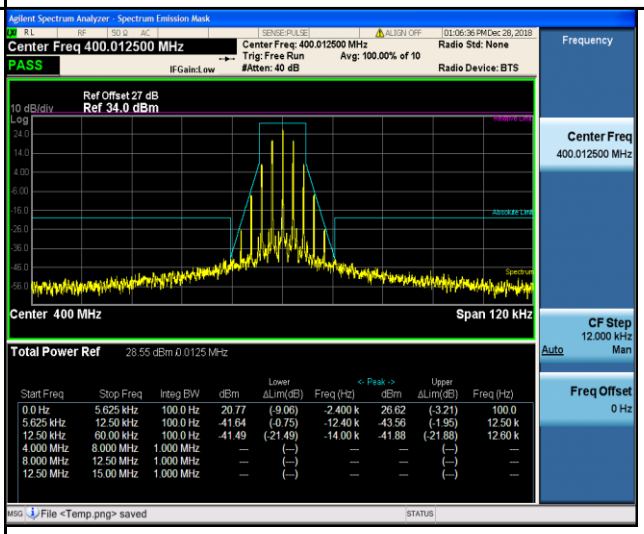
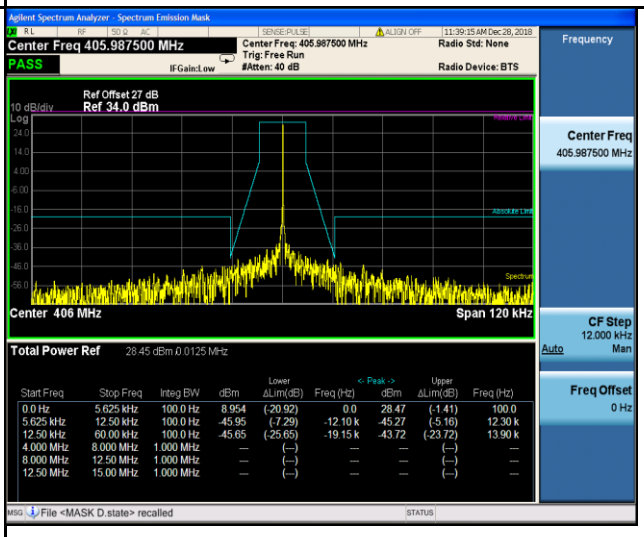
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH_{M2}	
TX-ANH	FM	CH_{M2}	
TX-ANH	FM	CH_{M3}	

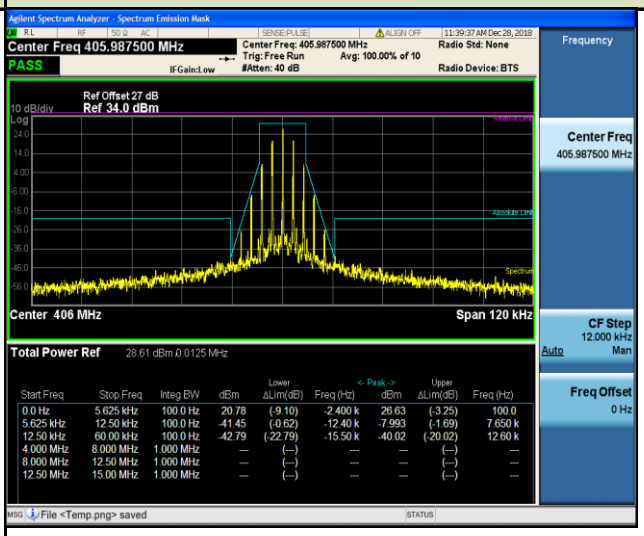
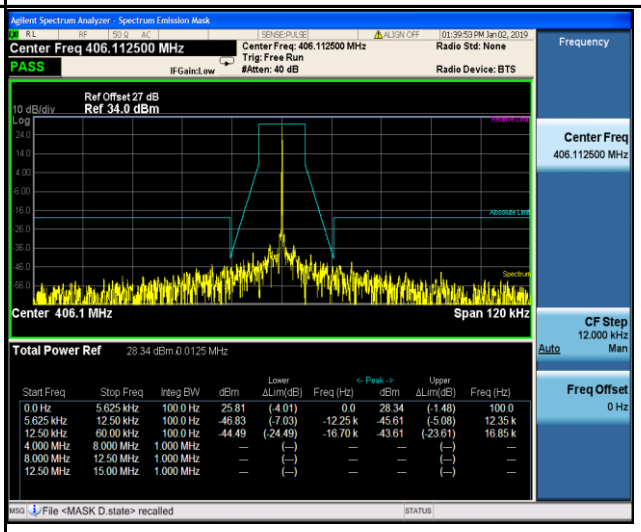
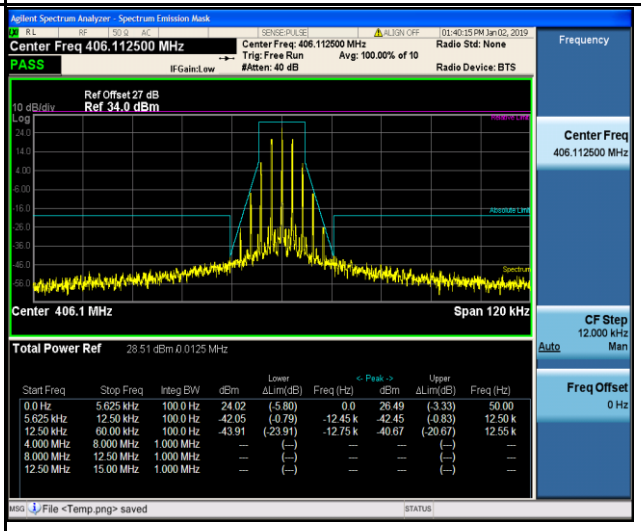
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH_{M3}	
TX-ANH	FM	CH_{H}	
TX-ANH	FM	CH_{H}	

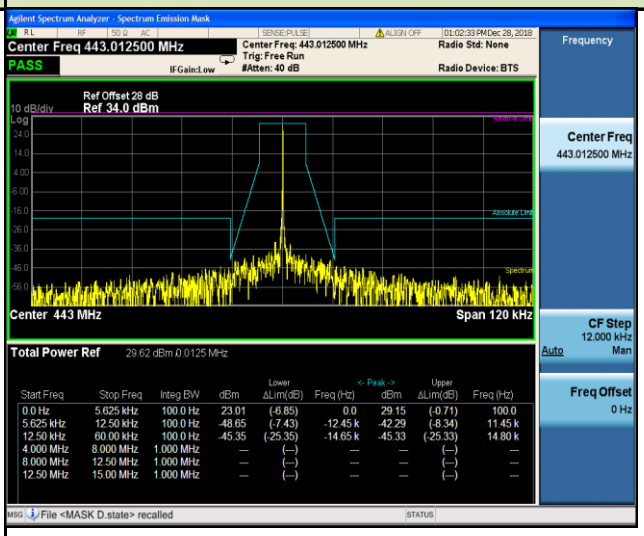
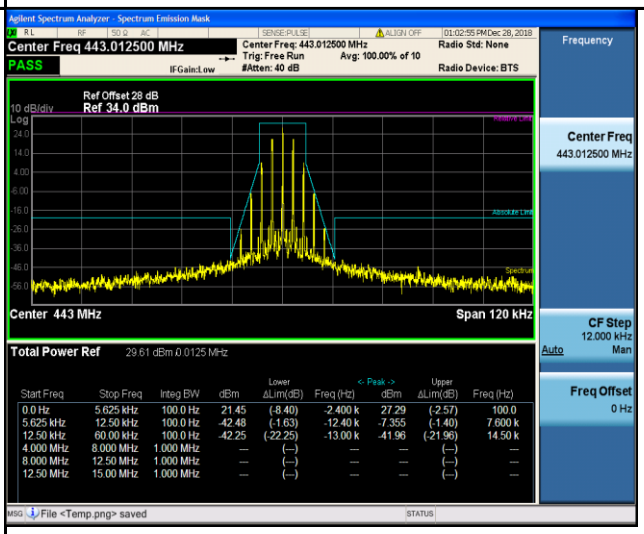
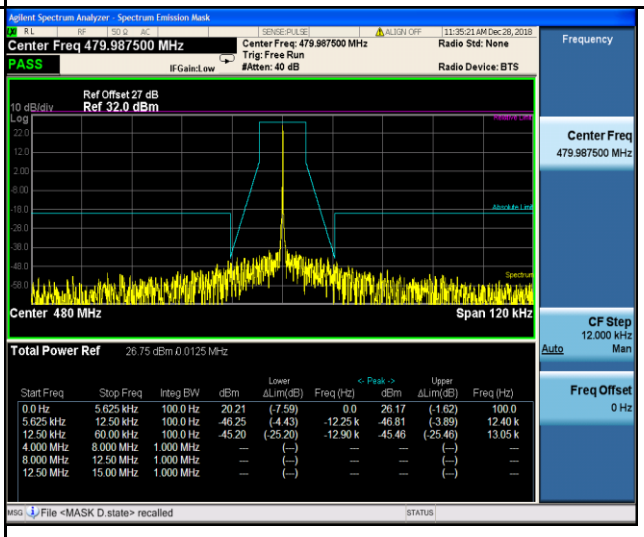
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH_L	
TX-ANL	FM	CH_L	
TX-ANL	FM	CH_{M1}	

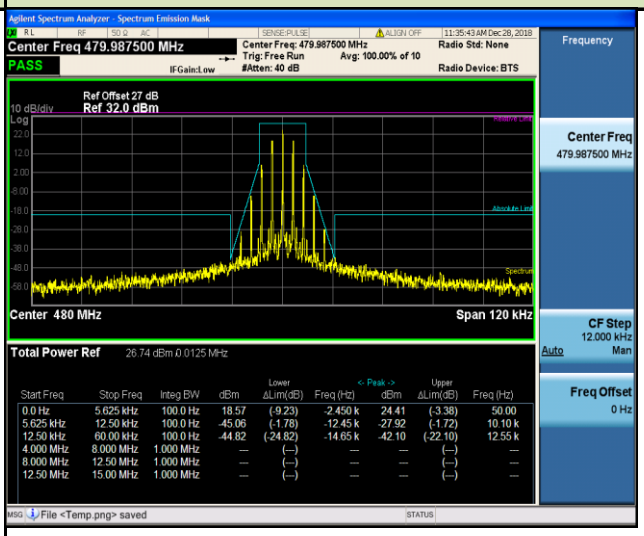
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH_{M1}	
TX-ANL	FM	CH_{M2}	
TX-ANL	FM	CH_{M2}	

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH_{M3}	
TX-ANL	FM	CH_{M3}	
TX-ANL	FM	CH_{H}	

Appendix C:Emission Mask

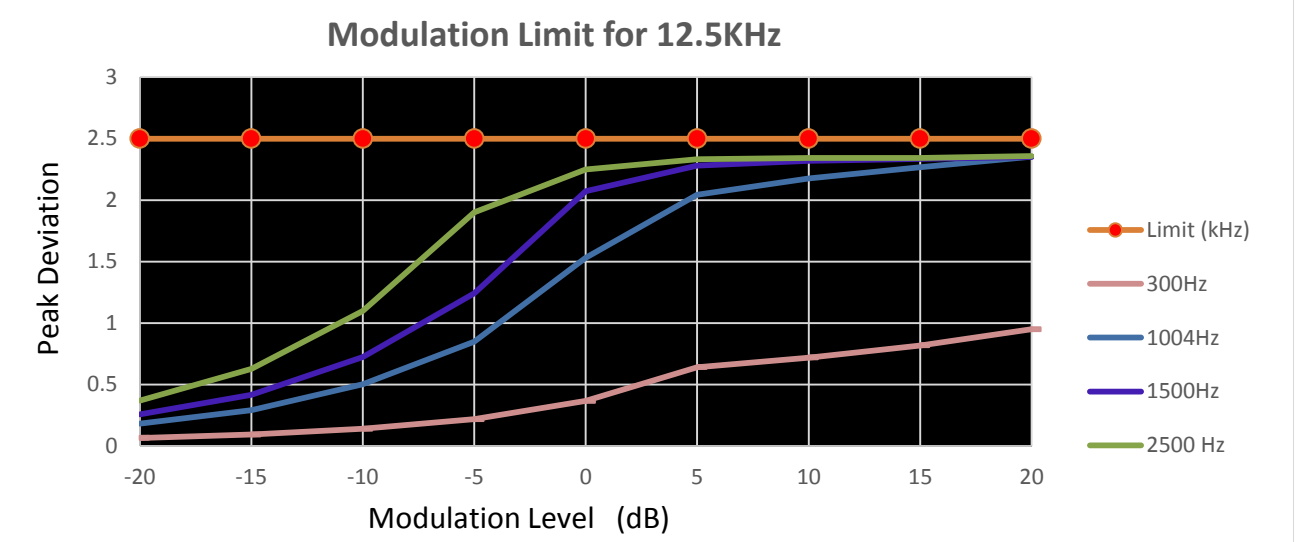
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH_H	

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-ANH	FM	CH_{M2}	-20	0.067	0.184	0.258	0.37	2.5	PASS
TX-ANH	FM	CH_{M2}	-15	0.094	0.293	0.418	0.628	2.5	PASS
TX-ANH	FM	CH_{M2}	-10	0.14	0.503	0.724	1.099	2.5	PASS
TX-ANH	FM	CH_{M2}	-5	0.219	0.848	1.243	1.899	2.5	PASS
TX-ANH	FM	CH_{M2}	0	0.367	1.531	2.071	2.249	2.5	PASS
TX-ANH	FM	CH_{M2}	5	0.642	2.044	2.279	2.332	2.5	PASS
TX-ANH	FM	CH_{M2}	10	0.719	2.176	2.32	2.342	2.5	PASS
TX-ANH	FM	CH_{M2}	15	0.819	2.267	2.335	2.343	2.5	PASS
TX-ANH	FM	CH_{M2}	20	0.95	2.352	2.35	2.358	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

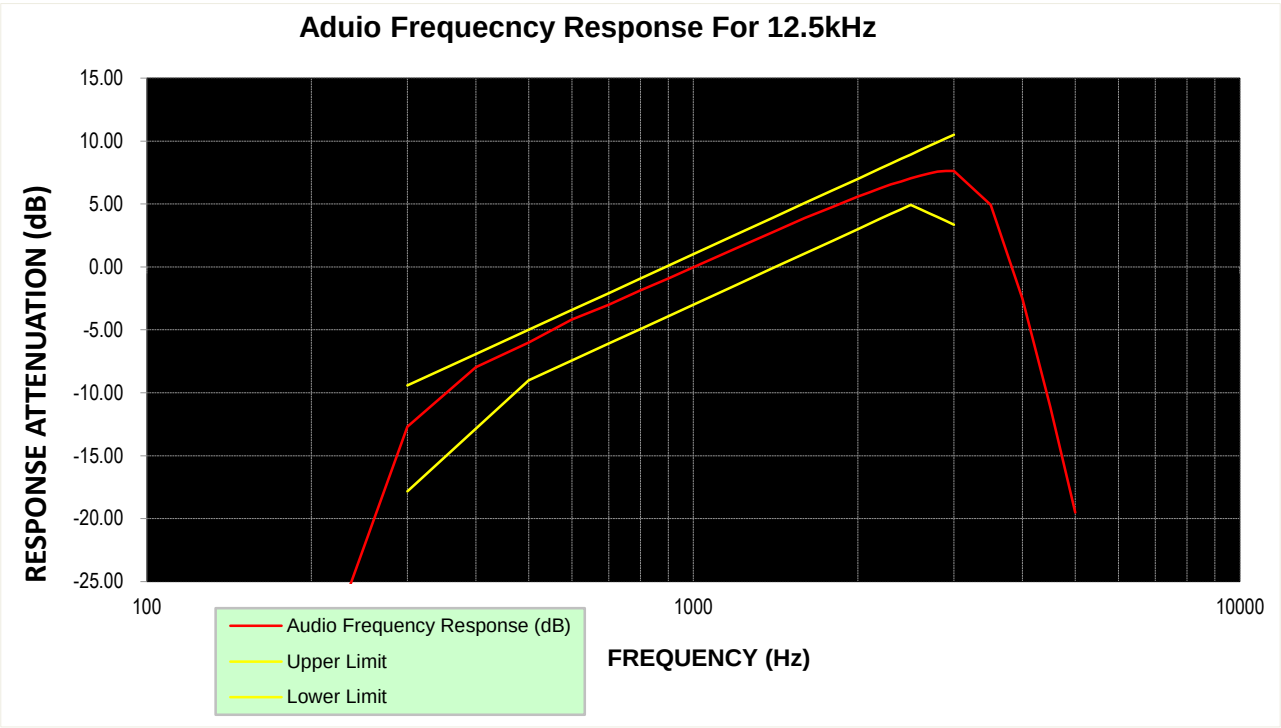


Appendix E:Aduio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH_{M2}	100	-33.67	-	-	PASS
TX-ANH	FM	CH_{M2}	200	-33.83	-	-	PASS
TX-ANH	FM	CH_{M2}	300	-12.69	-17.84	-9.42	PASS
TX-ANH	FM	CH_{M2}	400	-7.98	-12.86	-6.93	PASS
TX-ANH	FM	CH_{M2}	500	-6.00	-9.00	-5.00	PASS
TX-ANH	FM	CH_{M2}	600	-4.18	-7.42	-3.42	PASS
TX-ANH	FM	CH_{M2}	700	-3.00	-6.09	-2.09	PASS
TX-ANH	FM	CH_{M2}	800	-1.85	-4.93	-0.93	PASS
TX-ANH	FM	CH_{M2}	900	-0.93	-3.91	0.09	PASS
TX-ANH	FM	CH_{M2}	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH_{M2}	1200	1.49	-1.42	2.58	PASS
TX-ANH	FM	CH_{M2}	1400	2.78	-0.09	3.91	PASS
TX-ANH	FM	CH_{M2}	1600	3.89	1.07	5.07	PASS
TX-ANH	FM	CH_{M2}	1800	4.79	2.09	6.09	PASS
TX-ANH	FM	CH_{M2}	2000	5.58	3.00	7.00	PASS
TX-ANH	FM	CH_{M2}	2100	5.92	3.42	7.42	PASS
TX-ANH	FM	CH_{M2}	2200	6.24	3.83	7.83	PASS
TX-ANH	FM	CH_{M2}	2300	6.54	4.21	8.21	PASS
TX-ANH	FM	CH_{M2}	2400	6.79	4.58	8.58	PASS
TX-ANH	FM	CH_{M2}	2500	7.03	4.93	8.93	PASS
TX-ANH	FM	CH_{M2}	2600	7.26	4.59	9.27	PASS
TX-ANH	FM	CH_{M2}	2700	7.43	4.27	9.60	PASS
TX-ANH	FM	CH_{M2}	2800	7.56	3.95	9.91	PASS
TX-ANH	FM	CH_{M2}	2900	7.64	3.65	10.22	PASS
TX-ANH	FM	CH_{M2}	3000	7.62	3.35	10.51	PASS
TX-ANH	FM	CH_{M2}	3500	4.94	-	-	PASS
TX-ANH	FM	CH_{M2}	4000	-2.52	-	-	PASS
TX-ANH	FM	CH_{M2}	4500	-11.12	-	-	PASS
TX-ANH	FM	CH_{M2}	5000	-19.51	-	-	PASS

Appendix E:Aduio Frequency Response

TEST PLOT RESULT



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

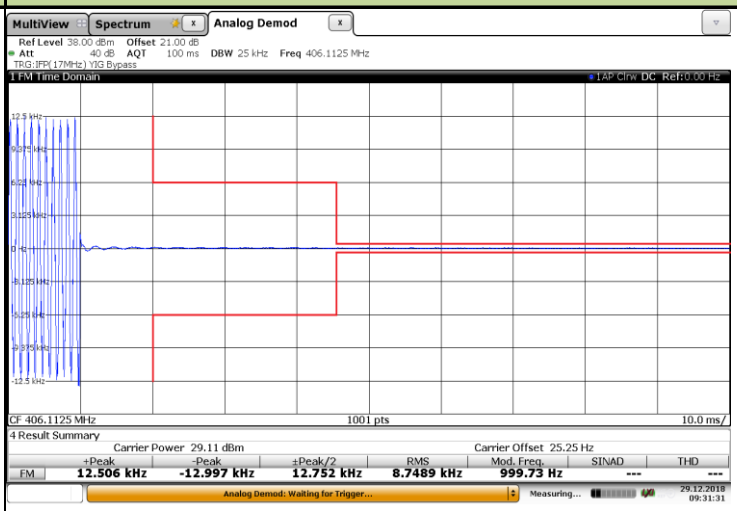
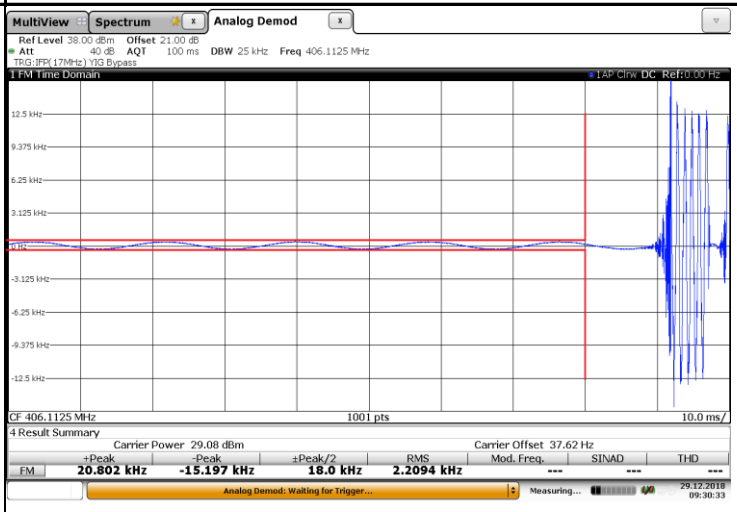
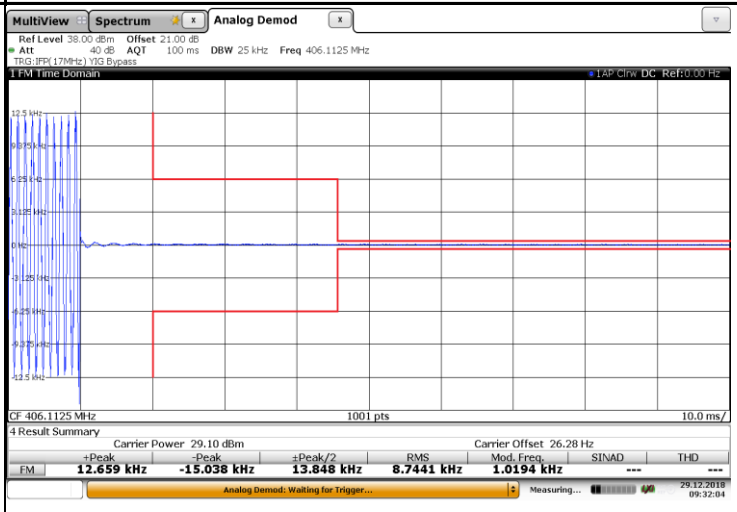
Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH_L	CH_{M1}	CH_{M2}	CH_{M3}	CH_H		
TX-DNH	4FSK	V_N	-30	-0.082	-0.069	-0.038	-0.103	-0.157	±5.0	PASS
TX-DNH	4FSK	V_N	-20	-0.072	-0.063	-0.034	-0.094	-0.131	±5.0	PASS
TX-DNH	4FSK	V_N	-10	-0.066	-0.054	-0.030	-0.085	-0.120	±5.0	PASS
TX-DNH	4FSK	V_N	0	-0.053	-0.042	-0.025	-0.066	-0.098	±5.0	PASS
TX-DNH	4FSK	V_N	10	-0.043	-0.032	-0.017	-0.055	-0.077	±5.0	PASS
TX-DNH	4FSK	V_N	20	-0.031	-0.026	**-0.014**	-0.039	-0.059	±5.0	PASS
TX-DNH	4FSK	V_N	30	-0.042	-0.039	-0.019	-0.051	-0.083	±5.0	PASS
TX-DNH	4FSK	V_N	40	-0.059	-0.048	-0.024	-0.069	-0.105	±5.0	PASS
TX-DNH	4FSK	V_N	55	-0.065	-0.055	-0.027	-0.074	-0.123	±5.0	PASS
TX-DNL	4FSK	V_N	-30	-0.068	-0.102	-0.114	-0.152	-0.144	±5.0	PASS
TX-DNL	4FSK	V_N	-20	-0.059	-0.095	-0.100	-0.138	-0.110	±5.0	PASS
TX-DNL	4FSK	V_N	-10	-0.050	-0.075	-0.081	-0.107	-0.109	±5.0	PASS
TX-DNL	4FSK	V_N	0	-0.042	-0.064	-0.069	-0.084	-0.085	±5.0	PASS
TX-DNL	4FSK	V_N	10	-0.038	-0.056	-0.057	-0.083	-0.072	±5.0	PASS
TX-DNL	4FSK	V_N	20	-0.026	-0.039	-0.041	-0.055	-0.052	±5.0	PASS
TX-DNL	4FSK	V_N	30	-0.034	-0.055	-0.055	-0.073	-0.075	±5.0	PASS
TX-DNL	4FSK	V_N	40	-0.048	-0.067	-0.072	-0.098	-0.096	±5.0	PASS
TX-DNL	4FSK	V_N	55	-0.051	-0.076	-0.078	-0.106	-0.106	±5.0	PASS
TX-ANH	FM	V_N	-30	0.385	0.373	0.378	**0.385**	0.371	±5.0	PASS
TX-ANH	FM	V_N	-20	0.381	0.374	0.379	0.382	0.359	±5.0	PASS
TX-ANH	FM	V_N	-10	0.366	0.358	0.362	0.374	0.346	±5.0	PASS
TX-ANH	FM	V_N	0	0.359	0.343	0.351	0.352	0.339	±5.0	PASS
TX-ANH	FM	V_N	10	0.347	0.332	0.339	0.343	0.331	±5.0	PASS
TX-ANH	FM	V_N	20	0.326	0.316	0.321	0.325	0.309	±5.0	PASS
TX-ANH	FM	V_N	30	0.348	0.334	0.339	0.341	0.334	±5.0	PASS
TX-ANH	FM	V_N	40	0.362	0.345	0.354	0.358	0.342	±5.0	PASS
TX-ANH	FM	V_N	55	0.369	0.354	0.364	0.363	0.352	±5.0	PASS
TX-ANL	FM	V_N	-30	0.385	0.372	0.377	0.385	0.365	±5.0	PASS
TX-ANL	FM	V_N	-20	0.383	0.363	0.368	0.368	0.356	±5.0	PASS
TX-ANL	FM	V_N	-10	0.363	0.353	0.361	0.364	0.346	±5.0	PASS
TX-ANL	FM	V_N	0	0.358	0.340	0.349	0.347	0.340	±5.0	PASS
TX-ANL	FM	V_N	10	0.347	0.333	0.338	0.337	0.324	±5.0	PASS
TX-ANL	FM	V_N	20	0.328	0.318	0.320	0.325	0.313	±5.0	PASS
TX-ANL	FM	V_N	30	0.343	0.329	0.337	0.336	0.328	±5.0	PASS
TX-ANL	FM	V_N	40	0.358	0.346	0.347	0.347	0.340	±5.0	PASS
TX-ANL	FM	V_N	55	0.371	0.353	0.355	0.364	0.344	±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_{M2}	CH_{M3}	CH_H		
TX-DNH	4FSK	V_N	T_N	-0.031	-0.026	**-0.014**	-0.039	-0.059	±5.0	PASS
TX-DNH	4FSK	V_L	T_N	-0.061	-0.065	-0.045	-0.080	-0.100	±5.0	PASS
TX-DNH	4FSK	V_H	T_N	-0.052	-0.045	-0.038	-0.064	-0.081	±5.0	PASS
TX-DNL	4FSK	V_N	T_N	-0.063	-0.059	-0.064	-0.080	-0.089	±5.0	PASS
TX-DNL	4FSK	V_L	T_N	-0.080	-0.071	-0.063	-0.078	-0.091	±5.0	PASS
TX-DNL	4FSK	V_H	T_N	-0.055	-0.048	-0.032	-0.063	-0.079	±5.0	PASS
TX-ANH	FM	V_N	T_N	0.326	0.316	0.321	0.325	0.309	±5.0	PASS
TX-ANH	FM	V_L	T_N	0.368	0.353	0.353	0.368	0.355	±5.0	PASS
TX-ANH	FM	V_H	T_N	0.346	0.339	0.342	0.345	0.327	±5.0	PASS
TX-ANL	FM	V_N	T_N	0.357	0.355	0.363	0.356	0.342	±5.0	PASS
TX-ANL	FM	V_L	T_N	**0.375**	0.345	0.347	0.366	0.339	±5.0	PASS
TX-ANL	FM	V_H	T_N	0.346	0.334	0.339	0.347	0.327	±5.0	PASS

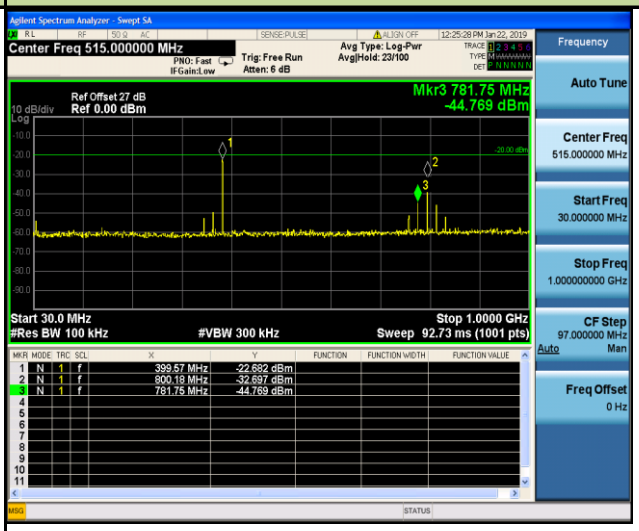
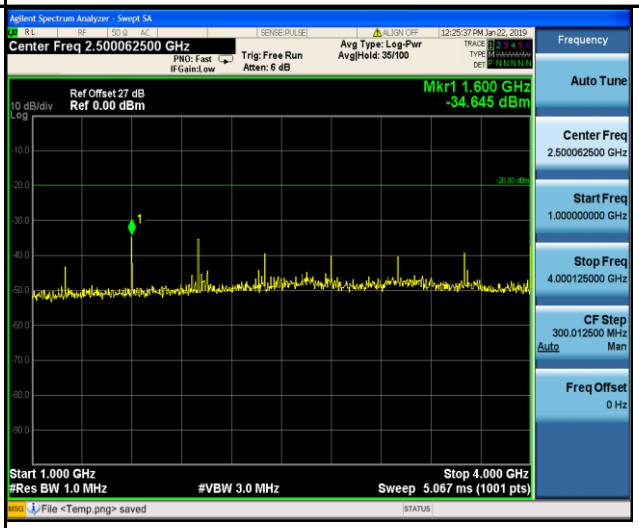
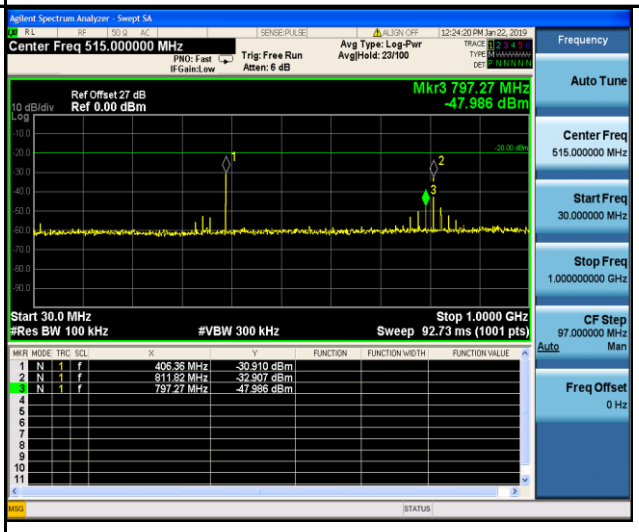
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M2}	 OFF~ON
TX-DNH	4FSK	CH_{M2}	 ON-OFF
TX-ANH	FM	CH_{M2}	 OFF~ON

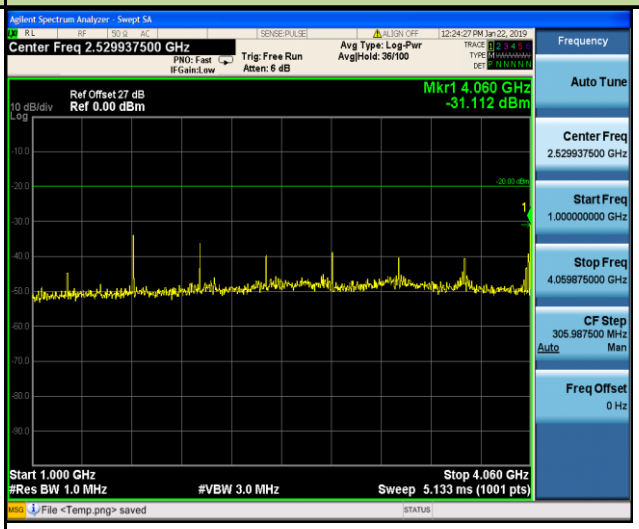
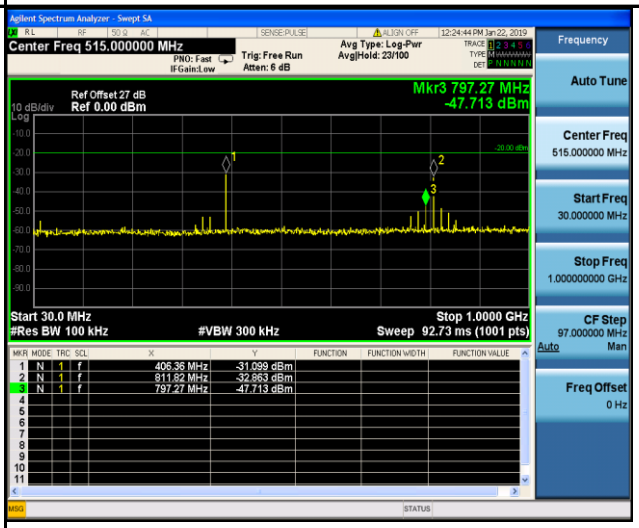
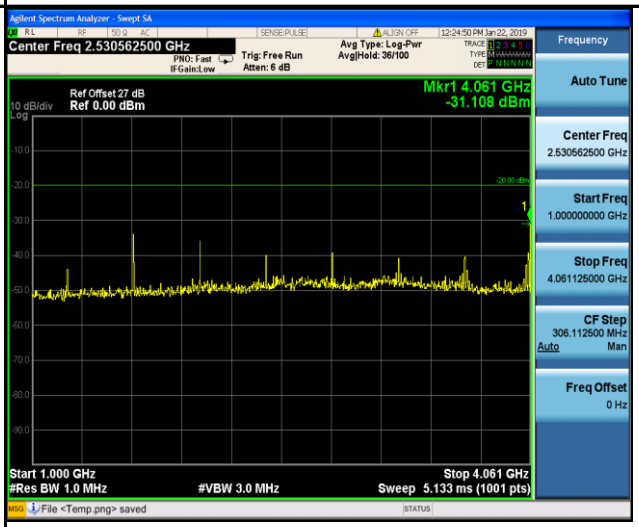
Appendix H:Transmitter Frequency Behavior

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

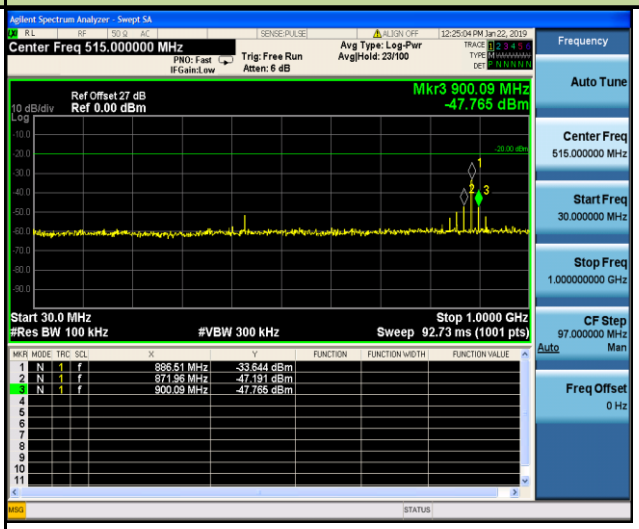
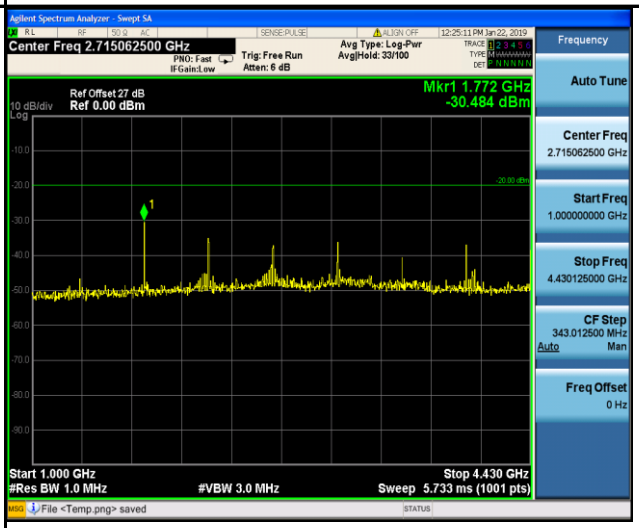
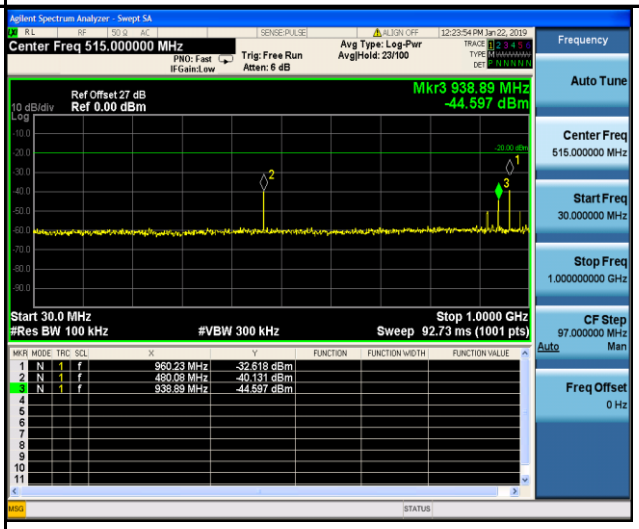
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_L	 30MHz~1GHz
TX-DNH	4FSK	CH_L	 1GHz~10th Harmonic
TX-DNH	4FSK	CH_{M1}	 30MHz~1GHz

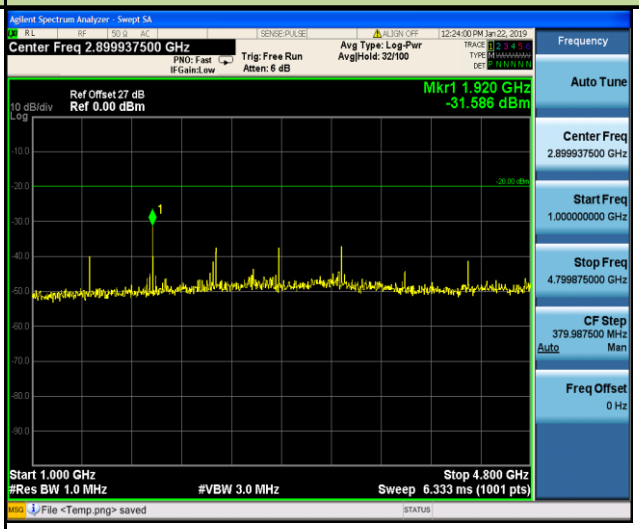
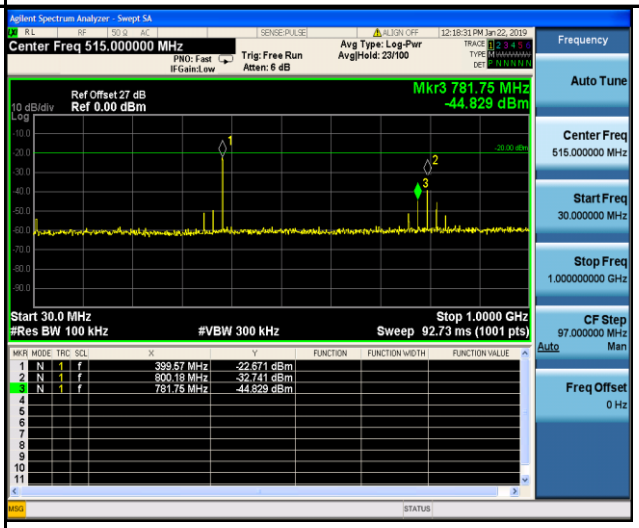
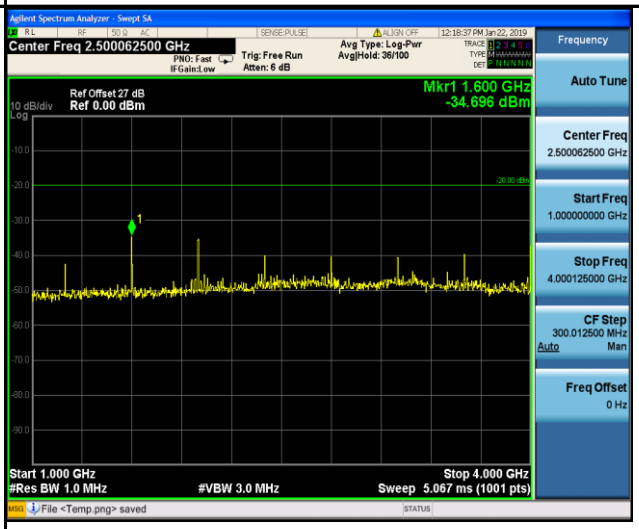
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M1}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH_{M2}	 30MHz~1GHz
TX-DNH	4FSK	CH_{M2}	 1GHz~10th Harmonic

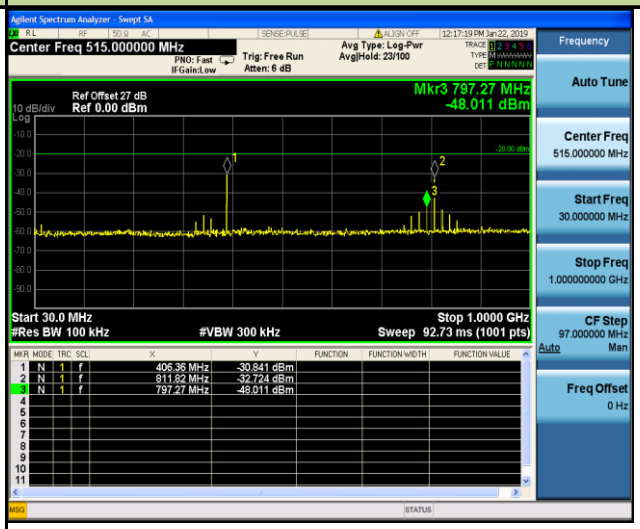
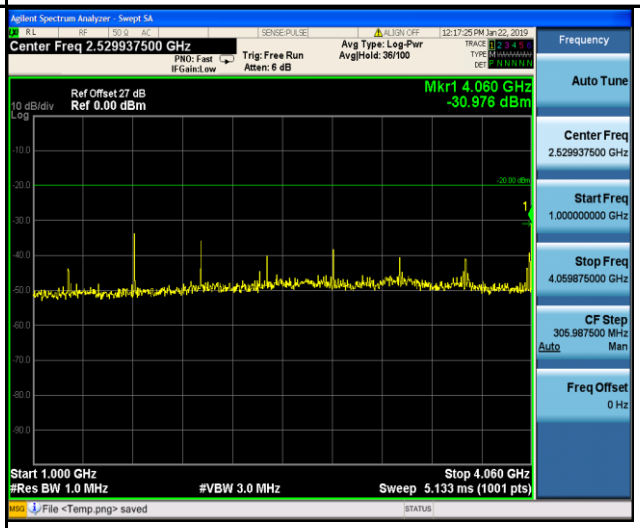
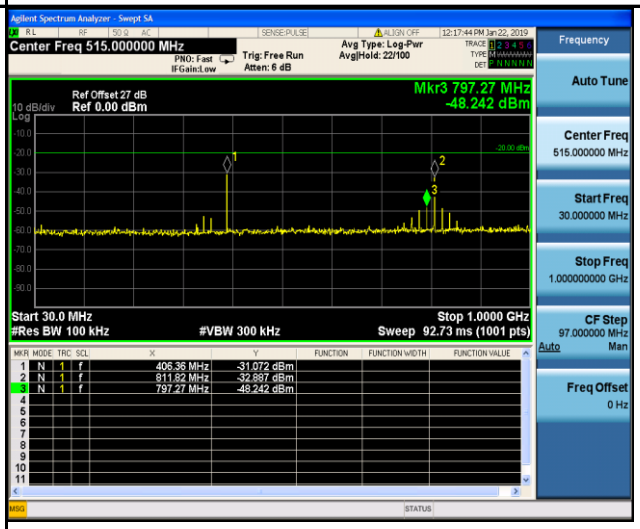
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_{M3}	 30MHz~1GHz
TX-DNH	4FSK	CH_{M3}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH_{H}	 30MHz~1GHz

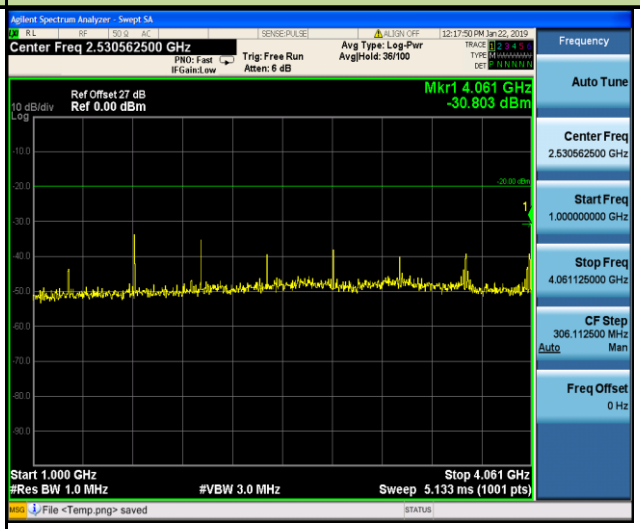
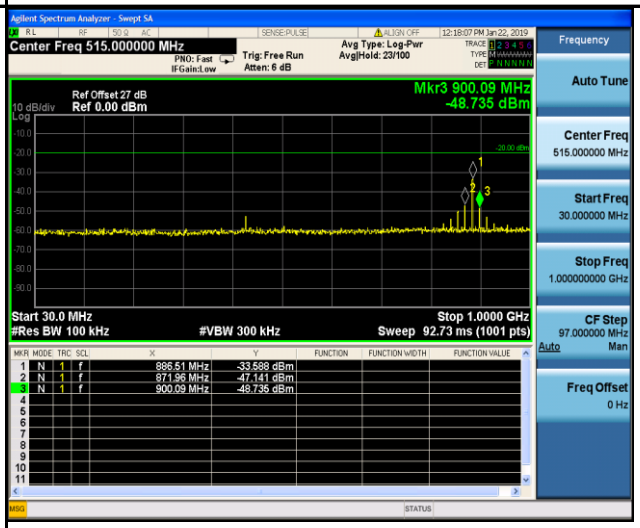
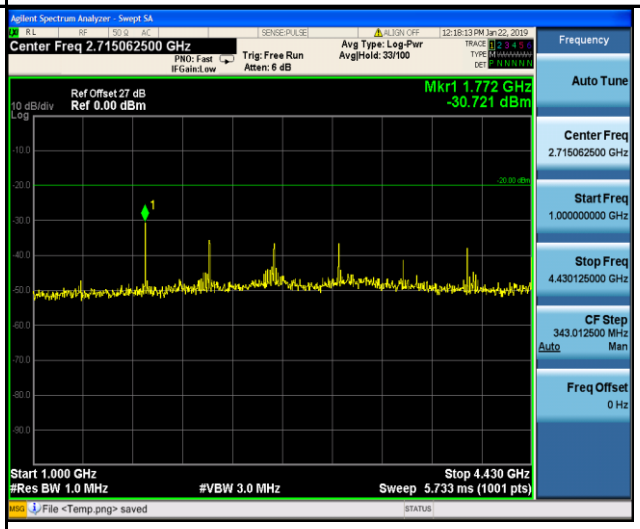
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH_H	 1GHz~10th Harmonic
TX-ANH	FM	CH_L	 30MHz~1GHz
TX-ANH	FM	CH_L	 1GHz~10th Harmonic

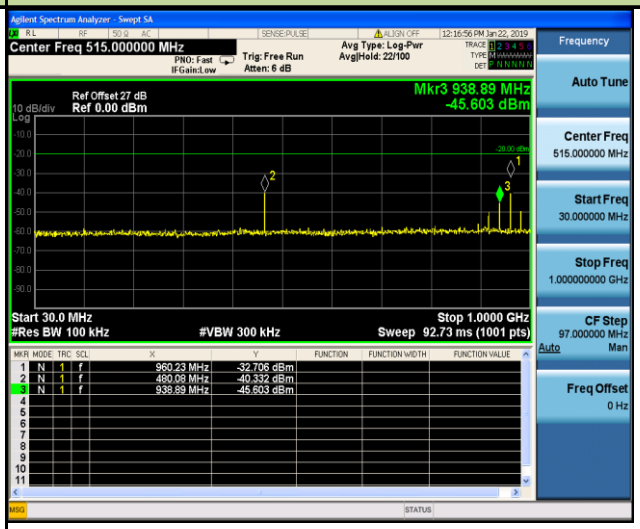
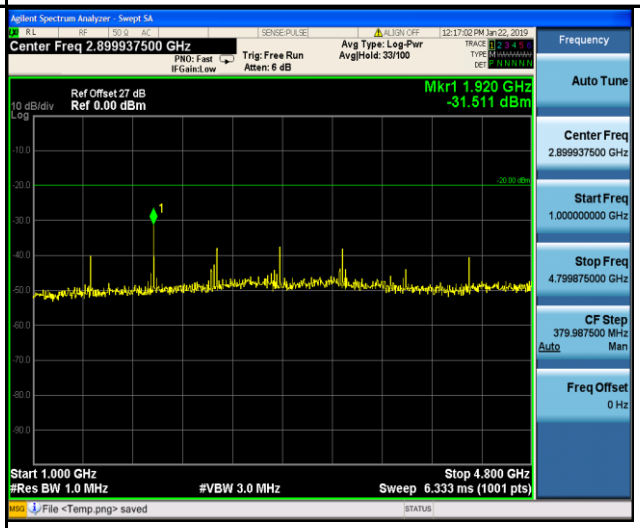
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH_{M1}	 30MHz~1GHz
TX-ANH	FM	CH_{M1}	 1GHz~10th Harmonic
TX-ANH	FM	CH_{M2}	 30MHz~1GHz

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH_{M2}	 1GHz~10th Harmonic
TX-ANH	FM	CH_{M3}	 30MHz~1GHz
TX-ANH	FM	CH_{M3}	 1GHz~10th Harmonic

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH$_H$	 30MHz~1GHz
TX-ANH	FM	CH$_H$	 1GHz~10th Harmonic

----End of Report----

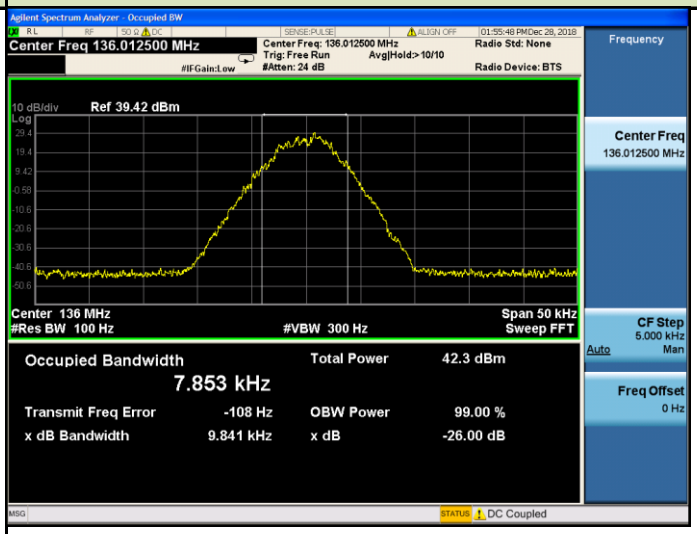
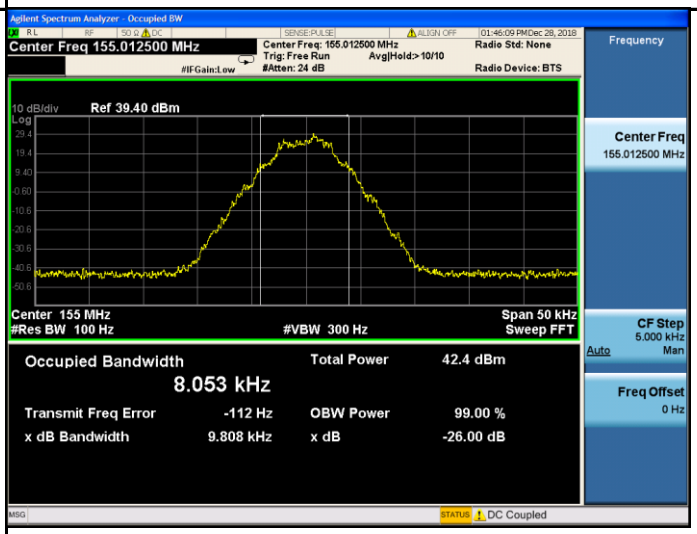
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH_L	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH_{M2}	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNH	4FSK	CH_H	35.6	3.63	4.00	-9.2	±20	PASS
TX-DNL	4FSK	CH_L	29.8	0.95	1.00	-4.5	±20	PASS
TX-DNL	4FSK	CH_{M2}	29.9	0.98	1.00	-2.3	±20	PASS
TX-DNL	4FSK	CH_H	29.7	0.93	1.00	-6.7	±20	PASS
TX-ANH	FM	CH_L	35.5	3.55	4.00	-11.3	±20	PASS
TX-ANH	FM	CH_{M2}	35.9	3.89	4.00	-2.7	±20	PASS
TX-ANH	FM	CH_H	35.8	3.80	4.00	-5.0	±20	PASS
TX-ANL	FM	CH_L	29.7	0.93	1.00	-6.7	±20	PASS
TX-ANL	FM	CH_{M2}	29.9	0.98	1.00	-2.3	±20	PASS
TX-ANL	FM	CH_H	29.6	0.91	1.00	-8.8	±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	7.853	9.841	≤11.25	PASS
TX-DNH	4FSK	CH_{M2}	8.053	9.808	≤11.25	PASS
TX-DNH	4FSK	CH_H	7.969	9.834	≤11.25	PASS
TX-DNL	4FSK	CH_L	7.851	9.934	≤11.25	PASS
TX-DNL	4FSK	CH_{M2}	8.010	10.380	≤11.25	PASS
TX-DNL	4FSK	CH_H	7.833	9.845	≤11.25	PASS
TX-ANH	FM	CH_L	9.996	10.170	≤11.25	PASS
TX-ANH	FM	CH_{M2}	9.997	10.170	≤11.25	PASS
TX-ANH	FM	CH_H	9.997	10.170	≤11.25	PASS
TX-ANL	FM	CH_L	9.991	10.170	≤11.25	PASS
TX-ANL	FM	CH_{M2}	9.996	10.170	≤11.25	PASS
TX-ANL	FM	CH_H	9.997	10.170	≤11.25	PASS

Appendix B:Occupied Bandwidth

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