



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 37 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.80 dBm 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>37.18</td> <td>(-1.56)</td> <td>-100.0</td> <td>31.16</td> <td>(-7.57)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-32.56</td> <td>(-6.40)</td> <td>-11.60 k</td> <td>-32.04</td> <td>(-6.97)</td> <td>11.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.25</td> <td>(-17.25)</td> <td>-19.85 k</td> <td>-36.29</td> <td>(-16.29)</td> <td>19.70 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.18	(-1.56)	-100.0	31.16	(-7.57)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.56	(-6.40)	-11.60 k	-32.04	(-6.97)	11.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.25	(-17.25)	-19.85 k	-36.29	(-16.29)	19.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz</p> <p>Ref Offset 37 dB Ref 42.0 dBm</p> <p>Total Power Ref 35.98 dBm 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.94</td> <td>(-1.57)</td> <td>-50.00</td> <td>35.60</td> <td>(-1.91)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.58</td> <td>(-5.38)</td> <td>-12.40 k</td> <td>-37.87</td> <td>(-5.03)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.05</td> <td>(-18.05)</td> <td>-15.05 k</td> <td>-38.45</td> <td>(-18.45)</td> <td>15.00 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.94	(-1.57)	-50.00	35.60	(-1.91)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.58	(-5.38)	-12.40 k	-37.87	(-5.03)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.05	(-18.05)	-15.05 k	-38.45	(-18.45)	15.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 37 dB Ref: 42.0 dBm</p> <p>Center: 406.1 MHz Span: 120 kHz</p> <p>Total Power Ref: 36.01 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.95</td> <td>(-1.78)</td> <td>-50.00</td> <td>34.17</td> <td>(-3.55)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.83</td> <td>(7.12)</td> <td>-12.50 k</td> <td>-42.98</td> <td>(9.99)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.35</td> <td>(-16.35)</td> <td>-14.35 k</td> <td>-36.96</td> <td>(-16.96)</td> <td>12.80 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.95	(-1.78)	-50.00	34.17	(-3.55)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.83	(7.12)	-12.50 k	-42.98	(9.99)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.35	(-16.35)	-14.35 k	-36.96	(-16.96)	12.80 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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TX-ANL	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 38 dB Ref 42.0 dBm</p> <p>Total Power Ref 37.51 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>36.93</td> <td>(-0.83)</td> <td>-50.00</td> <td>31.72</td> <td>(-6.04)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.39</td> <td>(-5.71)</td> <td>-12.50 k</td> <td>-38.86</td> <td>(-5.54)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.38</td> <td>(-16.38)</td> <td>-18.40 k</td> <td>-37.34</td> <td>(-17.34)</td> <td>18.25 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.93	(-0.83)	-50.00	31.72	(-6.04)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.39	(-5.71)	-12.50 k	-38.86	(-5.54)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.38	(-16.38)	-18.40 k	-37.34	(-17.34)	18.25 k	4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)	-	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer: Spectrum Emission Mask</p> <p>Center Freq: 469.987500 MHz Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 1.37 dB Ref: 41.0 dBm</p> <p>Center: 470 MHz Span: 120 kHz</p> <p>Total Power Ref: 35.43 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>33.80</td> <td>(-2.86)</td> <td>-50.00</td> <td>33.58</td> <td>(-3.07)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.67</td> <td>(-3.89)</td> <td>-12.50 k</td> <td>-37.72</td> <td>(-3.66)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.62</td> <td>(-16.62)</td> <td>-18.00 k</td> <td>-35.26</td> <td>(-15.26)</td> <td>12.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.80	(-2.86)	-50.00	33.58	(-3.07)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.67	(-3.89)	-12.50 k	-37.72	(-3.66)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.62	(-16.62)	-18.00 k	-35.26	(-15.26)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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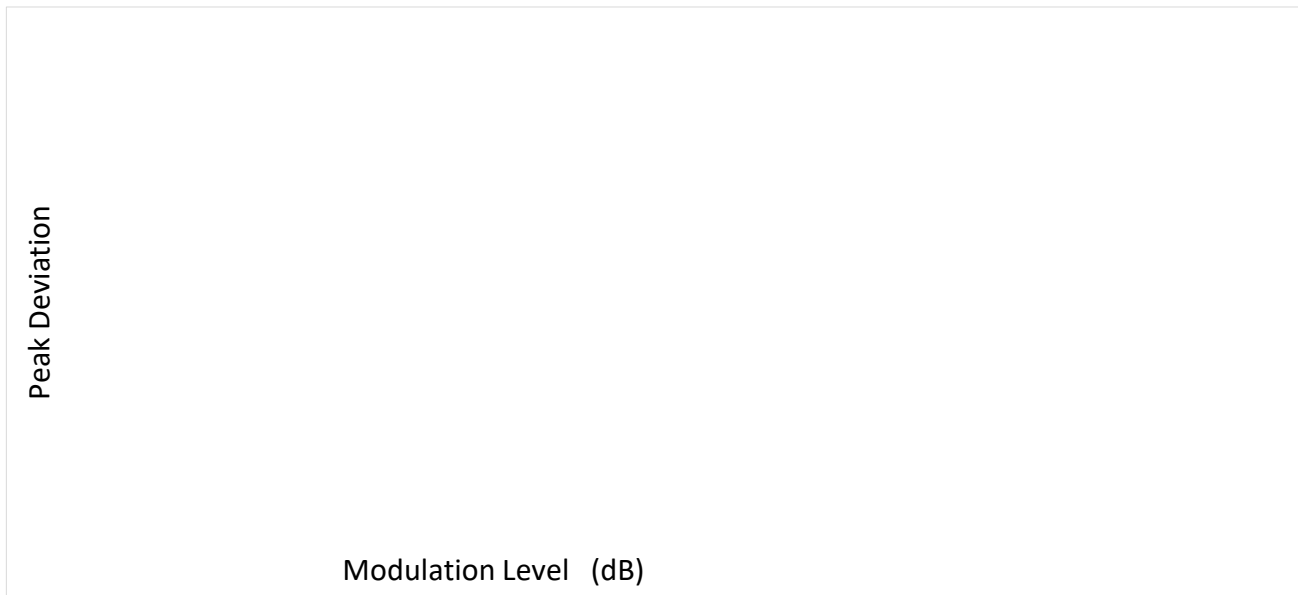
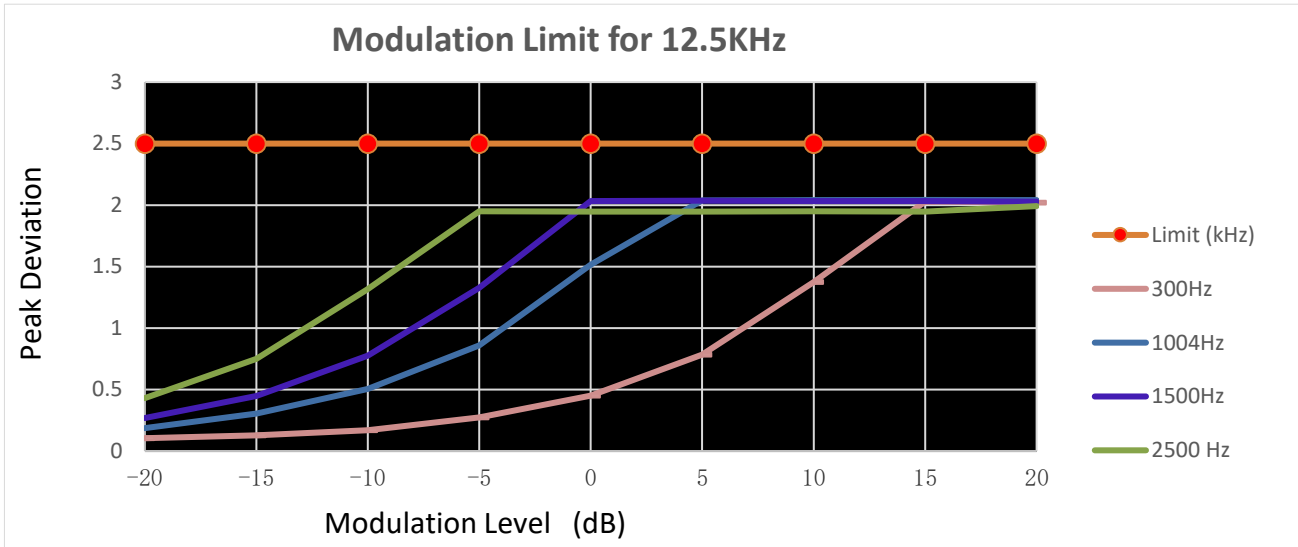
**Appendix D:Modulation Limit**

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	0.105	0.187	0.269	0.431	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.128	0.304	0.449	0.75	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.171	0.505	0.776	1.317	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.273	0.86	1.329	1.951	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.452	1.516	2.033	1.946	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.783	2.037	2.036	1.947	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.374	2.041	2.032	1.951	2.5	PASS
TX-ANH	FM	CH _{M2}	15	2.029	2.042	2.033	1.947	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.019	2.041	2.028	1.992	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



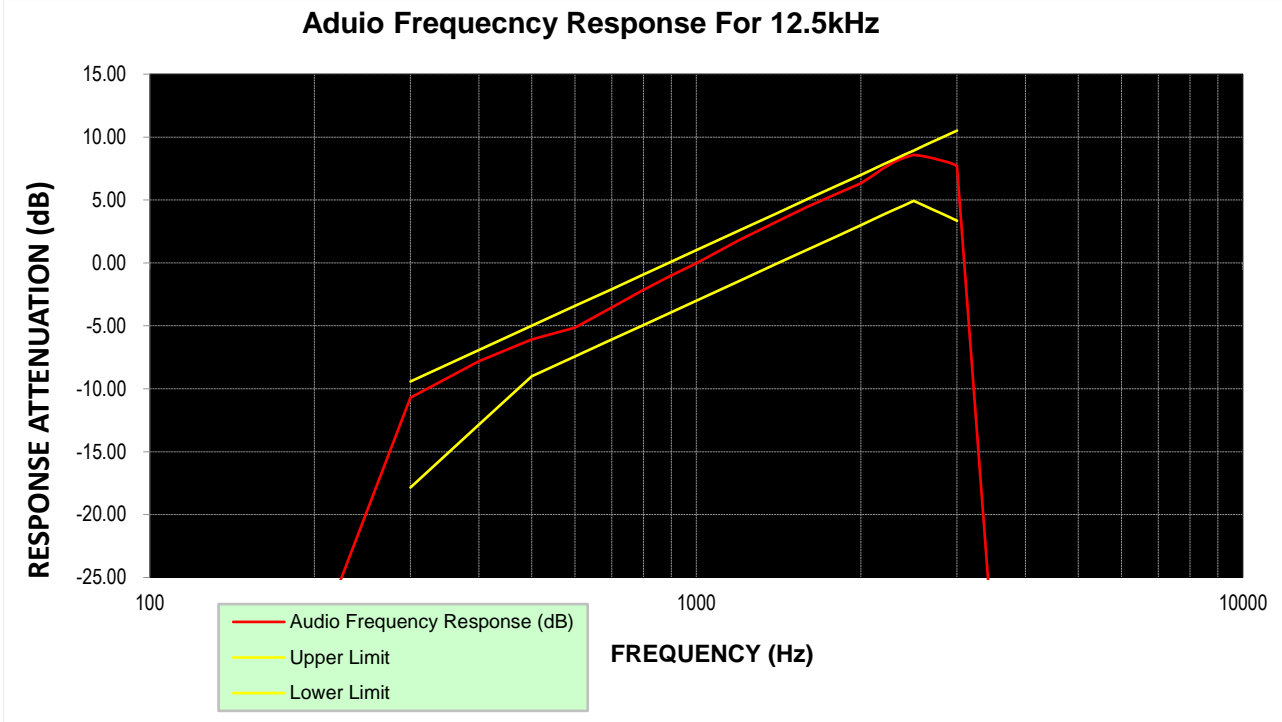
**Appendix E:Aduio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-29.45	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-30.66	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-10.72	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-7.82	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.08	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.14	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.55	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.15	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.00	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.04	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.82	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.26	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.47	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.45	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.34	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	6.91	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	7.52	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	8.00	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	8.36	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	8.58	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	8.49	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.35	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.17	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.97	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.73	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-31.13	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-31.36	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-30.71	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-30.28	-	-	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	-0.164	-0.101	-0.173	-0.169	-0.171	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.172	-0.097	-0.182	-0.172	-0.179	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.162	-0.102	-0.178	-0.178	-0.167	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.166	-0.106	-0.177	-0.174	-0.170	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.163	-0.100	-0.180	-0.175	-0.166	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.157	-0.097	-0.166	-0.162	-0.163	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.164	-0.102	-0.171	-0.164	-0.174	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.158	-0.104	-0.171	-0.173	-0.171	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.173	-0.101	-0.176	-0.168	-0.176	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.134	-0.175	-0.135	-0.172	-0.154	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.147	-0.180	-0.133	-0.174	-0.157	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.140	-0.172	-0.133	-0.168	-0.160	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.143	-0.177	-0.139	-0.170	-0.157	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.136	-0.171	-0.134	-0.173	-0.152	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.134	-0.168	-0.130	-0.164	-0.149	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.141	-0.180	-0.142	-0.177	-0.150	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.140	-0.173	-0.142	-0.167	-0.155	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.146	-0.180	-0.140	-0.165	-0.150	±5.0	PASS
TX-ANH	FM	V _N	-30	-0.171	-0.182	-0.176	-0.180	-0.180	±5.0	PASS
TX-ANH	FM	V _N	-20	-0.168	-0.175	-0.176	-0.170	-0.171	±5.0	PASS
TX-ANH	FM	V _N	-10	-0.177	-0.179	-0.175	-0.165	-0.181	±5.0	PASS
TX-ANH	FM	V _N	0	-0.173	-0.167	-0.168	-0.174	-0.180	±5.0	PASS
TX-ANH	FM	V _N	10	-0.173	-0.176	-0.182	-0.171	-0.178	±5.0	PASS
TX-ANH	FM	V _N	20	-0.166	-0.166	-0.166	-0.164	-0.168	±5.0	PASS
TX-ANH	FM	V _N	30	-0.175	-0.176	-0.174	-0.164	-0.174	±5.0	PASS
TX-ANH	FM	V _N	40	-0.169	-0.167	-0.181	-0.165	-0.180	±5.0	PASS
TX-ANH	FM	V _N	55	-0.180	-0.178	-0.172	-0.164	-0.174	±5.0	PASS
TX-ANL	FM	V _N	-30	-0.181	-0.166	-0.174	-0.172	-0.167	±5.0	PASS
TX-ANL	FM	V _N	-20	-0.175	-0.175	-0.170	-0.168	-0.168	±5.0	PASS
TX-ANL	FM	V _N	-10	-0.169	-0.166	-0.177	-0.176	-0.175	±5.0	PASS
TX-ANL	FM	V _N	0	-0.173	-0.175	-0.167	-0.166	-0.181	±5.0	PASS
TX-ANL	FM	V _N	10	-0.176	-0.164	-0.169	-0.167	-0.175	±5.0	PASS
TX-ANL	FM	V _N	20	-0.166	-0.164	-0.166	-0.164	-0.165	±5.0	PASS
TX-ANL	FM	V _N	30	-0.168	-0.169	-0.166	-0.176	-0.177	±5.0	PASS
TX-ANL	FM	V _N	40	-0.174	-0.178	-0.182	-0.167	-0.172	±5.0	PASS
TX-ANL	FM	V _N	55	-0.174	-0.165	-0.173	-0.166	-0.180	±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	-0.157	<u>-0.097</u>	-0.166	-0.162	-0.163	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.160	-0.099	-0.168	-0.164	-0.166	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.161	-0.102	-0.174	-0.164	-0.165	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.134	-0.168	<u>-0.130</u>	-0.164	-0.149	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.135	-0.171	-0.131	-0.166	-0.151	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.142	-0.172	-0.132	-0.170	-0.152	±5.0	PASS
TX-ANH	FM	V _N	T _N	-0.166	-0.166	-0.166	-0.164	-0.168	±5.0	PASS
TX-ANH	FM	V _L	T _N	-0.168	-0.167	-0.167	-0.164	-0.169	±5.0	PASS
TX-ANH	FM	V _H	T _N	-0.176	-0.168	-0.176	-0.170	-0.170	±5.0	PASS
TX-ANL	FM	V _N	T _N	-0.166	-0.164	-0.166	-0.164	-0.165	±5.0	PASS
TX-ANL	FM	V _L	T _N	-0.167	-0.166	-0.169	-0.165	-0.165	±5.0	PASS
TX-ANL	FM	V _H	T _N	-0.170	-0.167	-0.168	-0.167	-0.167	±5.0	PASS

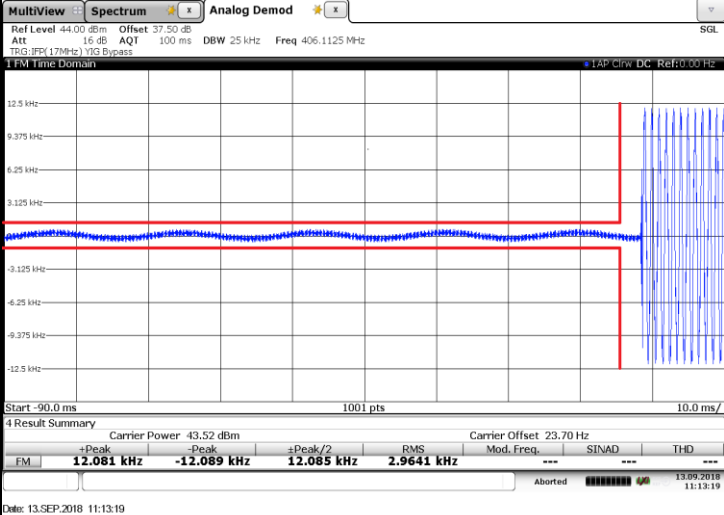


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-DNH	4FSK	CH _{M2}	<p>Tek 预览</p> <p>Ch1 100mV M 10.0ms A Ch1 0.00 V</p> <p>OFF~ON</p>																				
TX-DNH	4FSK	CH _{M2}	<p>Tek 预览</p> <p>Ch1 100mV M 10.0ms A Ch1 0.00 V</p> <p>ON-OFF</p>																				
TX-ANH	FM	CH _{M2}	<p>Multiview Spectrum Analog Demod</p> <p>Ref Level -44.00 dBm Offset 37.50 dB Att 16 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz SGL</p> <p>TRIG:FSK (170Hz) VEG Bypass</p> <p>FM Time Domain</p> <p>Start -10.0 ms 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>Carrier Power</th> <th>Carrier Offset</th> <th>+Peak</th> <th>-Peak</th> <th>±Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>43.56 dBm</td> <td>-168.04 Hz</td> <td>12.451 kHz</td> <td>-12.109 kHz</td> <td>12.28 kHz</td> <td>8.6702 kHz</td> <td>1.0273 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Aborted 13.09.2018 11:11:30</p> <p>Date: 13.SEP.2018 11:11:30</p> <p>OFF~ON</p>		Carrier Power	Carrier Offset	+Peak	-Peak	±Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	43.56 dBm	-168.04 Hz	12.451 kHz	-12.109 kHz	12.28 kHz	8.6702 kHz	1.0273 kHz	---	---
	Carrier Power	Carrier Offset	+Peak	-Peak	±Peak/2	RMS	Mod. Freq.	SINAD	THD														
FM	43.56 dBm	-168.04 Hz	12.451 kHz	-12.109 kHz	12.28 kHz	8.6702 kHz	1.0273 kHz	---	---														



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-ANH	FM	CH _{M2}	 <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>Carrier Power</th> <th>Carrier Offset</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>43.52 dBm</td> <td>23.70 Hz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Carrier Power: 43.52 dBm Carrier Offset: 23.70 Hz</p> <p>12.081 kHz -12.089 kHz 12.085 kHz 2.9641 kHz</p> <p>Date: 13.SEP.2018 11:13:19</p> <p style="text-align: center;">ON-OFF</p>		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	43.52 dBm	23.70 Hz	---	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	43.52 dBm	23.70 Hz	---	---	---										

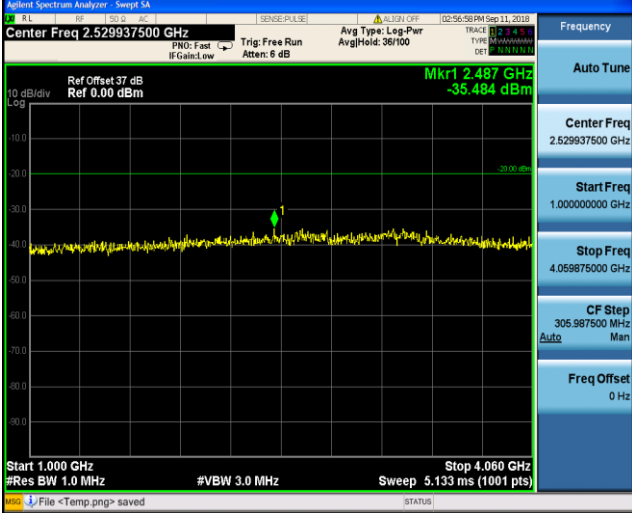
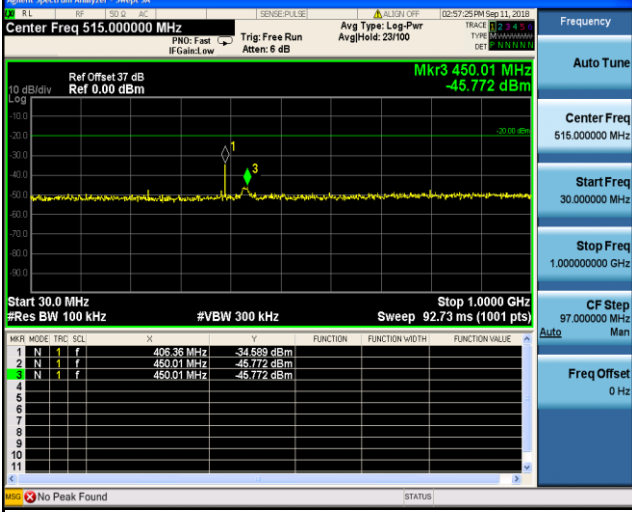
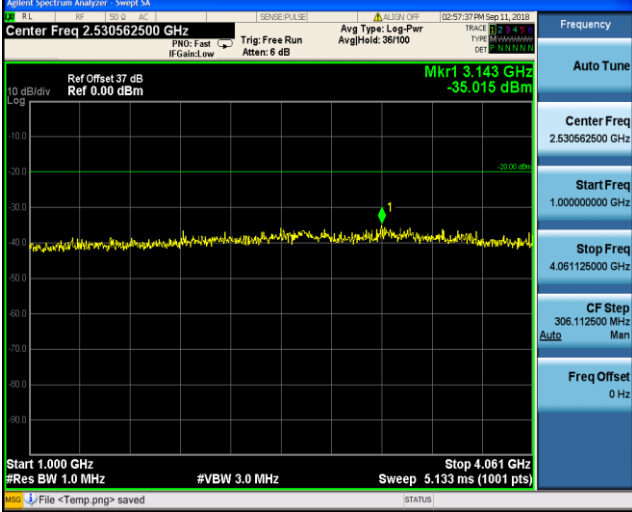


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHL	<p>30MHz~1GHz</p>
TX-DNH	4FSK	CHL	<p>1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH _{M1}	<p>30MHz~1GHz</p>



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH _{M2}	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CH _{M2}	 <p style="text-align: center;">1GHz~10th Harmonic</p>


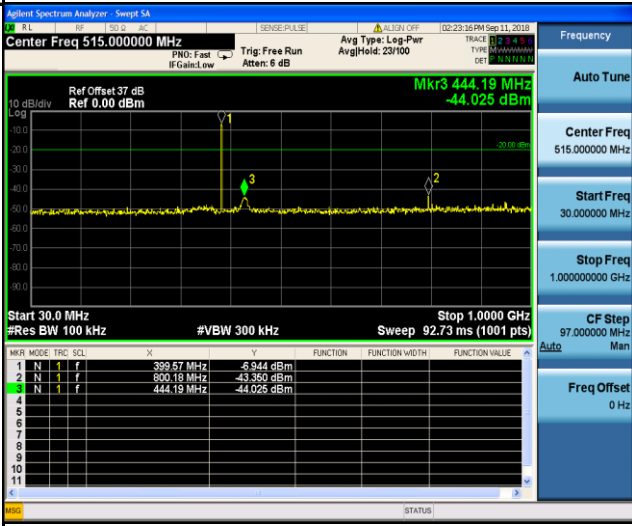
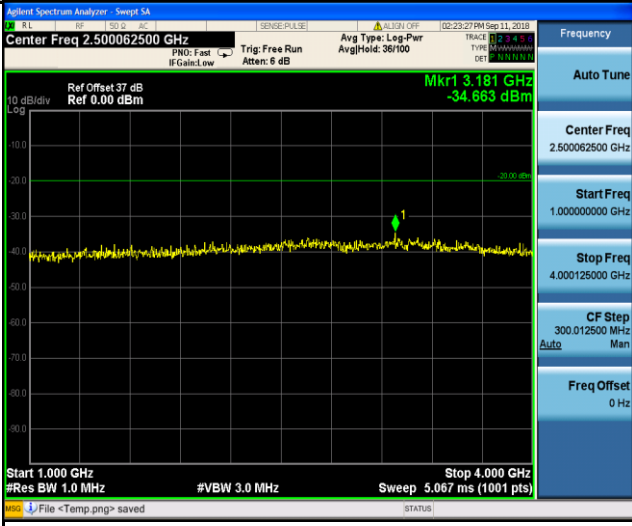


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 37 dB Ref 0.00 dBm Mkr3 875.84 MHz -38.154 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>438.37 MHz</td> <td>-28.433 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>875.84 MHz</td> <td>-38.164 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>875.84 MHz</td> <td>-38.154 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	438.37 MHz	-28.433 dBm				2	N	1	f	875.84 MHz	-38.164 dBm				3	N	1	f	875.84 MHz	-38.154 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
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3	N	1	f	875.84 MHz	-38.154 dBm																																		
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 37 dB Ref 0.00 dBm Mkr1 3.234 GHz -34.872 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.380 GHz Sweep 5.667 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 37 dB Ref 0.00 dBm Mkr3 470.38 MHz -28.025 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>69.77 MHz</td> <td>-11.000 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>519.02 MHz</td> <td>-21.697 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>470.38 MHz</td> <td>-28.025 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	69.77 MHz	-11.000 dBm				2	N	1	f	519.02 MHz	-21.697 dBm				3	N	1	f	470.38 MHz	-28.025 dBm			
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _H	 <p style="text-align: center;">1GHz~10th Harmonic</p>																																				
TX-ANH	FM	CH _L	 <table border="1" data-bbox="596 1243 1133 1400"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>399.57 MHz</td> <td>-6.944 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>500.19 MHz</td> <td>-43.869 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>444.19 MHz</td> <td>-44.025 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz	-6.944 dBm				2	N	1	f	500.19 MHz	-43.869 dBm				3	N	1	f	444.19 MHz	-44.025 dBm			
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 37 dB, Ref 0.00 dBm Mkr3 442.25 MHz -41.126 dBm Start 30.0 MHz, #Res BW 100 kHz, #VBW 300 kHz, Stop 1.0000 GHz, Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>405.86 MHz</td> <td>-15.847 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-42.665 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>442.25 MHz</td> <td>-41.126 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	405.86 MHz	-15.847 dBm				2	N	1	f	811.82 MHz	-42.665 dBm				3	N	1	f	442.25 MHz	-41.126 dBm			
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3	N	1	f	442.25 MHz	-41.126 dBm																																		
TX-ANH	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 37 dB, Ref 0.00 dBm Mkr1 3.166 GHz -35.203 dBm Start 1.000 GHz, #Res BW 1.0 MHz, #VBW 3.0 MHz, Stop 4.060 GHz, Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 37 dB, Ref 0.00 dBm Mkr3 447.10 MHz -43.727 dBm Start 30.0 MHz, #Res BW 100 kHz, #VBW 300 kHz, Stop 1.0000 GHz, Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>405.86 MHz</td> <td>-15.975 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td>-41.891 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>447.10 MHz</td> <td>-43.727 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	405.86 MHz	-15.975 dBm				2	N	1	f	811.82 MHz	-41.891 dBm				3	N	1	f	447.10 MHz	-43.727 dBm			
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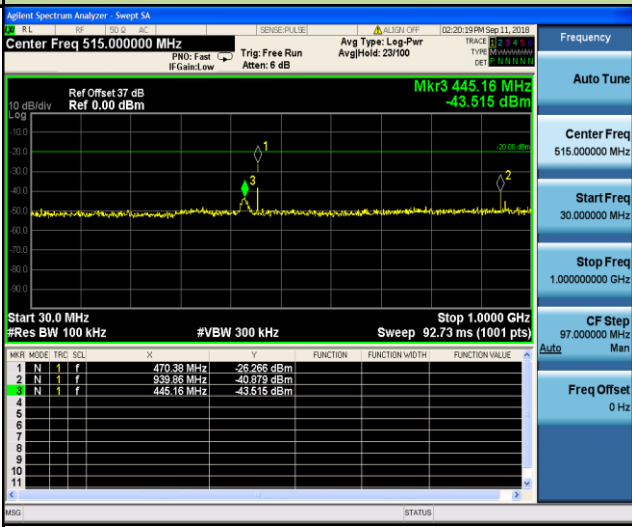



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 37 dB Ref 0.00 dBm Mkr1 2.580 GHz -35.330 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 37 dB Ref 0.00 dBm Mkr3 875.84 MHz -38.583 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>438.37 MHz</td> <td>-26.584 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>875.84 MHz</td> <td>-38.583 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>875.84 MHz</td> <td>-38.583 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	438.37 MHz	-26.584 dBm				2	N	1	f	875.84 MHz	-38.583 dBm				3	N	1	f	875.84 MHz	-38.583 dBm			
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TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.690062500 GHz Ref Offset 37 dB Ref 0.00 dBm Mkr1 3.265 GHz -35.634 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.667 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _H	 <p style="text-align: center;">30MHz~1GHz</p>
TX-ANH	FM	CH _H	 <p style="text-align: center;">1GHz~10th Harmonic</p>

----End of Report----