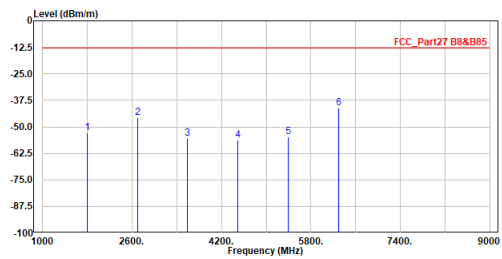
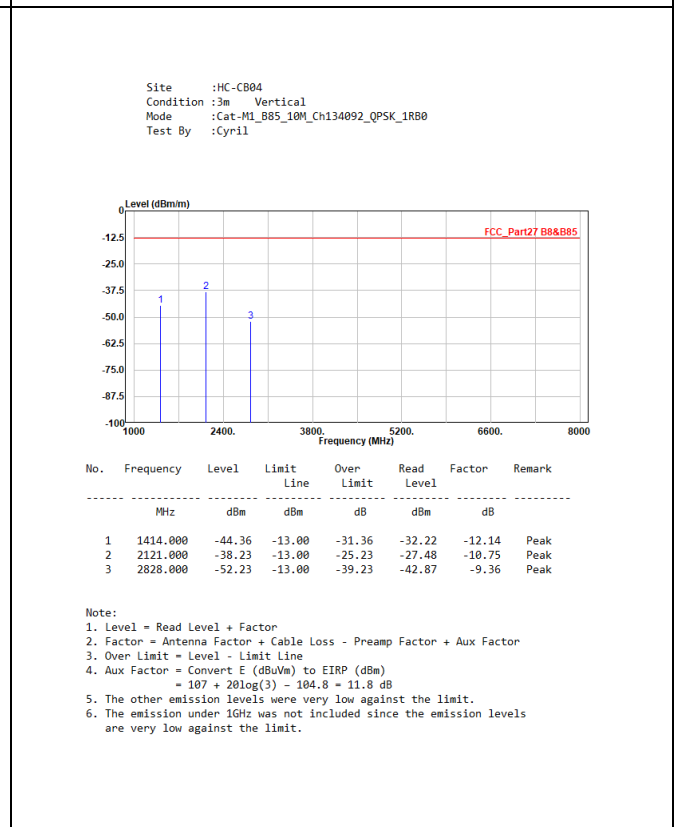
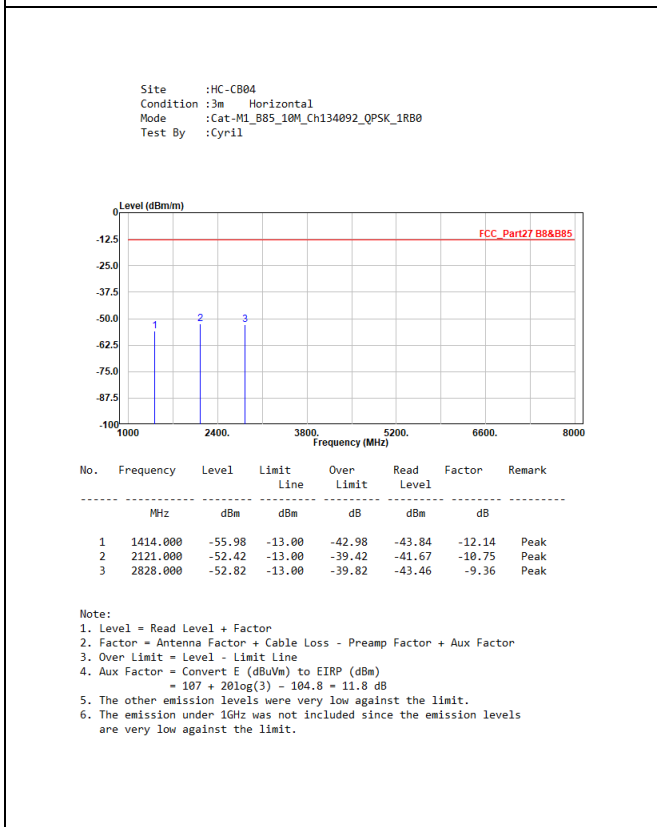
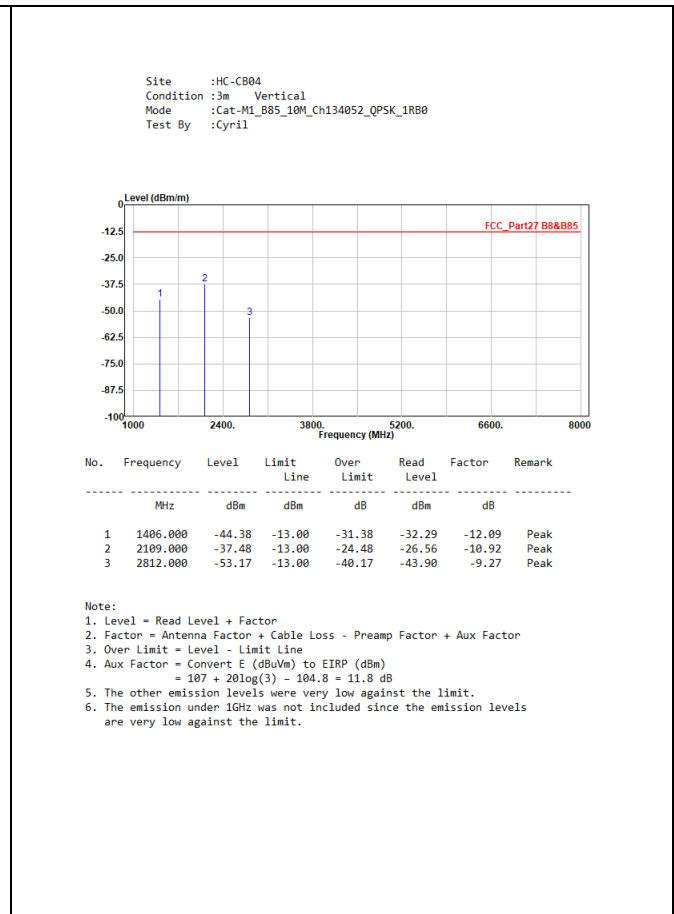
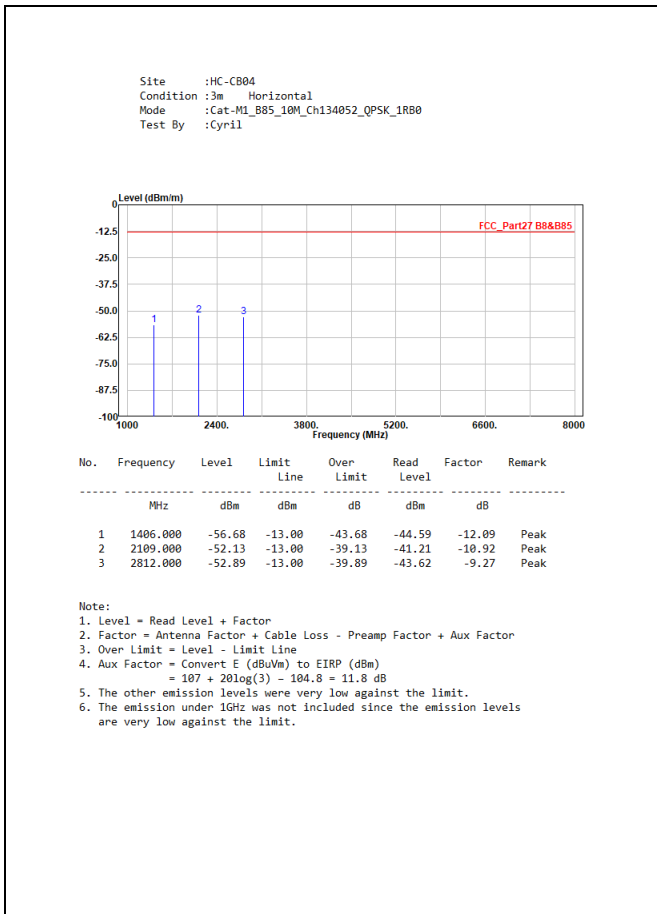


## 6.5. Test Result of Radiated Spurious Emission

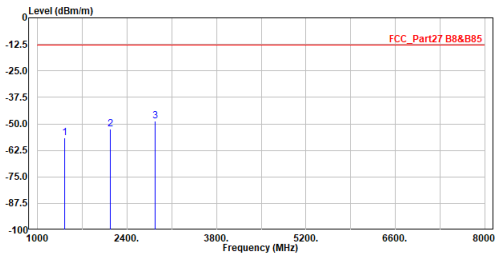
### Mode 1: Cat-M1 Band 8 (FCC only)

<p>Site :HC-CB04                  Condition :3m Horizontal                  Mode :Cat-M1_B8_3M_Ch21640_QPSK_1RB0                  Test By :Cyril</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th>dBm</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1798.000</td> <td>-52.83</td> <td>-13.00</td> <td>-39.83</td> <td>-40.04</td> <td>-12.79</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>2697.000</td> <td>-45.63</td> <td>-13.00</td> <td>-32.63</td> <td>-35.71</td> <td>-9.92</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>3596.000</td> <td>-55.64</td> <td>-13.00</td> <td>-42.64</td> <td>-47.70</td> <td>-7.94</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>4495.000</td> <td>-56.33</td> <td>-13.00</td> <td>-43.33</td> <td>-50.22</td> <td>-6.11</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>5394.000</td> <td>-54.86</td> <td>-13.00</td> <td>-41.86</td> <td>-50.09</td> <td>-4.77</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>6293.000</td> <td>-41.06</td> <td>-13.00</td> <td>-28.06</td> <td>-38.43</td> <td>-2.63</td> <td>Peak</td> </tr> </tbody> </table> <p>Note:                      1. Level = Read Level + Factor                      2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor                      3. Over Limit = Level - Limit Line                      4. Aux Factor = Convert E (dBuVn) to EIRP (dBm)                          = 107 + 20log(3) - 104.8 = 11.8 dB                      5. The other emission levels were very low against the limit.                      6. The emission under 1GHz was not included since the emission levels are very low against the limit.</p>	No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBm	dBm	dB	dBm	dB		1	1798.000	-52.83	-13.00	-39.83	-40.04	-12.79	Peak	2	2697.000	-45.63	-13.00	-32.63	-35.71	-9.92	Peak	3	3596.000	-55.64	-13.00	-42.64	-47.70	-7.94	Peak	4	4495.000	-56.33	-13.00	-43.33	-50.22	-6.11	Peak	5	5394.000	-54.86	-13.00	-41.86	-50.09	-4.77	Peak	6	6293.000	-41.06	-13.00	-28.06	-38.43	-2.63	Peak	<p>Site :HC-CB04                  Condition :3m Vertical                  Mode :Cat-M1_B8_3M_Ch21640_QPSK_1RB0                  Test By :Cyril</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th>dBm</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1798.000</td> <td>-47.73</td> <td>-13.00</td> <td>-34.73</td> <td>-34.94</td> <td>-12.79</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>2697.000</td> <td>-45.46</td> <td>-13.00</td> <td>-32.46</td> <td>-35.54</td> <td>-9.92</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>3596.000</td> <td>-53.31</td> <td>-13.00</td> <td>-40.31</td> <td>-45.37</td> <td>-7.94</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>4495.000</td> <td>-55.73</td> <td>-13.00</td> <td>-42.73</td> <td>-49.62</td> <td>-6.11</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>5394.000</td> <td>-46.86</td> <td>-13.00</td> <td>-33.86</td> <td>-42.09</td> <td>-4.77</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>6293.000</td> <td>-38.95</td> <td>-13.00</td> <td>-25.95</td> <td>-36.32</td> <td>-2.63</td> <td>Peak</td> </tr> </tbody> </table> <p>Note:                      1. Level = Read Level + Factor                      2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor                      3. Over Limit = Level - Limit Line                      4. Aux Factor = Convert E (dBuVn) to EIRP (dBm)                          = 107 + 20log(3) - 104.8 = 11.8 dB                      5. The other emission levels were very low against the limit.                      6. The emission under 1GHz was not included since the emission levels are very low against the limit.</p>	No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBm	dBm	dB	dBm	dB		1	1798.000	-47.73	-13.00	-34.73	-34.94	-12.79	Peak	2	2697.000	-45.46	-13.00	-32.46	-35.54	-9.92	Peak	3	3596.000	-53.31	-13.00	-40.31	-45.37	-7.94	Peak	4	4495.000	-55.73	-13.00	-42.73	-49.62	-6.11	Peak	5	5394.000	-46.86	-13.00	-33.86	-42.09	-4.77	Peak	6	6293.000	-38.95	-13.00	-25.95	-36.32	-2.63	Peak
No.	Frequency	Level	Limit	Over	Read	Factor	Remark																																																																																																																										
	MHz	dBm	dBm	dB	dBm	dB																																																																																																																											
1	1798.000	-52.83	-13.00	-39.83	-40.04	-12.79	Peak																																																																																																																										
2	2697.000	-45.63	-13.00	-32.63	-35.71	-9.92	Peak																																																																																																																										
3	3596.000	-55.64	-13.00	-42.64	-47.70	-7.94	Peak																																																																																																																										
4	4495.000	-56.33	-13.00	-43.33	-50.22	-6.11	Peak																																																																																																																										
5	5394.000	-54.86	-13.00	-41.86	-50.09	-4.77	Peak																																																																																																																										
6	6293.000	-41.06	-13.00	-28.06	-38.43	-2.63	Peak																																																																																																																										
No.	Frequency	Level	Limit	Over	Read	Factor	Remark																																																																																																																										
	MHz	dBm	dBm	dB	dBm	dB																																																																																																																											
1	1798.000	-47.73	-13.00	-34.73	-34.94	-12.79	Peak																																																																																																																										
2	2697.000	-45.46	-13.00	-32.46	-35.54	-9.92	Peak																																																																																																																										
3	3596.000	-53.31	-13.00	-40.31	-45.37	-7.94	Peak																																																																																																																										
4	4495.000	-55.73	-13.00	-42.73	-49.62	-6.11	Peak																																																																																																																										
5	5394.000	-46.86	-13.00	-33.86	-42.09	-4.77	Peak																																																																																																																										
6	6293.000	-38.95	-13.00	-25.95	-36.32	-2.63	Peak																																																																																																																										

**Mode 2: Cat-M1 Band 85**



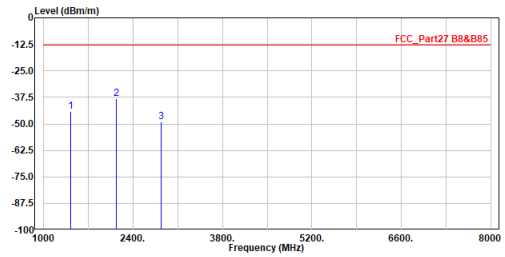
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :Cat-M1\_B85\_10M\_Ch134132\_QPSK\_1RB0  
 Test By :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1422.000	-56.55	-13.00	-43.55	-44.35	-12.20	Peak
2	2133.000	-52.46	-13.00	-39.46	-41.90	-10.56	Peak
3	2844.000	-48.84	-13.00	-35.84	-39.39	-9.45	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

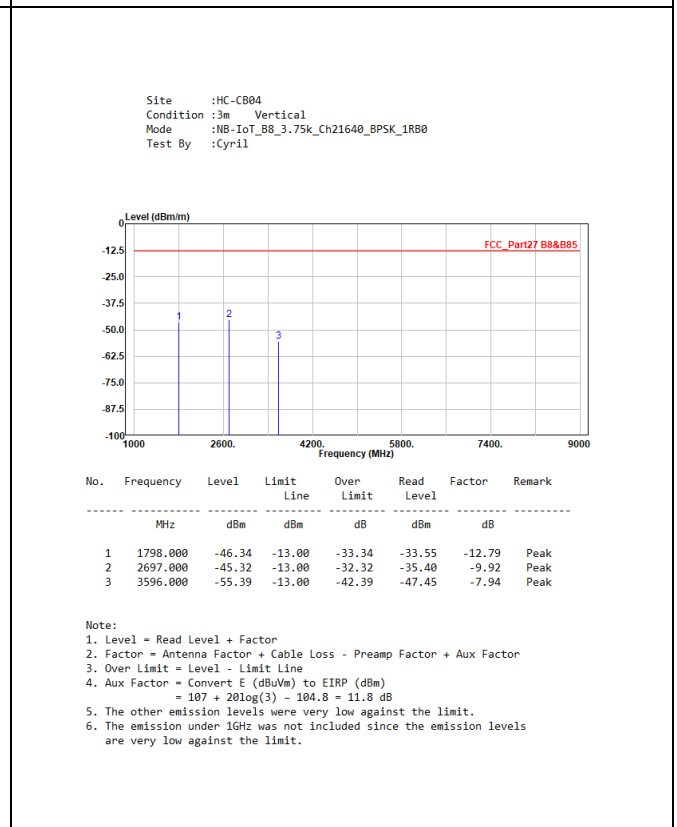
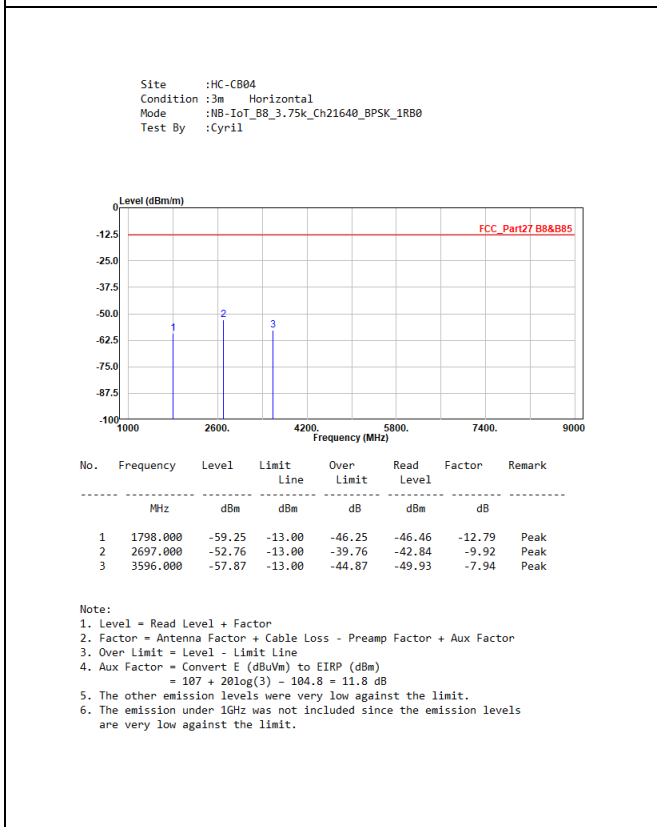
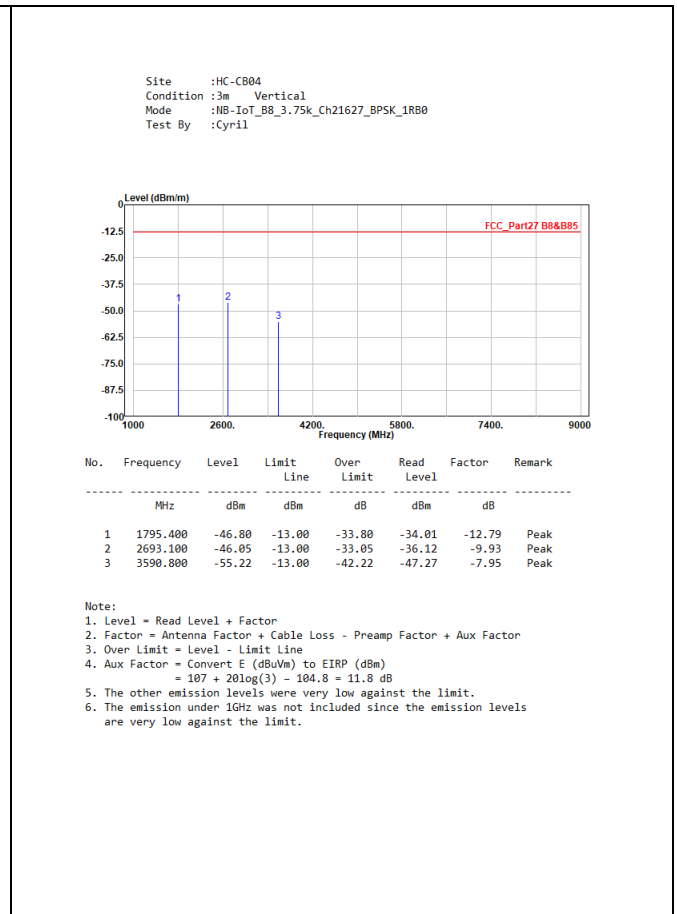
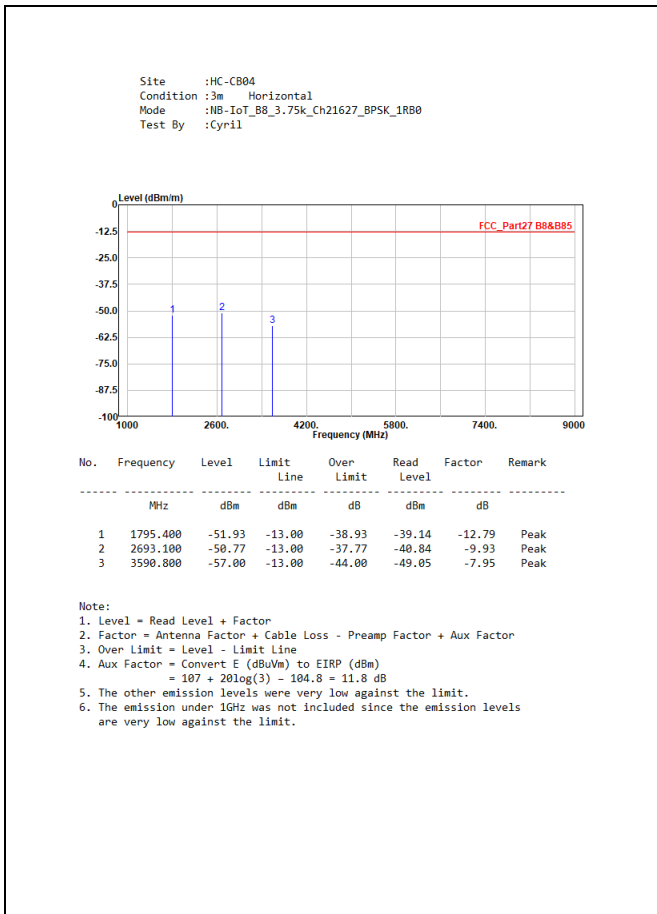
Site :HC-CB04  
 Condition :3m Vertical  
 Mode :Cat-M1\_B85\_10M\_Ch134132\_QPSK\_1RB0  
 Test By :Cyril



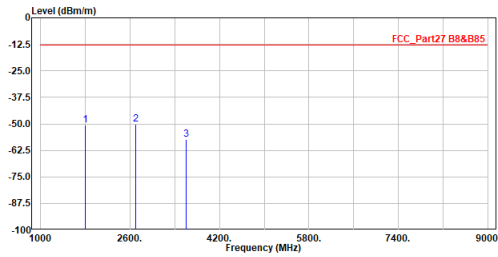
No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1422.000	-44.32	-13.00	-31.32	-32.12	-12.20	Peak
2	2133.000	-38.21	-13.00	-25.21	-27.65	-10.56	Peak
3	2844.000	-49.16	-13.00	-36.16	-39.71	-9.45	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 3: NB-IoT Band 8 (FCC only)**



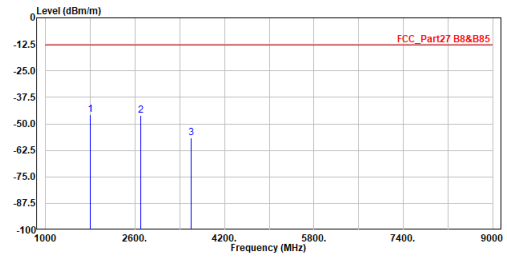
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :HB-IoT\_BB\_3.75k\_Ch21653\_BPSK\_1RB0  
 Test By :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1800.600	-50.63	-13.00	-37.63	-37.84	-12.79	Peak
2	2700.900	-50.30	-13.00	-37.30	-40.38	-9.92	Peak
3	3601.200	-57.50	-13.00	-44.50	-49.58	-7.92	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :HB-IoT\_BB\_3.75k\_Ch21653\_BPSK\_1RB0  
 Test By :Cyril

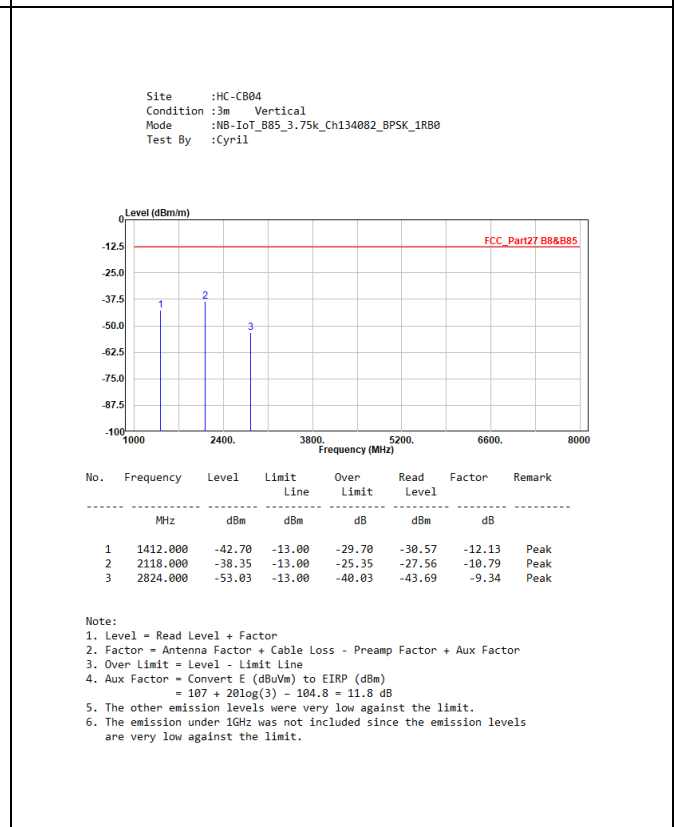
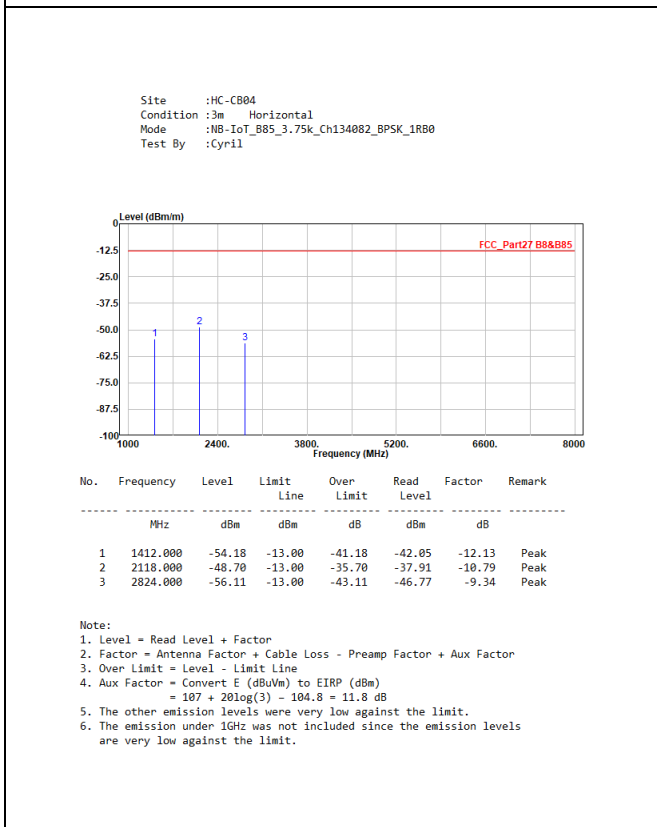
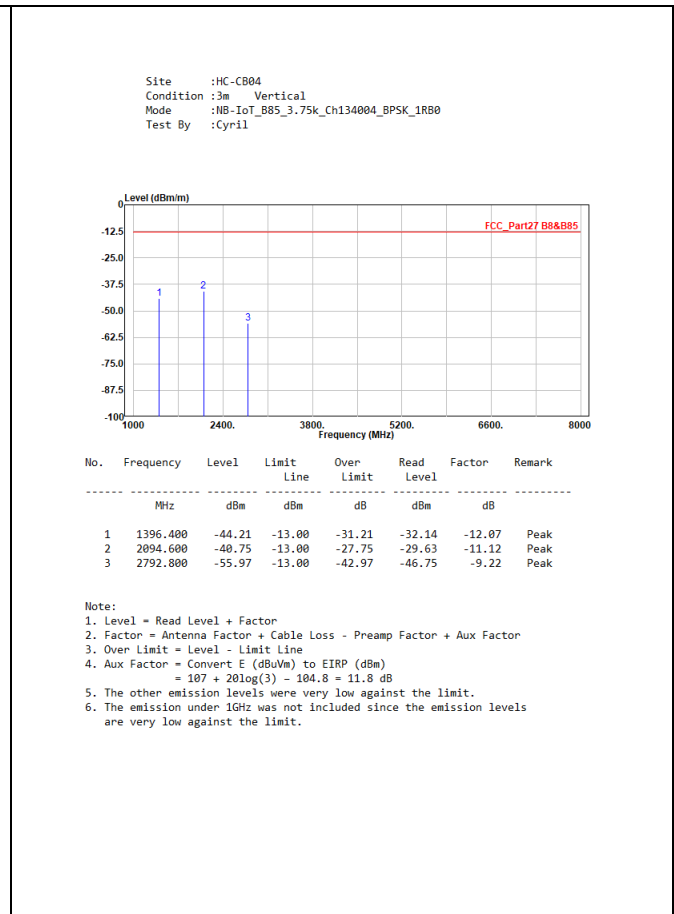
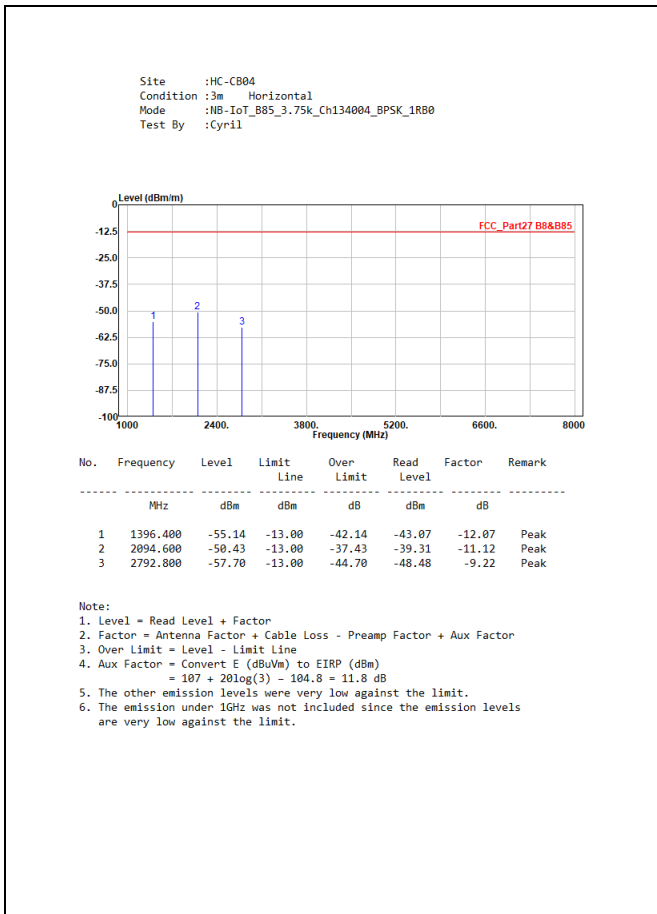


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1800.600	-45.73	-13.00	-32.73	-32.94	-12.79	Peak
2	2700.900	-46.02	-13.00	-33.02	-36.10	-9.92	Peak
3	3601.200	-56.45	-13.00	-43.45	-48.53	-7.92	Peak

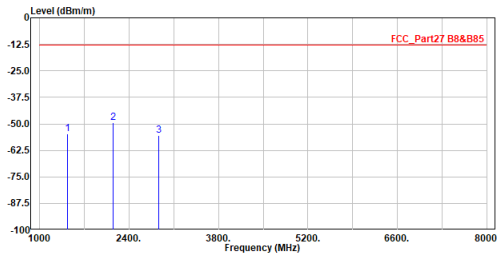
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.



**Mode 4: NB-IoT Band 85**



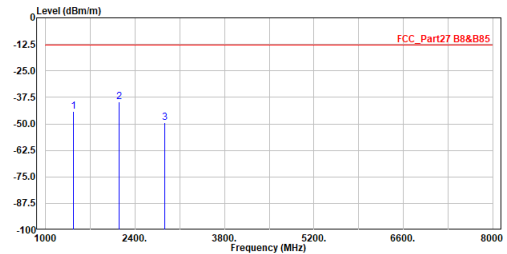
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B85\_3.75k\_Ch134180\_BPSK\_1RB0  
 Test By :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1431.600	-54.55	-13.00	-41.55	-42.28	-12.27	Peak
2	2147.400	-49.31	-13.00	-36.31	-38.96	-10.35	Peak
3	2863.200	-55.34	-13.00	-42.34	-45.88	-9.46	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B85\_3.75k\_Ch134180\_BPSK\_1RB0  
 Test By :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1431.600	-44.24	-13.00	-31.24	-31.97	-12.27	Peak
2	2147.400	-39.63	-13.00	-26.63	-29.28	-10.35	Peak
3	2863.200	-49.26	-13.00	-36.26	-39.80	-9.46	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 5: Cat-M1 Band 2**

Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :Cat-M1\_B2\_CH18900  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3760.000	-58.87	-13.00	-45.87	-51.51	-7.36	Peak
2	5640.000	-60.19	-13.00	-47.19	-56.03	-4.16	Peak
3	7520.000	-56.40	-13.00	-43.40	-58.02	1.62	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

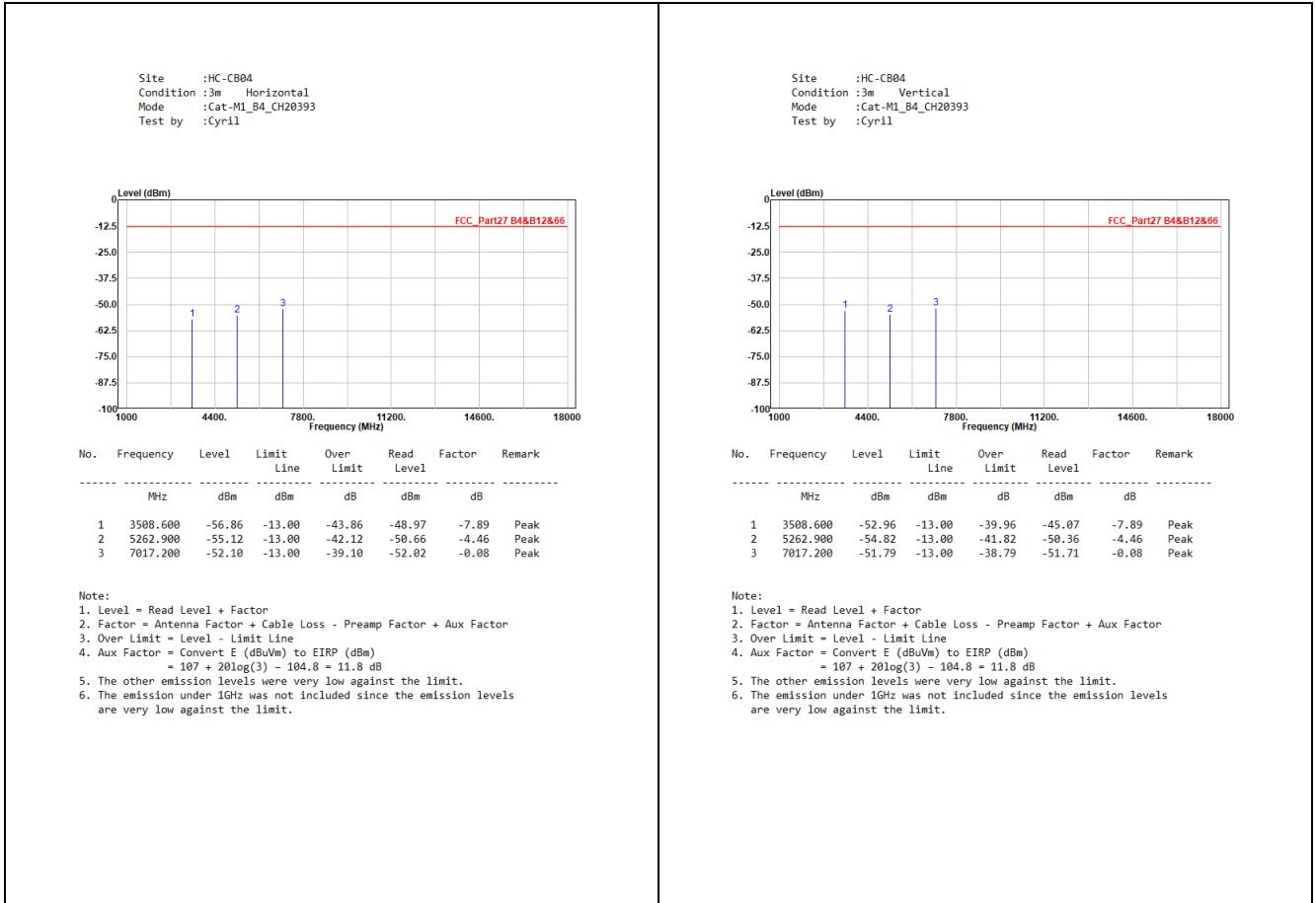
Site :HC-CB04  
 Condition :3m Vertical  
 Mode :Cat-M1\_B2\_CH18900  
 Test by :Cyril



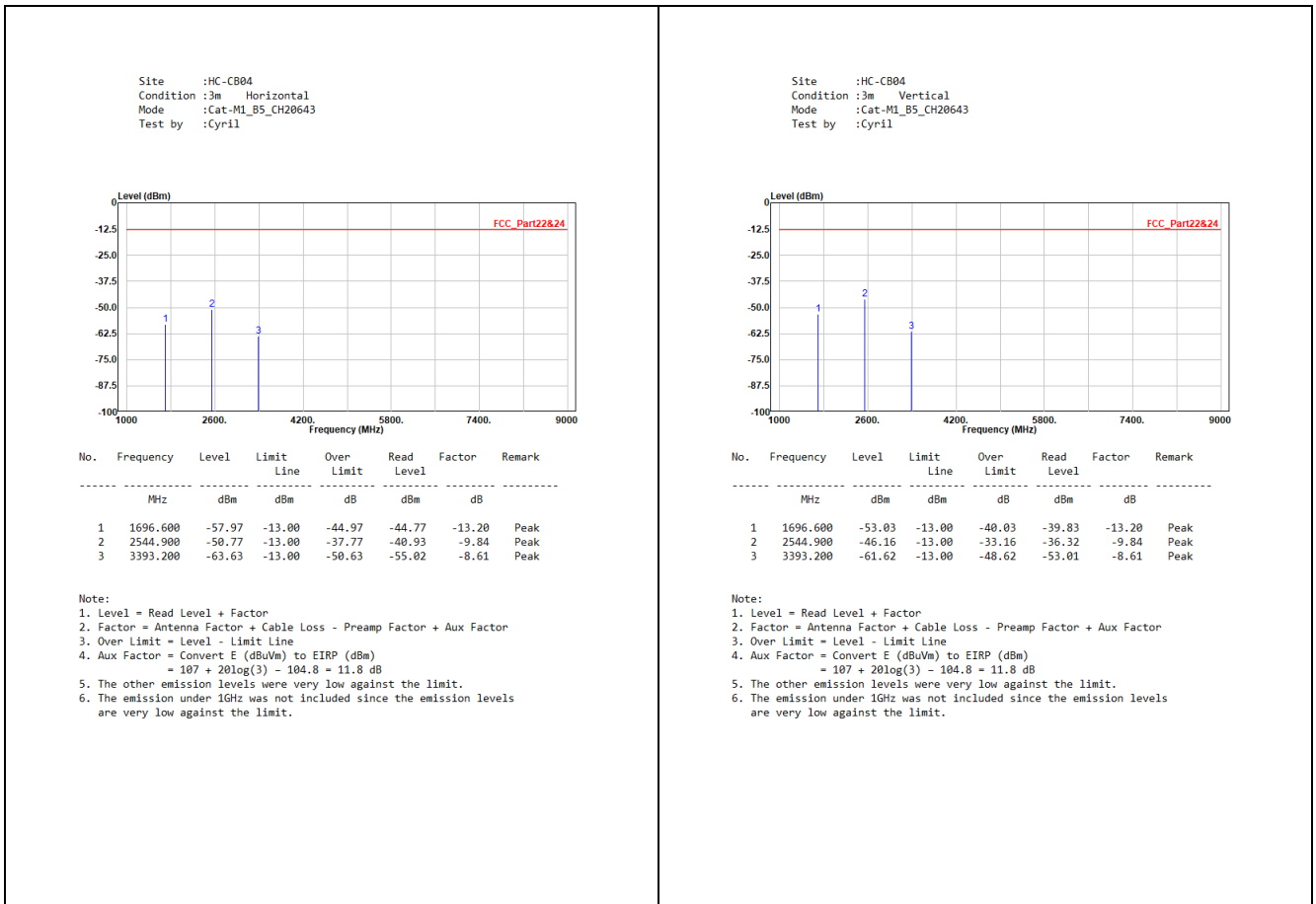
No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3760.000	-62.52	-13.00	-49.52	-56.96	-5.56	Peak
2	5640.000	-60.03	-13.00	-47.03	-61.00	0.97	Peak
3	7520.000	-56.25	-13.00	-43.25	-63.65	7.40	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 6: Cat-M1 Band 4**



**Mode 7: Cat-M1 Band 5**



**Mode 8: Cat-M1 Band 12**

Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :Cat-M1\_B12\_CH23095  
 Test by :Cyril

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1415.000	-59.55	-13.00	-46.55	-47.34	-12.21	Peak
2	2122.500	-54.34	-13.00	-41.34	-43.70	-10.64	Peak
3	2830.000	-58.17	-13.00	-45.17	-49.41	-8.76	Peak

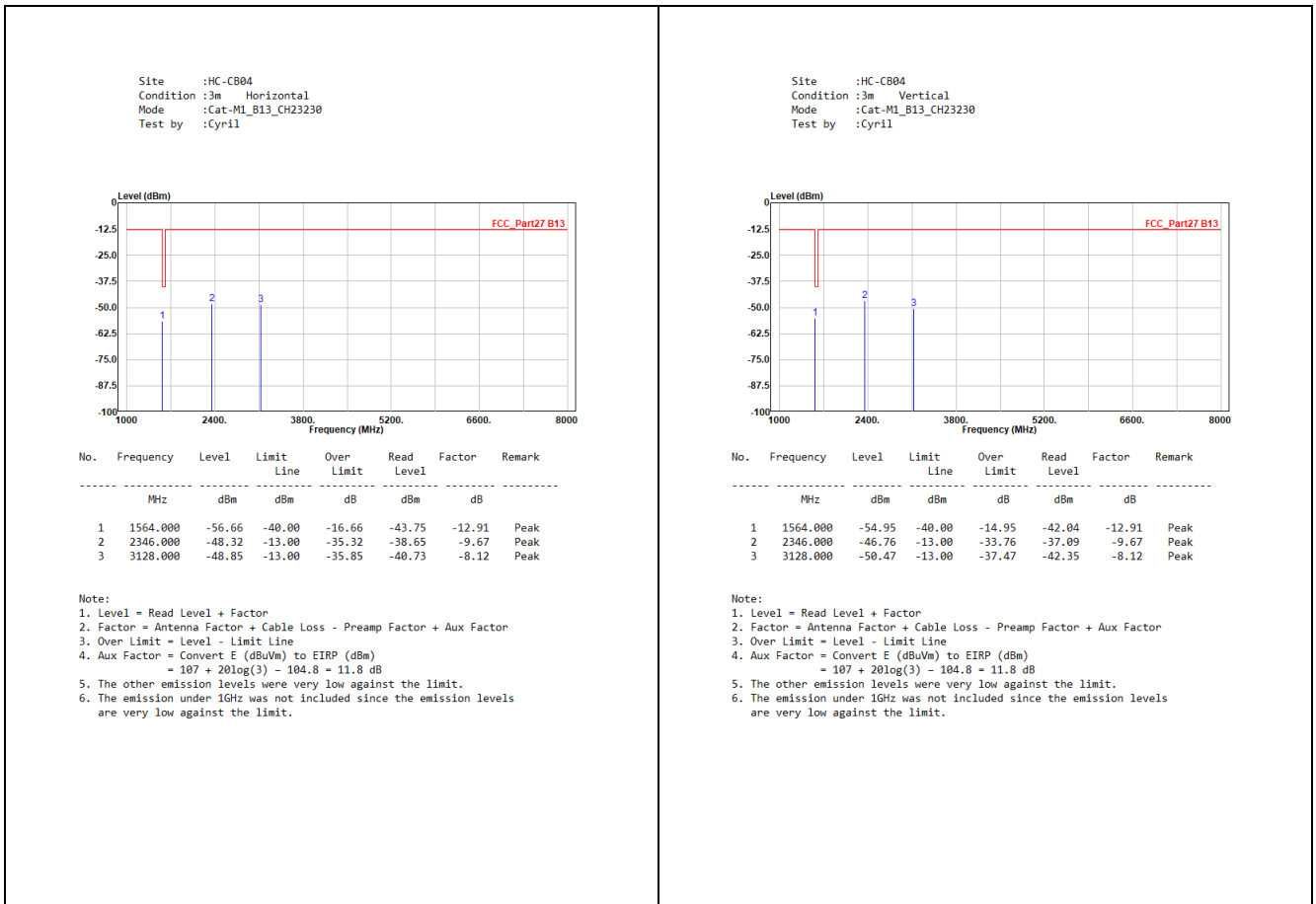
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) = 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :Cat-M1\_B12\_CH23095  
 Test by :Cyril

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1415.000	-45.95	-13.00	-32.95	-33.74	-12.21	Peak
2	2122.500	-36.66	-13.00	-23.66	-26.02	-10.64	Peak
3	2830.000	-45.73	-13.00	-32.73	-36.97	-8.76	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) = 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 9: Cat-M1 Band 13**



**Mode 10: Cat-M1 Band 25**

Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :Cat-M1\_B25\_CH26047  
 Test by :Cyril

No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3701.400	-57.50	-13.00	-44.50	-50.04	-7.46	Peak
2	5552.100	-55.36	-13.00	-42.36	-51.50	-3.86	Peak
3	7402.800	-50.99	-13.00	-37.99	-52.18	1.19	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :Cat-M1\_B25\_CH26047  
 Test by :Cyril

No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3701.400	-56.96	-13.00	-43.96	-49.50	-7.46	Peak
2	5552.100	-54.59	-13.00	-41.59	-50.73	-3.86	Peak
3	7402.800	-51.01	-13.00	-38.01	-52.20	1.19	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.



**Mode 11: Cat-M1 Band 26 (Part 22)**

Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :Cat-M1\_B26(Part22)\_CH26797  
 Test by :Cyril

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	Mhz	dBm	dBm	dB	dBm	dB	
1	1649.400	-55.35	-13.00	-42.35	-42.10	-13.25	Peak
2	2474.100	-47.85	-13.00	-34.85	-37.86	-9.99	Peak
3	3298.800	-52.97	-13.00	-39.97	-44.45	-8.52	Peak
4	4123.500	-58.35	-13.00	-45.35	-51.88	-6.47	Peak
5	4948.200	-56.68	-13.00	-43.68	-52.12	-4.56	Peak
6	5772.900	-56.88	-13.00	-43.88	-53.27	-3.61	Peak
7	6597.600	-55.36	-13.00	-42.36	-54.15	-1.21	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

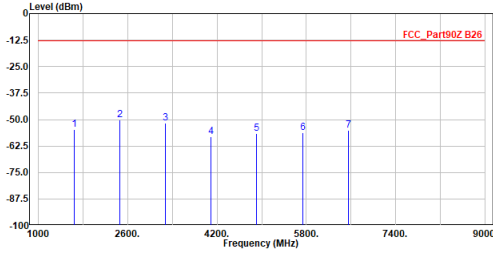
Site :HC-CB04  
 Condition :3m Vertical  
 Mode :Cat-M1\_B26(Part22)\_CH26797  
 Test by :Cyril

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	Mhz	dBm	dBm	dB	dBm	dB	
1	1649.400	-50.77	-13.00	-37.77	-37.52	-13.25	Peak
2	2474.100	-43.71	-13.00	-30.71	-33.72	-9.99	Peak
3	3298.800	-47.44	-13.00	-34.44	-38.92	-8.52	Peak
4	4123.500	-57.96	-13.00	-44.96	-51.49	-6.47	Peak
5	4948.200	-56.35	-13.00	-43.35	-51.79	-4.56	Peak
6	5772.900	-55.41	-13.00	-42.41	-51.80	-3.61	Peak
7	6597.600	-49.99	-13.00	-36.99	-48.78	-1.21	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 12: Cat-M1 Band 26 (Part 90)**

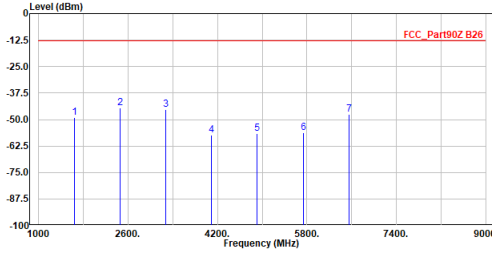
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :Cat-M1\_B26(Part90)\_CH26740  
 Test by :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1638.000	-54.64	-13.00	-41.64	-41.38	-13.26	Peak
2	2457.000	-50.26	-13.00	-37.26	-40.19	-10.07	Peak
3	3276.000	-51.74	-13.00	-38.74	-43.44	-8.30	Peak
4	4095.000	-58.14	-13.00	-45.14	-51.65	-6.49	Peak
5	4914.000	-56.56	-13.00	-43.56	-51.90	-4.66	Peak
6	5733.000	-56.36	-13.00	-43.36	-52.51	-3.85	Peak
7	6552.000	-55.21	-13.00	-42.21	-53.99	-1.22	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

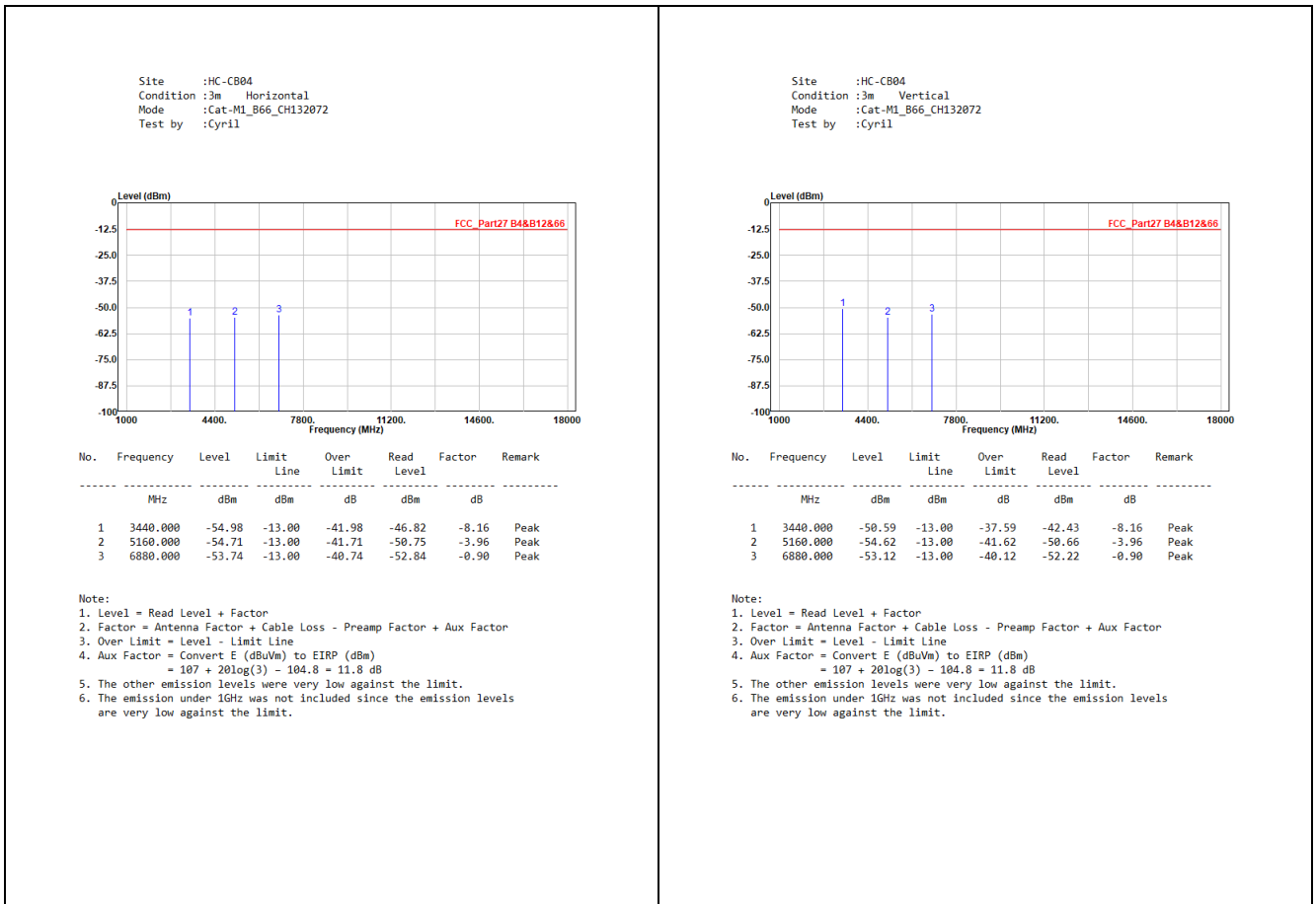
Site :HC-CB04  
 Condition :3m Vertical  
 Mode :Cat-M1\_B26(Part90)\_CH26740  
 Test by :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1638.000	-48.95	-13.00	-35.95	-35.69	-13.26	Peak
2	2457.000	-44.45	-13.00	-31.45	-34.38	-10.07	Peak
3	3276.000	-45.30	-13.00	-32.30	-37.00	-8.30	Peak
4	4095.000	-57.49	-13.00	-44.49	-51.00	-6.49	Peak
5	4914.000	-56.67	-13.00	-43.67	-52.01	-4.66	Peak
6	5733.000	-56.17	-13.00	-43.17	-52.32	-3.85	Peak
7	6552.000	-47.64	-13.00	-34.64	-46.42	-1.22	Peak

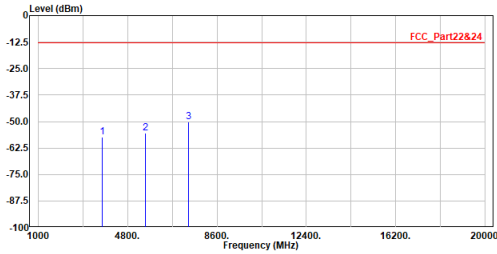
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 = 107 + 20log(3) - 104.8 = 11.8 dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 13: Cat-M1 Band 66**



**Mode 14: NB-IoT Band 2**

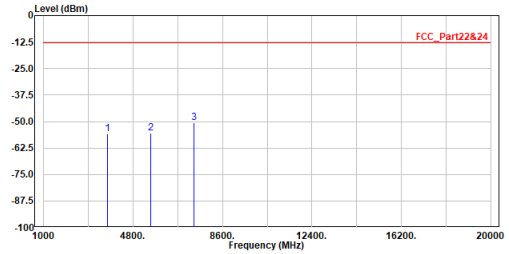
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B2\_CH18602  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3700.200	-57.20	-13.00	-44.20	-49.74	-7.46	Peak
2	5550.300	-55.36	-13.00	-42.36	-51.50	-3.86	Peak
3	7400.400	-50.27	-13.00	-37.27	-51.45	1.18	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

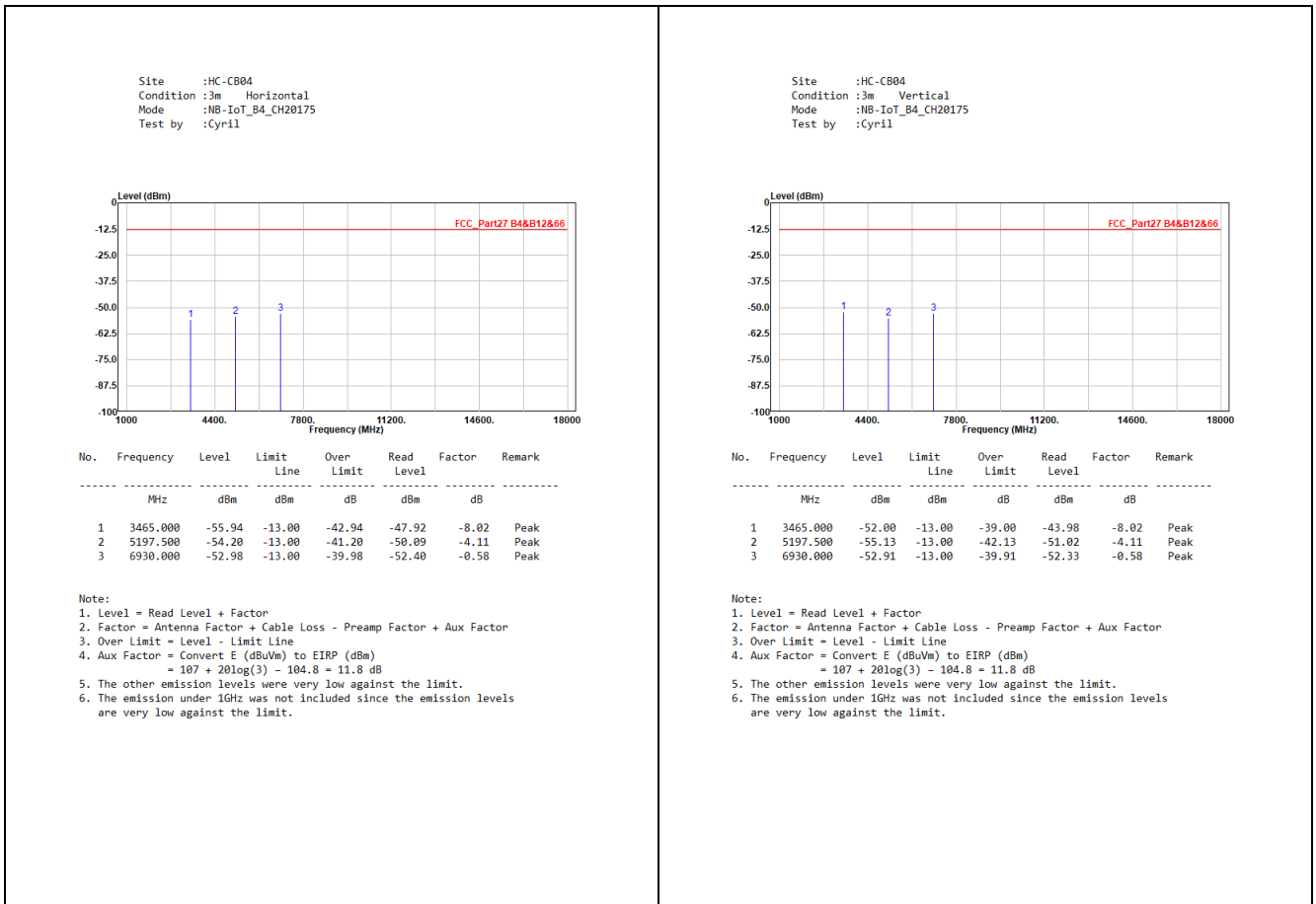
Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B2\_CH18602  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3700.200	-55.97	-13.00	-42.97	-48.51	-7.46	Peak
2	5550.300	-55.40	-13.00	-42.40	-51.54	-3.86	Peak
3	7400.400	-50.64	-13.00	-37.64	-51.82	1.18	Peak

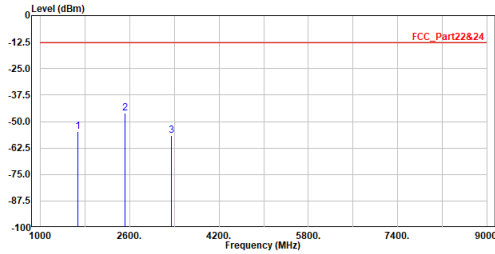
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 15: NB-IoT Band 4**



**Mode 16: NB-IoT Band 5**

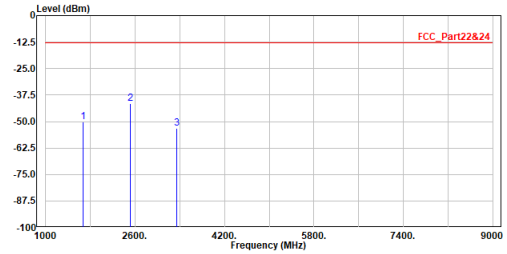
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B5\_CH20525  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1673.000	-54.71	-13.00	-41.71	-41.49	-13.22	Peak
2	2509.500	-46.20	-13.00	-33.20	-36.34	-9.86	Peak
3	3346.000	-56.73	-13.00	-43.73	-47.95	-8.78	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B5\_CH20525  
 Test by :Cyril

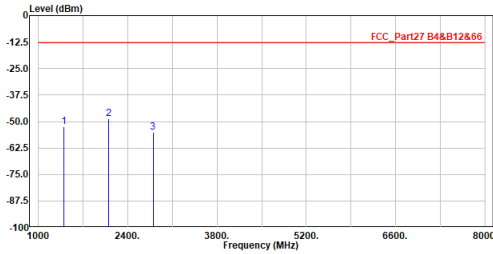


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1673.000	-50.11	-13.00	-37.11	-36.89	-13.22	Peak
2	2509.500	-41.35	-13.00	-28.35	-31.49	-9.86	Peak
3	3346.000	-53.18	-13.00	-40.18	-44.40	-8.78	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 17: NB-IoT Band 12**

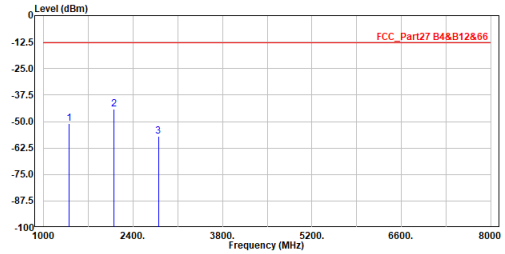
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B12\_CH23011  
 Test by :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1398.200	-52.37	-13.00	-39.37	-40.16	-12.21	Peak
2	2097.300	-48.65	-13.00	-35.65	-37.75	-10.90	Peak
3	2796.400	-55.02	-13.00	-42.02	-45.82	-9.20	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B12\_CH23011  
 Test by :Cyril

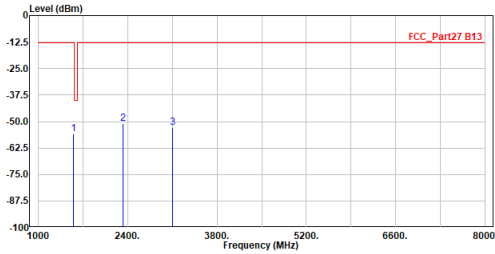


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1398.200	-50.84	-13.00	-37.84	-38.63	-12.21	Peak
2	2097.300	-44.28	-13.00	-31.28	-33.38	-10.90	Peak
3	2796.400	-57.01	-13.00	-44.01	-47.81	-9.20	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 18: NB-IoT Band 13**

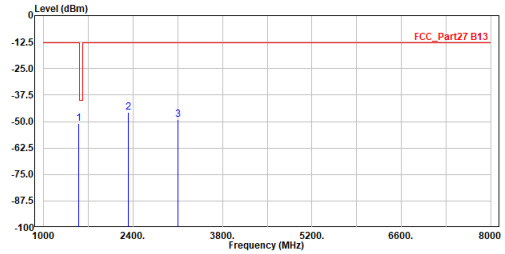
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B13\_CH23181  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1554.200	-55.90	-13.00	-42.90	-43.09	-12.81	Peak
2	2331.300	-51.09	-13.00	-38.09	-41.45	-9.64	Peak
3	3108.400	-52.73	-13.00	-39.73	-44.68	-8.05	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B13\_CH23181  
 Test by :Cyril



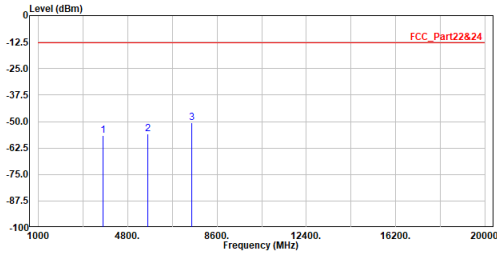
No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1554.200	-50.99	-13.00	-37.99	-38.18	-12.81	Peak
2	2331.300	-45.51	-13.00	-32.51	-35.87	-9.64	Peak
3	3108.400	-49.09	-13.00	-36.09	-41.04	-8.05	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.



**Mode 19: NB-IoT Band 25**

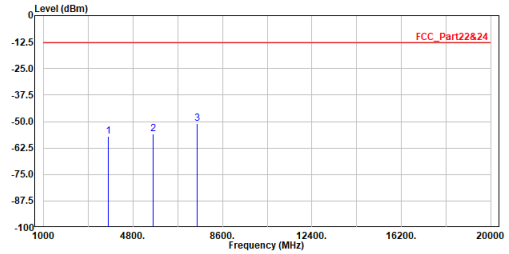
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B25\_CH26365  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3765.000	-56.42	-13.00	-43.42	-49.08	-7.34	Peak
2	5647.500	-55.84	-13.00	-42.84	-51.64	-4.20	Peak
3	7530.000	-50.44	-13.00	-37.44	-52.02	1.58	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$   
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B25\_CH26365  
 Test by :Cyril

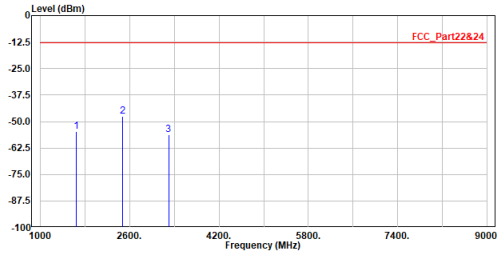


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3765.000	-56.93	-13.00	-43.93	-49.59	-7.34	Peak
2	5647.500	-55.70	-13.00	-42.70	-51.50	-4.20	Peak
3	7530.000	-51.03	-13.00	-38.03	-52.61	1.58	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$   
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 20: NB-IoT Band 26 (Part 22)**

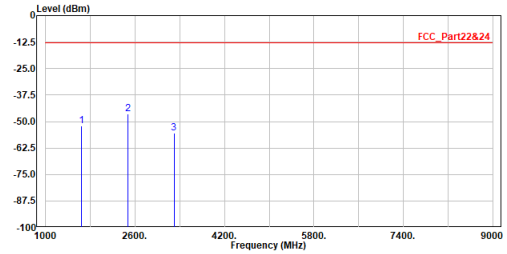
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B26(Part22)\_CH26791  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1648.200	-54.75	-13.00	-41.75	-41.50	-13.25	Peak
2	2472.300	-47.72	-13.00	-34.72	-37.72	-10.00	Peak
3	3296.400	-56.04	-13.00	-43.04	-47.56	-8.48	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B26(Part22)\_CH26791  
 Test by :Cyril

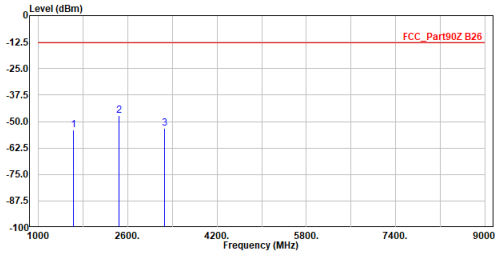


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1648.200	-52.00	-13.00	-39.00	-38.75	-13.25	Peak
2	2472.300	-46.55	-13.00	-33.55	-36.55	-10.00	Peak
3	3296.400	-55.39	-13.00	-42.39	-46.91	-8.48	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 21: NB-IoT Band 26 (Part 90)**

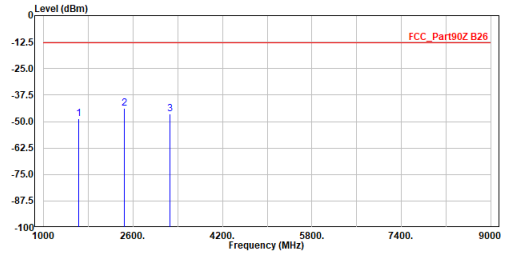
Site :HC-CB04  
 Condition :3m Horizontal  
 Mode :NB-IoT\_B26(Part90)\_CH26691  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1628.200	-54.02	-13.00	-41.02	-40.74	-13.28	Peak
2	2442.300	-47.04	-13.00	-34.04	-36.96	-10.08	Peak
3	3256.400	-53.13	-13.00	-40.13	-45.02	-8.11	Peak

Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

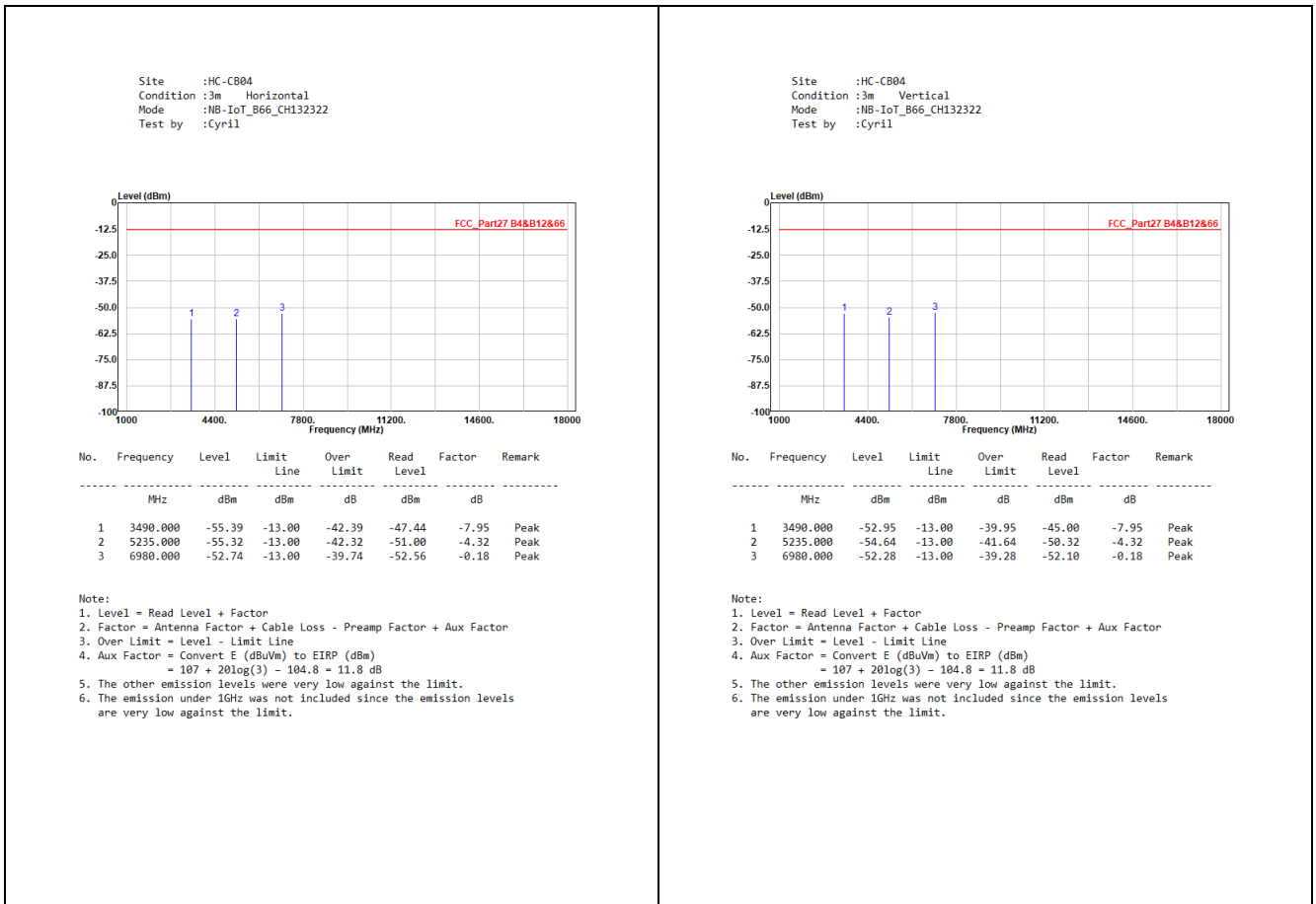
Site :HC-CB04  
 Condition :3m Vertical  
 Mode :NB-IoT\_B26(Part90)\_CH26691  
 Test by :Cyril



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1628.200	-48.49	-13.00	-35.49	-35.21	-13.28	Peak
2	2442.300	-43.72	-13.00	-30.72	-33.64	-10.08	Peak
3	3256.400	-46.58	-13.00	-33.58	-38.47	-8.11	Peak

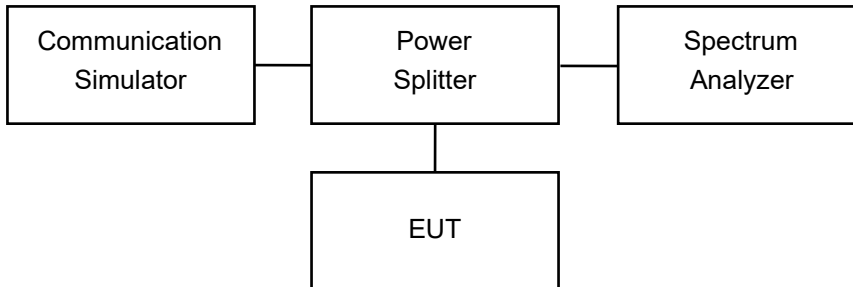
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  dB  
 5. The other emission levels were very low against the limit.  
 6. The emission under 1GHz was not included since the emission levels are very low against the limit.

**Mode 22: NB-IoT Band 66**



## 7. Conducted Band Edge

### 7.1. Test Setup



### 7.2. Test Procedure

1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

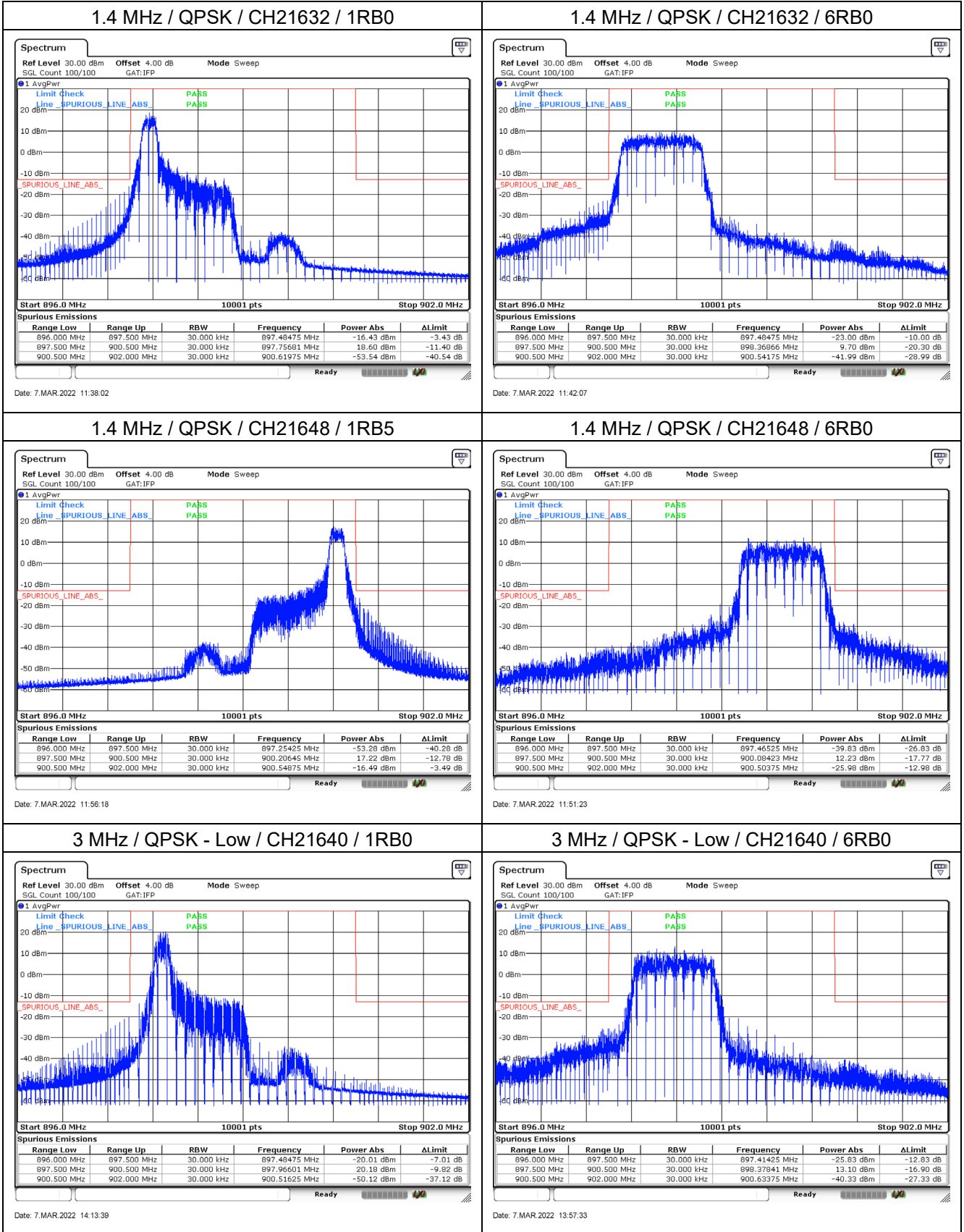
### 7.3. Test Methodology and Reference Procedures

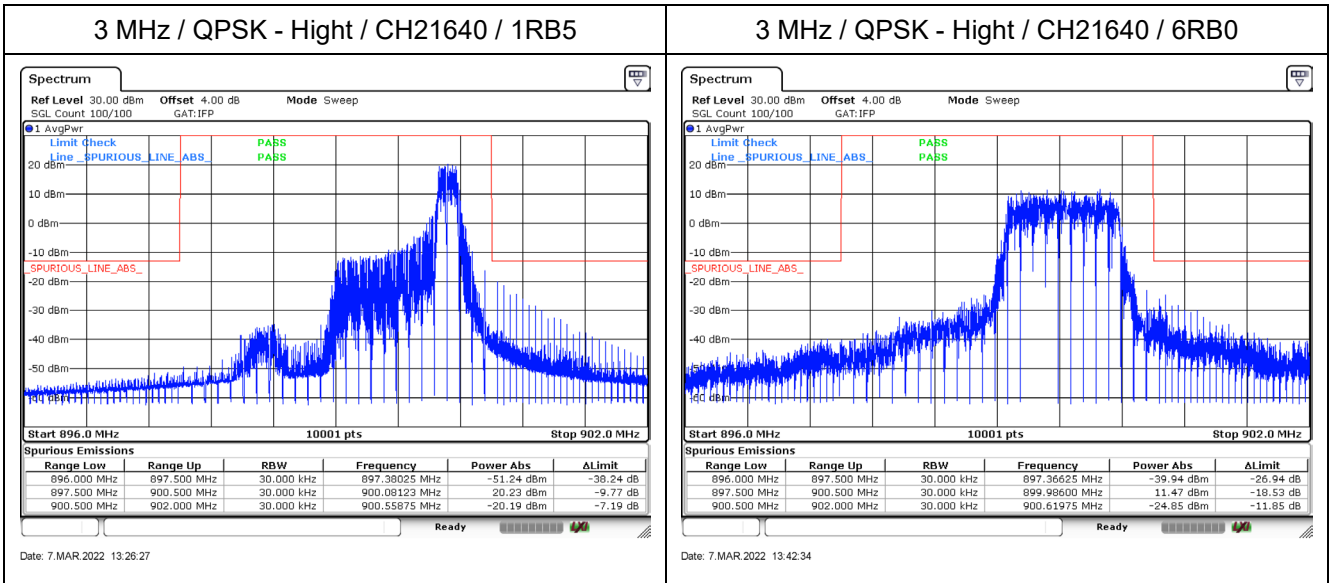
KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

### 7.4. Test Result of Conducted Band Edge

#### Mode 1: Cat-M1 Band 8 (FCC only)





**Mode 2: Cat-M1 Band 85**

