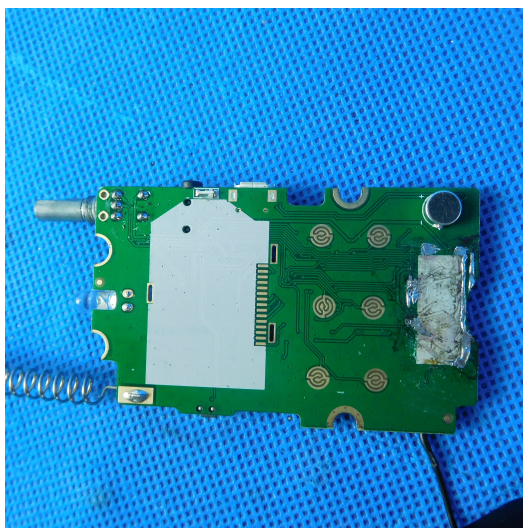




8 APPENDIX REPORT

**Appendix A: Carrier Output Power(ERP)**

Test Mode	Modulation Type	Test Channel	Measured power (dBm)	Measured power (W)	Limit(W)	Result
TX-FRS	FM	CH _{M1}	29.13	0.82	≤1	PASS
TX-FRS	FM	CH _{M2}	26.98	0.50	≤0.5	PASS
TX-FRS	FM	CH _{M3}	29.07	0.81	≤1	PASS

**Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth**

Test Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-FRS	FM	CH _{M1}	5.201	10.119	≤12.5	PASS
TX-FRS	FM	CH _{M2}	5.204	10.119	≤12.5	PASS
TX-FRS	FM	CH _{M3}	<u>5.212</u>	10.119	≤12.5	PASS

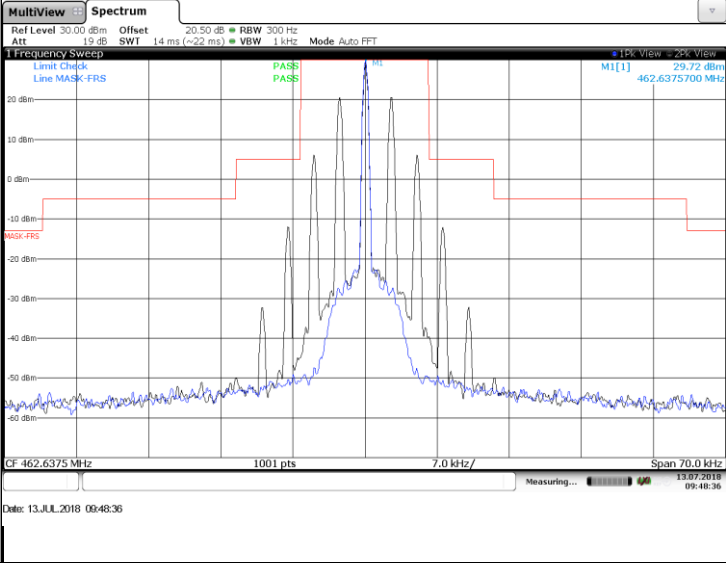
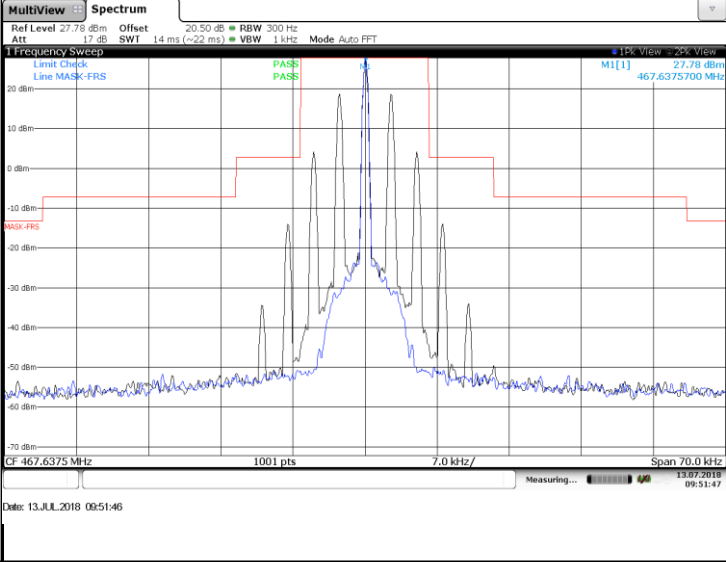
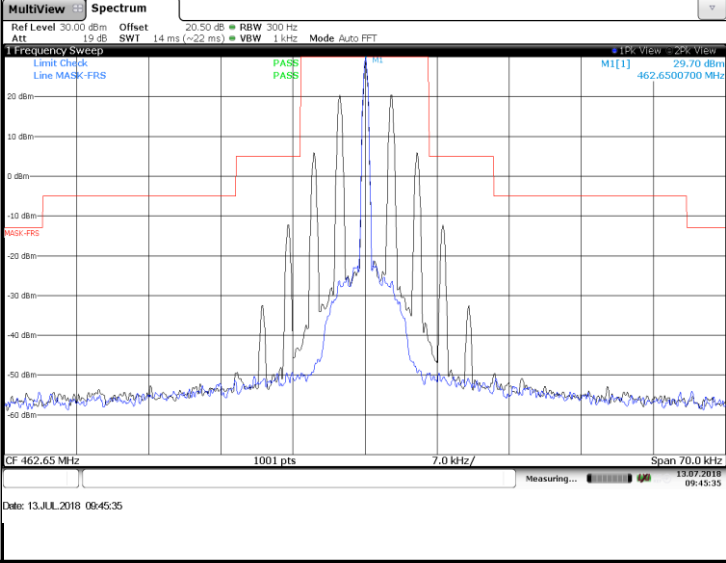


Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 462.637500 MHz Ref 33.00 dBm Occupied Bandwidth 5.201 kHz Total Power 29.1 dBm Transmit Freq Error 76 Hz OBW Power 99.00 % x dB Bandwidth 10.12 kHz x dB -26.00 dB
TX-FRS	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 467.637500 MHz Ref 31.07 dBm Occupied Bandwidth 5.204 kHz Total Power 27.2 dBm Transmit Freq Error 78 Hz OBW Power 99.00 % x dB Bandwidth 10.12 kHz x dB -26.00 dB
TX-FRS	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 462.650000 MHz Ref 32.97 dBm Occupied Bandwidth 5.213 kHz Total Power 29.2 dBm Transmit Freq Error 74 Hz OBW Power 99.00 % x dB Bandwidth 10.12 kHz x dB -26.00 dB



Appendix C:Emission Mask

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-FRS	FM	CH _{M1}	
TX-FRS	FM	CH _{M2}	
TX-FRS	FM	CH _{M3}	

**Appendix D:Modulation Limit**

Test Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak Frequency Deviation (Hz)				Limit (kHz)	Result
				300	1004	1500	2500		
TX-FRS	FM	CH _{M2}	-20	0.06	0.181	0.266	0.416	2.5	PASS
TX-FRS	FM	CH _{M2}	-15	0.082	0.304	0.447	0.731	2.5	PASS
TX-FRS	FM	CH _{M2}	-10	0.115	0.505	0.768	1.278	2.5	PASS
TX-FRS	FM	CH _{M2}	-5	0.184	0.877	1.355	1.744	2.5	PASS
TX-FRS	FM	CH _{M2}	0	0.302	1.513	1.771	1.841	2.5	PASS
TX-FRS	FM	CH _{M2}	5	0.504	1.828	1.871	1.877	2.5	PASS
TX-FRS	FM	CH _{M2}	10	0.879	2.009	1.909	1.897	2.5	PASS
TX-FRS	FM	CH _{M2}	15	1.525	2.07	1.926	1.916	2.5	PASS
TX-FRS	FM	CH _{M2}	20	1.95	2.096	1.944	1.952	2.5	PASS

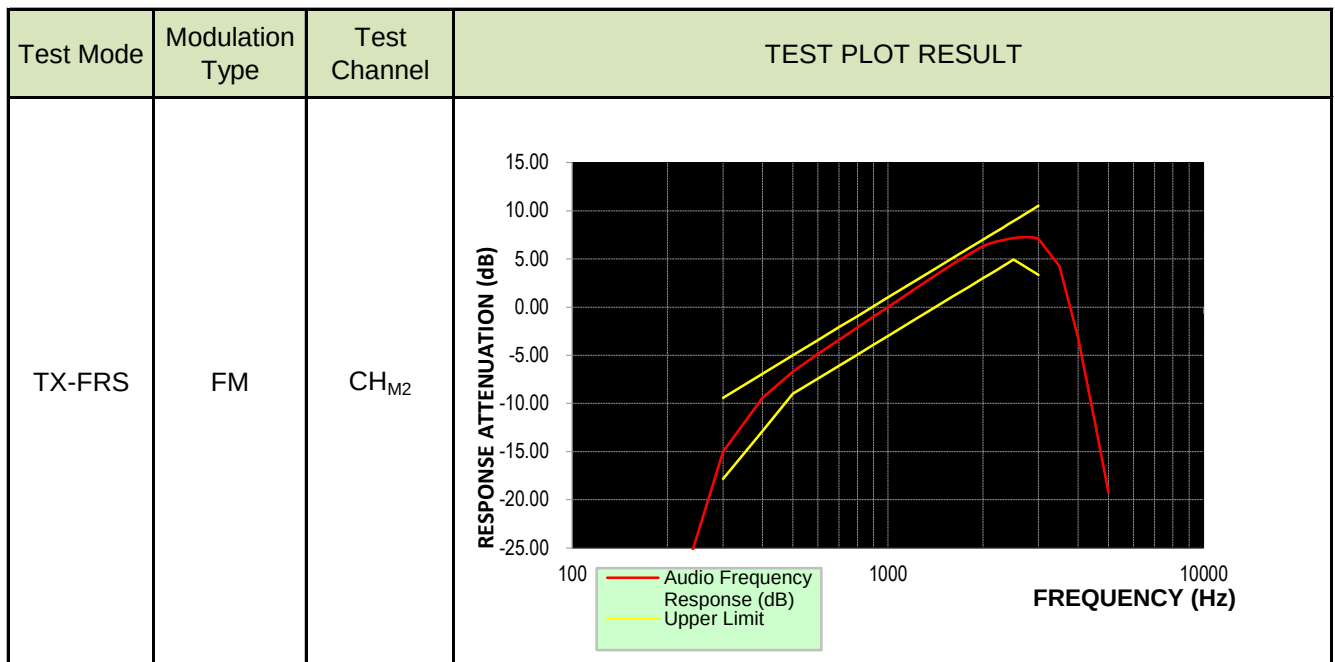


Appendix D:Modulation Limit

Test Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																												
TX-FRS	FM	CH _{M2}	<table><caption>Approximate data points from the Modulation Limit graph</caption><thead><tr><th>Modulation Level (dB)</th><th>Limit (kHz)</th><th>300 (kHz)</th><th>1004 (kHz)</th><th>1500 (kHz)</th><th>2500 (kHz)</th></tr></thead><tbody><tr><td>-20</td><td>2.5</td><td>0.2</td><td>0.2</td><td>0.2</td><td>0.2</td></tr><tr><td>-15</td><td>2.5</td><td>0.2</td><td>0.3</td><td>0.4</td><td>0.6</td></tr><tr><td>-10</td><td>2.5</td><td>0.2</td><td>0.4</td><td>0.7</td><td>1.1</td></tr><tr><td>-5</td><td>2.5</td><td>0.2</td><td>0.7</td><td>1.2</td><td>1.7</td></tr><tr><td>0</td><td>2.5</td><td>0.3</td><td>1.1</td><td>1.7</td><td>1.8</td></tr><tr><td>5</td><td>2.5</td><td>0.5</td><td>1.6</td><td>1.8</td><td>1.9</td></tr><tr><td>10</td><td>2.5</td><td>0.9</td><td>2.0</td><td>1.9</td><td>1.9</td></tr><tr><td>15</td><td>2.5</td><td>1.5</td><td>2.1</td><td>1.9</td><td>1.9</td></tr><tr><td>20</td><td>2.5</td><td>1.9</td><td>2.1</td><td>1.9</td><td>1.9</td></tr></tbody></table>	Modulation Level (dB)	Limit (kHz)	300 (kHz)	1004 (kHz)	1500 (kHz)	2500 (kHz)	-20	2.5	0.2	0.2	0.2	0.2	-15	2.5	0.2	0.3	0.4	0.6	-10	2.5	0.2	0.4	0.7	1.1	-5	2.5	0.2	0.7	1.2	1.7	0	2.5	0.3	1.1	1.7	1.8	5	2.5	0.5	1.6	1.8	1.9	10	2.5	0.9	2.0	1.9	1.9	15	2.5	1.5	2.1	1.9	1.9	20	2.5	1.9	2.1	1.9	1.9
Modulation Level (dB)	Limit (kHz)	300 (kHz)	1004 (kHz)	1500 (kHz)	2500 (kHz)																																																										
-20	2.5	0.2	0.2	0.2	0.2																																																										
-15	2.5	0.2	0.3	0.4	0.6																																																										
-10	2.5	0.2	0.4	0.7	1.1																																																										
-5	2.5	0.2	0.7	1.2	1.7																																																										
0	2.5	0.3	1.1	1.7	1.8																																																										
5	2.5	0.5	1.6	1.8	1.9																																																										
10	2.5	0.9	2.0	1.9	1.9																																																										
15	2.5	1.5	2.1	1.9	1.9																																																										
20	2.5	1.9	2.1	1.9	1.9																																																										

**Appendix E:Audio Frequency Response**

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-FRS	FM	CH _{M2}	100	-33.68			PASS
TX-FRS	FM	CH _{M2}	200	-33.71			PASS
TX-FRS	FM	CH _{M2}	300	-15.01	-17.84	-9.42	PASS
TX-FRS	FM	CH _{M2}	400	-9.41	-12.86	-6.93	PASS
TX-FRS	FM	CH _{M2}	500	-6.70	-9.00	-5.00	PASS
TX-FRS	FM	CH _{M2}	600	-4.88	-7.42	-3.42	PASS
TX-FRS	FM	CH _{M2}	700	-3.40	-6.09	-2.09	PASS
TX-FRS	FM	CH _{M2}	800	-2.11	-4.93	-0.93	PASS
TX-FRS	FM	CH _{M2}	900	-0.99	-3.91	0.09	PASS
TX-FRS	FM	CH _{M2}	1000	-0.01	-3.00	1.00	PASS
TX-FRS	FM	CH _{M2}	1200	1.76	-1.42	2.58	PASS
TX-FRS	FM	CH _{M2}	1400	3.21	-0.09	3.91	PASS
TX-FRS	FM	CH _{M2}	1600	4.44	1.07	5.07	PASS
TX-FRS	FM	CH _{M2}	1800	5.47	2.09	6.09	PASS
TX-FRS	FM	CH _{M2}	2000	6.34	3.00	7.00	PASS
TX-FRS	FM	CH _{M2}	2100	6.60	3.42	7.42	PASS
TX-FRS	FM	CH _{M2}	2200	6.80	3.83	7.83	PASS
TX-FRS	FM	CH _{M2}	2300	6.95	4.21	8.21	PASS
TX-FRS	FM	CH _{M2}	2400	7.06	4.58	8.58	PASS
TX-FRS	FM	CH _{M2}	2500	7.16	4.93	8.93	PASS
TX-FRS	FM	CH _{M2}	2600	7.22	4.59	9.27	PASS
TX-FRS	FM	CH _{M2}	2700	7.26	4.27	9.60	PASS
TX-FRS	FM	CH _{M2}	2800	7.26	3.95	9.91	PASS
TX-FRS	FM	CH _{M2}	2900	7.22	3.65	10.22	PASS
TX-FRS	FM	CH _{M2}	3000	7.10	3.35	10.51	PASS
TX-FRS	FM	CH _{M2}	3500	4.23			PASS
TX-FRS	FM	CH _{M2}	4000	-3.16			PASS
TX-FRS	FM	CH _{M2}	4500	-11.50			PASS
TX-FRS	FM	CH _{M2}	5000	-19.25			PASS

**Appendix E:Aduio Frequency Response**

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

**Appendix F:Frequency Stability Test & Temperature**

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _{M1}	CH _{M2}	CH _{M3}		
TX-FRS	FM	V _N	-30	0.221	0.241	0.226	±2.5	PASS
TX-FRS	FM	V _N	-20	0.221	0.225	0.228	±2.5	PASS
TX-FRS	FM	V _N	-10	0.224	<u>0.244</u>	0.215	±2.5	PASS
TX-FRS	FM	V _N	0	0.221	0.237	0.211	±2.5	PASS
TX-FRS	FM	V _N	10	0.222	0.232	0.222	±2.5	PASS
TX-FRS	FM	V _N	20	0.212	0.223	0.207	±2.5	PASS
TX-FRS	FM	V _N	30	0.214	0.243	0.221	±2.5	PASS
TX-FRS	FM	V _N	40	0.223	0.237	0.214	±2.5	PASS
TX-FRS	FM	V _N	55	0.221	0.242	0.210	±2.5	PASS

**Appendix G:Frequency Stability Test & Voltage**

Test Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _{M1}	CH _{M2}	CH _{M3}		
TX-FRS	FM	V _N	T _N	0.212	0.223	0.207	±2.5	PASS
TX-FRS	FM	V _L	T _N	0.215	0.227	0.207	±2.5	PASS
TX-FRS	FM	V _H	T _N	0.222	<u>0.236</u>	0.217	±2.5	PASS

----End of Report----