

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 7			
	Channel Bandwidth 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2505.000001	0.000	2565.000002	0.001
3.4	2505.000004	0.002	2565.000002	0.001
4.6	2505.000002	0.001	2565.000001	0.000

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2505.000004	0.002	2565.000003	0.001
-30	2505.000001	0.000	2565.000002	0.001
-20	2505.000004	0.002	2565.000001	0.000
-10	2505.000004	0.002	2565.000003	0.001
0	2505.000001	0.000	2565.000001	0.000
10	2505.000001	0.000	2565.000002	0.001
20	2504.999996	-0.002	2564.999998	-0.001
30	2504.999998	-0.001	2564.999999	0.000
40	2504.999998	-0.001	2564.999996	-0.002
50	2504.999999	0.000	2564.999998	-0.001
60	2504.999996	-0.002	2564.999998	-0.001
70	2504.999997	-0.001	2564.999996	-0.002
80	2504.999999	0.000	2564.999999	0.000
85	2504.999998	-0.001	2564.999999	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 7			
	Channel Bandwidth 15MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2507.500001	0.000	2562.500004	0.002
3.4	2507.500001	0.000	2562.500001	0.000
4.6	2507.500002	0.001	2562.500004	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth 15MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2507.500003	0.001	2562.500001	0.000
-30	2507.500002	0.001	2562.500001	0.000
-20	2507.500001	0.000	2562.500004	0.002
-10	2507.500002	0.001	2562.500002	0.001
0	2507.500004	0.002	2562.500001	0.000
10	2507.500004	0.002	2562.500002	0.001
20	2507.499996	-0.002	2562.499999	0.000
30	2507.499997	-0.001	2562.499999	0.000
40	2507.499996	-0.002	2562.499997	-0.001
50	2507.499996	-0.002	2562.499999	0.000
60	2507.499997	-0.001	2562.499998	-0.001
70	2507.499996	-0.002	2562.499996	-0.002
80	2507.499996	-0.002	2562.499996	-0.002
85	2507.499998	-0.001	2562.499997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 7			
	Channel Bandwidth 20MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	2510.000002	0.001	2560.000001	0.000
3.4	2510.000003	0.001	2560.000004	0.002
4.6	2510.000001	0.000	2560.000004	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth 20MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	2510.000001	0.000	2560.000001	0.000
-30	2510.000003	0.001	2560.000002	0.001
-20	2510.000002	0.001	2560.000001	0.000
-10	2510.000001	0.000	2560.000001	0.000
0	2510.000001	0.000	2560.000004	0.002
10	2510.000001	0.000	2560.000004	0.002
20	2509.999997	-0.001	2559.999996	-0.002
30	2509.999996	-0.002	2559.999997	-0.001
40	2509.999996	-0.002	2559.999997	-0.001
50	2509.999998	-0.001	2559.999996	-0.002
60	2509.999999	0.000	2559.999998	-0.001
70	2509.999997	-0.001	2559.999997	-0.001
80	2509.999996	-0.002	2559.999999	0.000
85	2509.999999	0.000	2559.999998	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 12			
	Channel Bandwidth 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	699.700004	0.006	715.300002	0.003
3.4	699.700002	0.003	715.300001	0.001
4.6	699.700001	0.001	715.300003	0.004

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	699.700003	0.004	715.300001	0.001
-30	699.700004	0.006	715.300003	0.004
-20	699.700004	0.006	715.300001	0.001
-10	699.700004	0.006	715.300001	0.001
0	699.700004	0.006	715.300003	0.004
10	699.700003	0.004	715.300002	0.003
20	699.699996	-0.006	715.299997	-0.004
30	699.699999	-0.001	715.299996	-0.006
40	699.699997	-0.004	715.299999	-0.001
50	699.699998	-0.003	715.299999	-0.001
60	699.699996	-0.006	715.299997	-0.004
70	699.699997	-0.004	715.299998	-0.003
80	699.699997	-0.004	715.299999	-0.001
85	699.699997	-0.004	715.299998	-0.003

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 12			
	Channel Bandwidth 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	700.500001	0.001	714.500001	0.001
3.4	700.500003	0.004	714.500003	0.004
4.6	700.500003	0.004	714.500003	0.004

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	700.500001	0.001	714.500003	0.004
-30	700.500001	0.001	714.500004	0.006
-20	700.500001	0.001	714.500004	0.006
-10	700.500003	0.004	714.500002	0.003
0	700.500002	0.003	714.500004	0.006
10	700.500001	0.001	714.500003	0.004
20	700.499998	-0.003	714.499998	-0.003
30	700.499997	-0.004	714.499997	-0.004
40	700.499997	-0.004	714.499999	-0.001
50	700.499997	-0.004	714.499996	-0.006
60	700.499996	-0.006	714.499997	-0.004
70	700.499997	-0.004	714.499997	-0.004
80	700.499997	-0.004	714.499998	-0.003
85	700.499998	-0.003	714.499997	-0.004

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 12			
	Channel Bandwidth 5MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	701.500001	0.001	713.500003	0.004
3.4	701.500001	0.001	713.500003	0.004
4.6	701.500003	0.004	713.500001	0.001

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth 5MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	701.500003	0.004	713.500001	0.001
-30	701.500001	0.001	713.500002	0.003
-20	701.500004	0.006	713.500004	0.006
-10	701.500001	0.001	713.500003	0.004
0	701.500004	0.006	713.500001	0.001
10	701.500001	0.001	713.500004	0.006
20	701.499999	-0.001	713.499999	-0.001
30	701.499996	-0.006	713.499998	-0.003
40	701.499996	-0.006	713.499997	-0.004
50	701.499999	-0.001	713.499999	-0.001
60	701.499996	-0.006	713.499998	-0.003
70	701.499996	-0.006	713.499998	-0.003
80	701.499997	-0.004	713.499998	-0.003
85	701.499999	-0.001	713.499997	-0.004

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 12			
	Channel Bandwidth 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	704.000004	0.006	711.000003	0.004
3.4	704.000003	0.004	711.000001	0.001
4.6	704.000004	0.006	711.000003	0.004

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	704.000003	0.004	711.000002	0.003
-30	704.000001	0.001	711.000002	0.003
-20	704.000001	0.001	711.000004	0.006
-10	704.000004	0.006	711.000001	0.001
0	704.000003	0.004	711.000002	0.003
10	704.000003	0.004	711.000001	0.001
20	703.999998	-0.003	710.999998	-0.003
30	703.999996	-0.006	710.999999	-0.001
40	703.999997	-0.004	710.999999	-0.001
50	703.999999	-0.001	710.999998	-0.003
60	703.999996	-0.006	710.999997	-0.004
70	703.999998	-0.003	710.999996	-0.006
80	703.999997	-0.004	710.999996	-0.006
85	703.999999	-0.001	710.999997	-0.004

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 17			
	Channel Bandwidth 5MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	706.500004	0.006	713.500004	0.006
3.4	706.500004	0.006	713.500003	0.004
4.6	706.500003	0.004	713.500004	0.006

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 17			
	Channel Bandwidth 5MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	706.500004	0.006	713.500001	0.001
-30	706.500002	0.003	713.500004	0.006
-20	706.500004	0.006	713.500001	0.001
-10	706.500001	0.001	713.500004	0.006
0	706.500002	0.003	713.500002	0.003
10	706.500004	0.006	713.500001	0.001
20	706.499996	-0.006	713.499997	-0.004
30	706.499996	-0.006	713.499998	-0.003
40	706.499998	-0.003	713.499999	-0.001
50	706.499999	-0.001	713.499996	-0.006
60	706.499998	-0.003	713.499996	-0.006
70	706.499996	-0.006	713.499999	-0.001
80	706.499999	-0.001	713.499999	-0.001
85	706.499998	-0.003	713.499999	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 17			
	Channel Bandwidth 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	709.000001	0.001	711.000002	0.003
3.4	709.000004	0.006	711.000002	0.003
4.6	709.000004	0.006	711.000003	0.004

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 17			
	Channel Bandwidth 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	709.000001	0.001	711.000002	0.003
-30	709.000002	0.003	711.000003	0.004
-20	709.000002	0.003	711.000004	0.006
-10	709.000003	0.004	711.000003	0.004
0	709.000002	0.003	711.000004	0.006
10	709.000001	0.001	711.000004	0.006
20	708.999999	-0.001	710.999997	-0.004
30	708.999999	-0.001	710.999998	-0.003
40	708.999996	-0.006	710.999997	-0.004
50	708.999997	-0.004	710.999997	-0.004
60	708.999998	-0.003	710.999998	-0.003
70	708.999996	-0.006	710.999999	-0.001
80	708.999997	-0.004	710.999996	-0.006
85	708.999999	-0.001	710.999998	-0.003

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 66			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1710.700004	0.002	1779.300004	0.002
3.4	1710.700003	0.002	1779.300001	0.001
4.6	1710.700002	0.001	1779.300003	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 66			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1710.700003	0.002	1779.300002	0.001
-30	1710.700004	0.002	1779.300003	0.002
-20	1710.700003	0.002	1779.300002	0.001
-10	1710.700003	0.002	1779.300003	0.002
0	1710.700004	0.002	1779.300003	0.002
10	1710.700004	0.002	1779.300002	0.001
20	1710.699997	-0.002	1779.299996	-0.002
30	1710.699998	-0.001	1779.299999	-0.001
40	1710.699996	-0.002	1779.299999	-0.001
50	1710.699997	-0.002	1779.299998	-0.001
60	1710.699997	-0.002	1779.299997	-0.002
70	1710.699999	-0.001	1779.299996	-0.002
80	1710.699997	-0.002	1779.299998	-0.001
85	1710.699996	-0.002	1779.299997	-0.002

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 66			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1711.500004	0.002	1778.500002	0.001
3.4	1711.500002	0.001	1778.500002	0.001
4.6	1711.500003	0.002	1778.500001	0.001

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 66			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1711.500004	0.002	1778.500004	0.002
-30	1711.500003	0.002	1778.500002	0.001
-20	1711.500003	0.002	1778.500003	0.002
-10	1711.500004	0.002	1778.500001	0.001
0	1711.500002	0.001	1778.500003	0.002
10	1711.500003	0.002	1778.500002	0.001
20	1711.499999	-0.001	1778.499996	-0.002
30	1711.499996	-0.002	1778.499999	-0.001
40	1711.499998	-0.001	1778.499996	-0.002
50	1711.499997	-0.002	1778.499997	-0.002
60	1711.499998	-0.001	1778.499998	-0.001
70	1711.499999	-0.001	1778.499997	-0.002
80	1711.499999	-0.001	1778.499999	-0.001
85	1711.499997	-0.002	1778.499997	-0.002

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 66			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1712.500003	0.002	1777.500001	0.001
3.4	1712.500001	0.001	1777.500003	0.002
4.6	1712.500001	0.001	1777.500002	0.001

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 66			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1712.500003	0.002	1777.500002	0.001
-30	1712.500003	0.002	1777.500002	0.001
-20	1712.500002	0.001	1777.500003	0.002
-10	1712.500003	0.002	1777.500001	0.001
0	1712.500003	0.002	1777.500003	0.002
10	1712.500002	0.001	1777.500002	0.001
20	1712.499998	-0.001	1777.499997	-0.002
30	1712.499998	-0.001	1777.499997	-0.002
40	1712.499997	-0.002	1777.499996	-0.002
50	1712.499996	-0.002	1777.499999	-0.001
60	1712.499999	-0.001	1777.499996	-0.002
70	1712.499999	-0.001	1777.499996	-0.002
80	1712.499997	-0.002	1777.499999	-0.001
85	1712.499998	-0.001	1777.499996	-0.002

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 66			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1715.000003	0.002	1775.000002	0.001
3.4	1715.000003	0.002	1775.000004	0.002
4.6	1715.000004	0.002	1775.000001	0.001

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 66			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1715.000002	0.001	1775.000001	0.001
-30	1715.000002	0.001	1775.000002	0.001
-20	1715.000004	0.002	1775.000004	0.002
-10	1715.000003	0.002	1775.000001	0.001
0	1715.000004	0.002	1775.000004	0.002
10	1715.000003	0.002	1775.000002	0.001
20	1714.999998	-0.001	1774.999998	-0.001
30	1714.999999	-0.001	1774.999997	-0.002
40	1714.999996	-0.002	1774.999997	-0.002
50	1714.999998	-0.001	1774.999999	-0.001
60	1714.999997	-0.002	1774.999996	-0.002
70	1714.999996	-0.002	1774.999999	-0.001
80	1714.999998	-0.001	1774.999997	-0.002
85	1714.999997	-0.002	1774.999997	-0.002

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 66			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1717.500001	0.001	1772.500001	0.001
3.4	1717.500002	0.001	1772.500004	0.002
4.6	1717.500002	0.001	1772.500003	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 66			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1717.500002	0.001	1772.500004	0.002
-30	1717.500003	0.002	1772.500001	0.001
-20	1717.500004	0.002	1772.500002	0.001
-10	1717.500001	0.001	1772.500003	0.002
0	1717.500004	0.002	1772.500004	0.002
10	1717.500003	0.002	1772.500003	0.002
20	1717.499997	-0.002	1772.499998	-0.001
30	1717.499999	-0.001	1772.499999	-0.001
40	1717.499998	-0.001	1772.499998	-0.001
50	1717.499999	-0.001	1772.499998	-0.001
60	1717.499999	-0.001	1772.499999	-0.001
70	1717.499999	-0.001	1772.499999	-0.001
80	1717.499999	-0.001	1772.499999	-0.001
85	1717.499999	-0.001	1772.499996	-0.002

Frequency Error vs. Voltage

Voltage (Vdc)	LTE Band 66			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
4.0	1720.000001	0.001	1770.000002	0.001
3.4	1720.000001	0.001	1770.000003	0.002
4.6	1720.000001	0.001	1770.000003	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.6Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 66			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-40	1720.000002	0.001	1770.000004	0.002
-30	1720.000001	0.001	1770.000003	0.002
-20	1720.000002	0.001	1770.000002	0.001
-10	1720.000004	0.002	1770.000004	0.002
0	1720.000002	0.001	1770.000003	0.002
10	1720.000003	0.002	1770.000003	0.002
20	1719.999998	-0.001	1769.999998	-0.001
30	1719.999998	-0.001	1769.999996	-0.002
40	1719.999997	-0.002	1769.999998	-0.001
50	1719.999998	-0.001	1769.999999	-0.001
60	1719.999998	-0.001	1769.999996	-0.002
70	1719.999997	-0.002	1769.999996	-0.002
80	1719.999998	-0.001	1769.999996	-0.002
85	1719.999996	-0.002	1769.999996	-0.002

4.4 Emission Bandwidth Measurement

4.4.1 Limits of Emission Bandwidth Measurement

According to FCC 2.1049, the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 % of the total mean power radiated by a given emission.

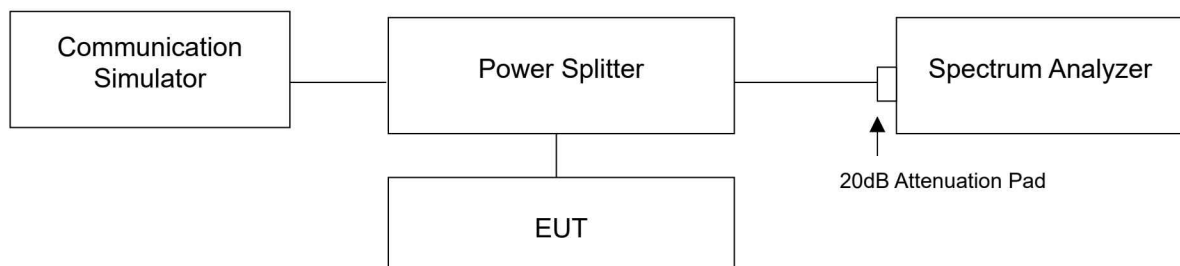
4.4.2 Test Procedure

For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- Determine the following reference values: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

For the occupied bandwidth measurement method, please refer to section 5.4.4 of ANSI C63.26.

4.4.3 Test Setup



4.4.4 Test Result

LTE Band 4 (Channel Bandwidth 1.4MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	19957	1710.7	1.0873	1.258
QPSK	20175	1732.5	1.0906	1.259
QPSK	20393	1754.3	1.0893	1.256
16QAM	19957	1710.7	1.0872	1.267
16QAM	20175	1732.5	1.0863	1.256
16QAM	20393	1754.3	1.0862	1.253
64QAM	19957	1710.7	1.0880	1.258
64QAM	20175	1732.5	1.0882	1.255
64QAM	20393	1754.3	1.0871	1.252

Spectrum Plot of Worst Value

