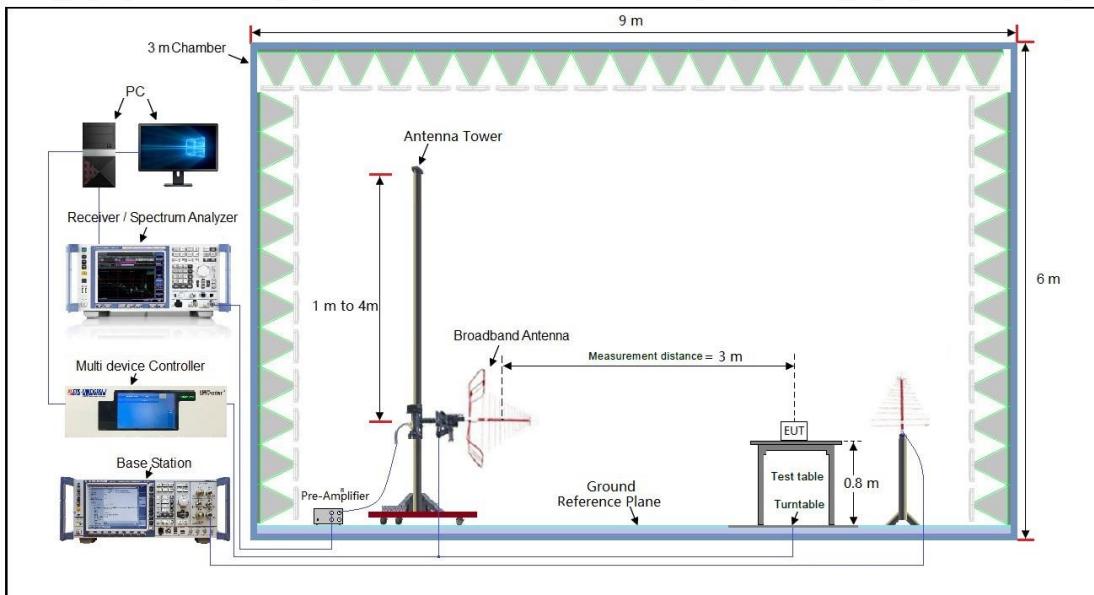
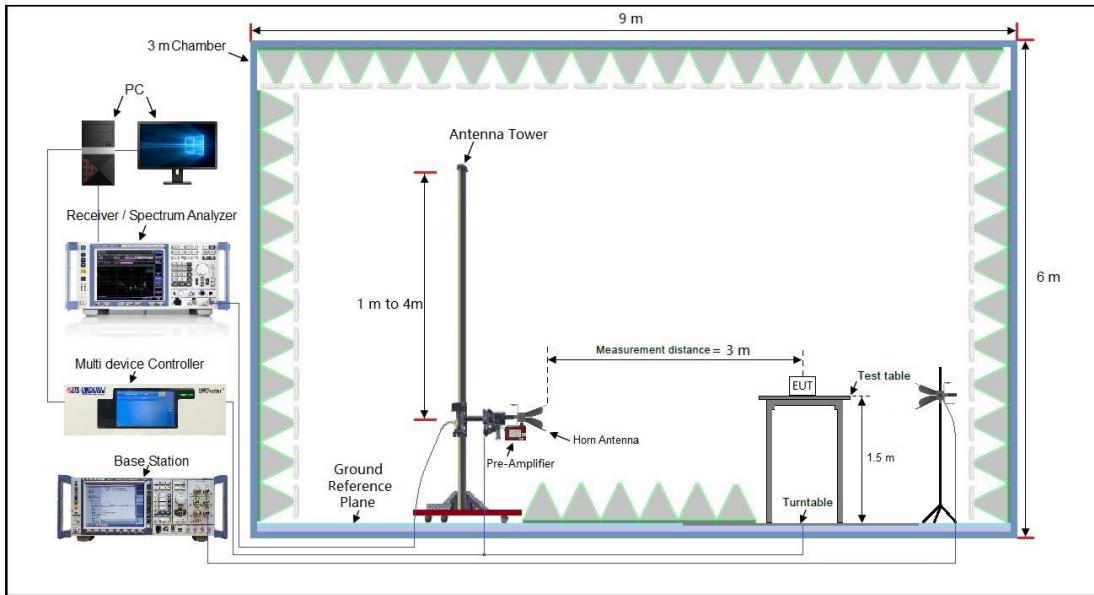


11.3 MEASUREMENT SETUP

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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11.4 MEASUREMENT RESULT

LTE Band 2 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5552.1	V	-41.46	-13	-28.46
3701.4	V	-40.46	-13	-27.46
695.5	V	-47.01	-13	-34.01
412.1	V	-50.22	-13	-37.22
5552.1	H	-39.89	-13	-26.89
3701.4	H	-40.50	-13	-27.50
678.3	H	-48.54	-13	-35.54
452.1	H	-50.00	-13	-37.00

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5640	V	-42.00	-13	-29.00
3760	V	-39.57	-13	-26.57
885.1	V	-47.65	-13	-34.65
618.7	V	-48.35	-13	-35.35
5640	H	-49.54	-13	-36.54
3760	H	-41.35	-13	-28.35
851.3	H	-44.94	-13	-31.94
732.5	H	-48.45	-13	-35.45

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5727.9	V	-41.57	-13	-28.57
3818.6	V	-41.70	-13	-28.70
664.5	V	-47.51	-13	-34.51
525.8	V	-47.02	-13	-34.02
5727.9	H	-39.65	-13	-26.65
3818.6	H	-39.59	-13	-26.59
669.8	H	-47.96	-13	-34.96
574.4	H	-48.08	-13	-35.08

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LTE Band 4
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5132.1	V	-39.85	-13	-26.85
3421.4	V	-40.09	-13	-27.09
745.5	V	-44.50	-13	-31.50
528.1	V	-47.75	-13	-34.75
5132.1	H	-39.59	-13	-26.59
3421.4	H	-40.06	-13	-27.06
520.5	H	-47.51	-13	-34.51
395.8	H	-43.41	-13	-30.41

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5197.5	V	-39.17	-13	-26.17
3465	V	-39.09	-13	-26.09
669.4	V	-45.96	-13	-32.96
512.5	V	-47.95	-13	-34.95
5197.5	H	-39.07	-13	-26.07
3465	H	-40.15	-13	-27.15
569.4	H	-47.19	-13	-34.19
469.3	H	-46.55	-13	-33.55

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5262.9	V	-38.29	-13	-25.29
3508.6	V	-39.26	-13	-26.26
711.1	V	-47.39	-13	-34.39
528.7	V	-47.08	-13	-34.08
5262.9	H	-38.21	-13	-25.21
3508.6	H	-37.98	-13	-24.98
612.5	H	-45.34	-13	-32.34
553.9	H	-46.21	-13	-33.21

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LTE Band 5
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2474.1	V	-41.78	-13	-28.78
1649.4	V	-42.20	-13	-29.20
512.2	V	-46.62	-13	-33.62
365.5	V	-47.02	-13	-34.02
2474.1	H	-40.12	-13	-27.12
1649.4	H	-39.67	-13	-26.67
521.1	H	-44.15	-13	-31.15
336.5	H	-45.23	-13	-32.23

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2509.5	V	-43.13	-13	-30.13
1673	V	-42.93	-13	-29.93
725.8	V	-46.49	-13	-33.49
616.6	V	-46.46	-13	-33.46
2509.5	H	-40.57	-13	-27.57
1673	H	-41.84	-13	-28.84
705.5	H	-45.23	-13	-32.23
558.9	H	-46.23	-13	-33.23

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2544.9	V	-40.97	-13	-27.97
1696.6	V	-39.74	-13	-26.74
648.3	V	-46.36	-13	-33.36
482.7	V	-46.80	-13	-33.80
2544.9	H	-40.35	-13	-27.35
1696.6	H	-40.74	-13	-27.74
785.6	H	-45.67	-13	-32.67
615.7	H	-47.62	-13	-34.62

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**LTE Band 7
Low channel**

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7507.5	V	-43.86	-25	-18.86
5005	V	-42.97	-25	-17.97
925.7	V	-50.16	-25	-25.16
678.9	V	-52.26	-25	-27.26
7507.5	H	-42.30	-25	-17.30
5005	H	-42.13	-25	-17.13
873.6	H	-49.37	-25	-24.37
662.7	H	-51.00	-25	-26.00

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBc)	Margin (dB)
7605	V	-43.96	-25	-18.96
5070	V	-41.52	-25	-16.52
833.7	V	-49.70	-25	-24.70
521.2	V	-51.33	-25	-26.33
7605	H	-41.07	-25	-16.07
5070	H	-42.12	-25	-17.12
819.6	H	-50.11	-25	-25.11
520.5	H	-48.99	-25	-23.99

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7702.5	V	-43.48	-25	-18.48
5135	V	-44.76	-25	-19.76
752.6	V	-52.52	-25	-27.52
511.4	V	-51.97	-25	-26.97
7702.5	H	-41.25	-25	-16.25
5135	H	-43.05	-25	-18.05
701.1	H	-48.95	-25	-23.95
507.1	H	-48.95	-25	-23.95

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LTE Band 12
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2099.1	V	-43.48	-13	-30.48
1399.4	V	-41.80	-13	-28.80
658.1	V	-50.59	-13	-37.59
516.9	V	-50.04	-13	-37.04
2099.1	H	-42.32	-13	-29.32
1399.4	H	-41.61	-13	-28.61
714.4	H	-48.98	-13	-35.98
669.5	H	-48.88	-13	-35.88

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2122.5	V	-44.99	-13	-31.99
1415	V	-44.46	-13	-31.46
651.5	V	-47.50	-13	-34.50
512.7	V	-50.09	-13	-37.09
2122.5	H	-43.14	-13	-30.14
1415	H	-43.99	-13	-30.99
525.4	H	-49.49	-13	-36.49
498.7	H	-49.67	-13	-36.67

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2145.9	V	-44.93	-13	-31.93
1430.6	V	-43.97	-13	-30.97
653.3	V	-47.00	-13	-34.00
592.7	V	-49.20	-13	-36.20
2145.9	H	-44.68	-13	-31.68
1430.6	H	-44.50	-13	-31.50
641.5	H	-50.91	-13	-37.91
558.3	H	-50.32	-13	-37.32

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LTE Band 13
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2338.5	V	-47.61	-13	-34.61
1559	V	-45.62	-13	-32.62
678.2	V	-48.29	-13	-35.29
423.6	V	-51.79	-13	-38.79
2338.5	H	-45.84	-13	-32.84
1559	H	-44.23	-13	-31.23
577.3	H	-52.40	-13	-39.40
345.9	H	-48.81	-13	-35.81

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2346	V	-45.74	-13	-32.74
1564	V	-45.47	-13	-32.47
611.7	V	-51.37	-13	-38.37
444.8	V	-53.08	-13	-40.08
2346	H	-44.74	-13	-31.74
1564	H	-45.95	-13	-32.95
692.8	H	-48.70	-13	-35.70
439.4	H	-52.47	-13	-39.47

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2353.5	V	-44.67	-13	-31.67
1569	V	-44.78	-13	-31.78
572.8	V	-48.37	-13	-35.37
309.9	V	-52.03	-13	-39.03
2353.5	H	-43.99	-13	-30.99
1569	H	-43.58	-13	-30.58
602.7	H	-49.52	-13	-36.52
413.6	H	-50.43	-13	-37.43

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LTE Band 13 (1559 MHz ~ 1610 MHz Wideband Band)

Operating Frequency (MHz)	Measured Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm/MHz)	Margin (dB)
779.5	1559	V	-64.52	-40	-24.52
782.0	1564	V	-66.74	-40	-26.74
784.5	1569	V	-65.41	-40	-25.41
779.5	1559	H	-65.11	-40	-25.11
782.0	1564	H	-64.23	-40	-24.23
784.5	1569	H	-68.41	-40	-28.41

Note: The spurious emissions found in the frequency band 1559-1610MHz meet the stricter Wideband limits.

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LTE Band 17
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2119.5	V	-41.87	-13	-28.87
1413	V	-46.46	-13	-33.46
652.8	V	-49.20	-13	-36.20
431.2	V	-46.11	-13	-33.11
2119.5	H	-41.85	-13	-28.85
1413	H	-50.90	-13	-37.90
547.1	H	-47.63	-13	-34.63
425.3	H	-44.37	-13	-31.37

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2130	V	-41.90	-13	-28.90
1420	V	-42.05	-13	-29.05
625.5	V	-47.44	-13	-34.44
498.3	V	-49.37	-13	-36.37
2130	H	-42.17	-13	-29.17
1420	H	-45.67	-13	-32.67
515.3	H	-49.22	-13	-36.22
412.5	H	-48.25	-13	-35.25

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2140.5	V	-39.96	-13	-26.96
1427	V	-46.55	-13	-33.55
577.8	V	-47.83	-13	-34.83
412.3	V	-43.73	-13	-30.73
2140.5	H	-39.47	-13	-26.47
1427	H	-46.67	-13	-33.67
505.6	H	-47.27	-13	-34.27
401.4	H	-47.93	-13	-34.93

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LTE Band 25
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5552.1	V	-47.76	-13	-34.76
3701.4	V	-45.85	-13	-32.85
718.5	V	-48.59	-13	-35.59
523.6	V	-52.02	-13	-39.02
5552.1	H	-45.34	-13	-32.34
3701.4	H	-45.71	-13	-32.71
613.3	H	-54.33	-13	-41.33
352.9	H	-49.61	-13	-36.61

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5647.5	V	-45.15	-13	-32.15
3765	V	-46.69	-13	-33.69
596.4	V	-51.25	-13	-38.25
678.8	V	-53.97	-13	-40.97
5647.5	H	-44.42	-13	-31.42
3765	H	-48.00	-13	-35.00
655.8	H	-47.99	-13	-34.99
411.2	H	-51.56	-13	-38.56

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5742.9	V	-46.70	-13	-33.70
3828.6	V	-45.20	-13	-32.20
486.3	V	-51.06	-13	-38.06
256.1	V	-52.60	-13	-39.60
5742.9	H	-45.84	-13	-32.84
3828.6	H	-43.90	-13	-30.90
574.3	H	-50.38	-13	-37.38
398.5	H	-51.11	-13	-38.11

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LTE Band 26A
Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2474.1	V	-49.57	-13	-36.57
1663	V	-46.95	-13	-33.95
563.4	V	-50.60	-13	-37.60
315.0	V	-54.82	-13	-41.82
2494.5	H	-46.81	-13	-33.81
1663	H	-46.52	-13	-33.52
463.8	H	-55.35	-13	-42.35
367.5	H	-49.60	-13	-36.60

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2509.5	V	-46.57	-13	-33.57
1673	V	-46.65	-13	-33.65
654.5	V	-52.02	-13	-39.02
543.2	V	-54.57	-13	-41.57
2509.5	H	-45.07	-13	-32.07
1673	H	-46.67	-13	-33.67
615.8	H	-49.67	-13	-36.67
363.1	H	-54.62	-13	-41.62

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2544.9	V	-46.90	-13	-33.90
1696.6	V	-44.76	-13	-31.76
526.8	V	-48.90	-13	-35.90
364.5	V	-52.96	-13	-39.96
2544.9	H	-44.88	-13	-31.88
1696.6	H	-44.48	-13	-31.48
683.4	H	-51.05	-13	-38.05
475.9	H	-51.01	-13	-38.01

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**LTE Band 26B
Low channel**

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2444.1	V	-50.49	-13	-37.49
1638	V	-49.58	-13	-36.58
842.3	V	-52.91	-13	-39.91
596.5	V	-55.32	-13	-42.32
2444.1	H	-48.78	-13	-35.78
1638	H	-47.36	-13	-34.36
774.5	H	-56.70	-13	-43.70
617.2	H	-51.04	-13	-38.04

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2457	V	-47.72	-13	-34.72
1638	V	-48.13	-13	-35.13
745.5	V	-54.75	-13	-41.75
512.8	V	-56.88	-13	-43.88
2457	H	-46.61	-13	-33.61
1638	H	-47.48	-13	-34.48
693.7	H	-50.80	-13	-37.80
497.2	H	-55.86	-13	-42.86

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2469.9	V	-48.54	-13	-35.54
1646.6	V	-45.14	-13	-32.14
882.2	V	-49.95	-13	-36.95
694.7	V	-54.63	-13	-41.63
2469.9	H	-46.65	-13	-33.65
1646.6	H	-46.23	-13	-33.23
745.1	H	-52.94	-13	-39.94
569.3	H	-52.14	-13	-39.14

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LTE Band 38
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7717.5	V	-50.45	-25	-25.45
5145	V	-46.07	-25	-21.07
881.2	V	-49.69	-25	-24.69
594.3	V	-52.82	-25	-27.82
7717.5	H	-48.25	-25	-23.25
5145	H	-45.06	-25	-20.06
463.8	H	-54.85	-25	-29.85
367.5	H	-50.06	-25	-25.06

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7785	V	-46.14	-25	-21.14
5190	V	-47.86	-25	-22.86
674.1	V	-54.21	-25	-29.21
493.2	V	-53.93	-25	-28.93
7785	H	-47.34	-25	-22.34
5190	H	-48.69	-25	-23.69
421.8	H	-49.38	-25	-24.38
203.1	H	-53.17	-25	-28.17

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7851	V	-46.87	-25	-21.87
5235	V	-47.32	-25	-22.32
745.3	V	-50.14	-25	-25.14
582.6	V	-52.45	-25	-27.45
7851	H	-45.20	-25	-20.20
5235	H	-45.99	-25	-20.99
742.1	H	-53.12	-25	-28.12
652.7	H	-51.83	-25	-26.83

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LTE Band 40-Lower Side
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
6922.5	V	-51.36	-40	-11.36
4615.0	V	-48.45	-40	-8.45
857.3	V	-51.99	-40	-11.99
921.6	V	-54.41	-40	-14.41
6922.5	H	-50.46	-40	-10.46
4615.0	H	-47.16	-40	-7.16
584.3	H	-56.58	-40	-16.58
462.8	H	-51.89	-40	-11.89

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
6930	V	-47.69	-40	-7.69
4620	V	-48.09	-40	-8.09
587.6	V	-54.53	-40	-14.53
415.9	V	-55.36	-40	-15.36
6930	H	-48.41	-40	-8.41
4620	H	-50.72	-40	-10.72
469.5	H	-50.52	-40	-10.52
351.2	H	-54.07	-40	-14.07

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
6937.5	V	-49.19	-40	-9.19
4625.0	V	-48.89	-40	-8.89
785.4	V	-53.45	-40	-13.45
569.3	V	-53.51	-40	-13.51
6937.5	H	-47.26	-40	-7.26
4625.0	H	-48.21	-40	-8.21
699.7	H	-54.39	-40	-14.39
512.0	H	-53.68	-40	-13.68

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LTE Band 40-Upper Side
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7057.5	V	-49.52	-40	-9.52
4705.0	V	-46.88	-40	-6.88
763.5	V	-49.82	-40	-9.82
512.8	V	-53.63	-40	-13.63
7057.5	H	-46.84	-40	-6.84
4705.0	H	-44.60	-40	-4.60
496.8	H	-55.42	-40	-15.42
359.2	H	-50.57	-40	-10.57

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7065	V	-47.59	-40	-7.59
4710	V	-47.91	-40	-7.91
887.4	V	-53.28	-40	-13.28
746.3	V	-53.29	-40	-13.29
7065	H	-46.32	-40	-6.32
4710	H	-47.46	-40	-7.46
649.7	H	-49.58	-40	-9.58
523.1	H	-54.00	-40	-14.00

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7072.5	V	-46.40	-40	-6.40
4715.0	V	-48.37	-40	-8.37
469.8	V	-49.46	-40	-9.46
321.7	V	-53.70	-40	-13.70
7072.5	H	-44.42	-40	-4.42
4715.0	H	-45.24	-40	-5.24
447.5	H	-53.41	-40	-13.41
369.3	H	-51.55	-40	-11.55

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LTE Band 41
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7495.5	V	-48.24	-25	-23.24
4997	V	-45.10	-25	-20.10
612.1	V	-47.72	-25	-22.72
483.6	V	-53.17	-25	-28.17
7495.5	H	-44.95	-25	-19.95
4997	H	-45.01	-25	-20.01
742.8	H	-53.15	-25	-28.15
563.7	H	-49.40	-25	-24.40

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
7779	V	-44.81	-25	-19.81
5186	V	-46.36	-25	-21.36
568.2	V	-51.21	-25	-26.21
341.5	V	-53.57	-25	-28.57
7779	H	-44.08	-25	-19.08
5186	H	-46.35	-25	-21.35
552.7	H	-47.80	-25	-22.80
421.5	H	-53.08	-25	-28.08

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
8062.5	V	-45.10	-25	-20.10
5375	V	-45.57	-25	-20.57
642.9	V	-48.28	-25	-23.28
471.6	V	-51.54	-25	-26.54
8062.5	H	-43.49	-25	-18.49
5375	H	-44.38	-25	-19.38
363.2	H	-50.20	-25	-25.20
274.6	H	-50.12	-25	-25.12

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LTE Band 66
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5132.1	V	-43.55	-13	-30.55
3421.4	V	-41.65	-13	-28.65
698.3	V	-46.71	-13	-33.71
417.5	V	-48.79	-13	-35.79
5132.1	H	-41.89	-13	-28.89
3421.4	H	-43.19	-13	-30.19
504.9	H	-49.72	-13	-36.72
431.9	H	-47.43	-13	-34.43

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5235	V	-42.98	-13	-29.98
3490	V	-41.64	-13	-28.64
578.2	V	-48.58	-13	-35.58
345.7	V	-49.37	-13	-36.37
5235	H	-41.82	-13	-28.82
3490	H	-42.32	-13	-29.32
634.8	H	-46.13	-13	-33.13
412.9	H	-50.21	-13	-37.21

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
5337.9	V	-42.06	-13	-29.06
3558.6	V	-40.14	-13	-27.14
752.6	V	-46.15	-13	-33.15
546.1	V	-49.16	-13	-36.16
5337.9	H	-41.30	-13	-28.30
3558.6	H	-41.26	-13	-28.26
687.3	H	-47.73	-13	-34.73
436.6	H	-46.85	-13	-33.85

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LTE Band 71
 Low channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
1996.5	V	-42.10	-13	-29.10
1331	V	-42.62	-13	-29.62
511.2	V	-45.43	-13	-32.43
375.4	V	-48.76	-13	-35.76
1996.5	H	-41.66	-13	-28.66
1331	H	-43.32	-13	-30.32
577.1	H	-50.67	-13	-37.67
309.6	H	-47.58	-13	-34.58

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2041.5	V	-42.56	-13	-29.56
1361	V	-42.91	-13	-29.91
515.1	V	-48.76	-13	-35.76
345.7	V	-50.63	-13	-37.63
2041.5	H	-42.63	-13	-29.63
1361	H	-42.01	-13	-29.01
564.5	H	-46.12	-13	-33.12
315.9	H	-51.49	-13	-38.49

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
2086.5	V	-41.64	-13	-28.64
1391	V	-40.72	-13	-27.72
546.6	V	-47.50	-13	-34.50
345.1	V	-49.56	-13	-36.56
2086.5	H	-40.98	-13	-27.98
1391	H	-41.07	-13	-28.07
534.2	H	-47.87	-13	-34.87
322.9	H	-47.43	-13	-34.43

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Note: 1. Margin (dB) = Emission Level(dBm) -Limit(dBm)

Emission Level(dBm)= Measurement Reading(dBm)+Factor(dB)

Factor(dB) = ANT Gain -Cable Loss + Power Splitter

2. The test refers to the value of Factor, please refer to the results listed in the test method in this section of the report.
3. Radiated Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0.
4. Below 30MHz, no spurious emission was found, and only the worst mode data above 30MHz is recorded in the report.

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12. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

12.1 PROVISIONS APPLICABLE

12.1.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -10°C to +40°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

12.1.2 For equipment powered by primary supply voltage

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -10°C to +40°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

12.2 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

- 1 Measure the carrier frequency at room temperature.
- 2 Subject the EUT to overnight soak at -10°C. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 3 Repeat the above measurements at 10°C increments from -10°C to +40°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 4 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

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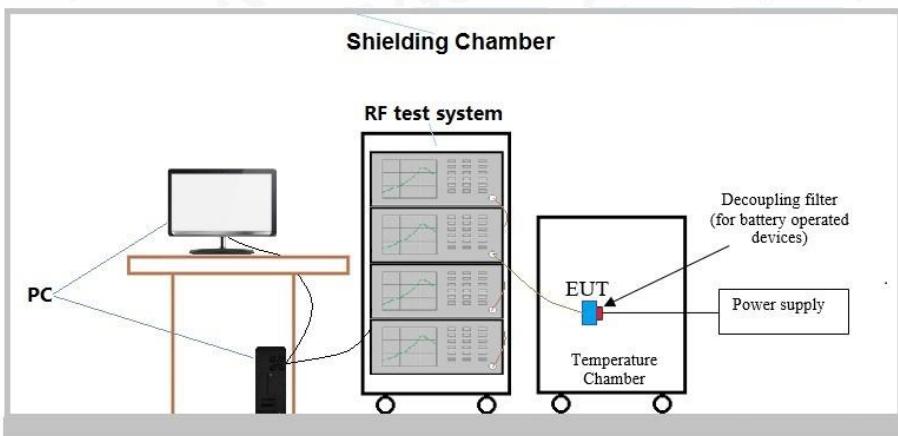
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- 5 Subject the EUT to overnight soak at +40°C.
- 6 With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 7 Repeat the above measurements at 10°C increments from +40°C to -10°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 8 At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

12.3 MEASUREMENT SETUP



12.4 MEASUREMENT RESULT

LTE Band 2

Middle Channel, $f_0 = 1880$ MHz			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	7.14	0.003858
0		4.78	0.002583
10		4.29	0.002318
20		-2.92	-0.001553
30		5.02	0.002670
40		3.79	0.002016
25		-4.89	-0.002561
	4.40	7.14	0.003858
	3.27		

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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LTE Band 4

Middle Channel, $f_0 = 1732.5$ MHz				
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Temperature (°C)
-10	3.85	3.43	0.002005	±2.5
0		5.28	0.003086	±2.5
10		-3.02	-0.001765	±2.5
20		-3.26	-0.001882	±2.5
30		-2.16	-0.001247	±2.5
40		4.32	0.002494	±2.5
25	4.40	-5.31	-0.003027	±2.5
	3.27	3.43	0.002005	±2.5

LTE Band 5

Middle Channel, $f_0 = 836.5$ MHz				
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Temperature (°C)
-10	3.85	-4.25	-0.005153	±2.5
0		-2.86	-0.003468	±2.5
10		-3.89	-0.004650	±2.5
20		-3.18	-0.003802	±2.5
30		-2.23	-0.002666	±2.5
40		2.13	0.002511	±2.5
25	4.40	-1.30	-0.001532	±2.5
	3.27	-2.69	-0.003262	±2.5

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LTE Band 7

Middle Channel, $f_0 = 2535$ MHz			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	6.07	0.002426
0		8.55	0.003417
10		3.66	0.001463
20		-8.43	-0.003325
30		-9.23	-0.003641
40		-7.57	-0.002986
25		4.40	0.002314
	3.27	5.09	0.001982

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

LTE Band 12

Middle Channel, $f_0 = 707.5$ MHz			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	2.19	0.003130
0		1.16	0.001658
10		2.15	0.003073
20		-2.19	-0.003095
30		-3.35	-0.004735
40		-3.60	-0.005088
25		4.40	0.003285
	3.27	2.35	-0.003761

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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LTE Band 13

Middle Channel, $f_0 = 782.0\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	1.73	0.002219
0		2.07	0.002656
10		1.62	0.002078
20		2.57	0.003286
30		1.95	0.002494
40		-5.54	-0.007084
25		-4.05	-0.005163
	4.40	-1.73	-0.002205
	3.27		

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

LTE Band 17

Middle Channel, $f_0 = 710\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	-2.65	-0.003751
0		-3.33	-0.004713
10		-3.28	-0.004643
20		2.46	0.003465
30		-1.34	-0.001887
40		2.37	0.003338
25		-1.52	-0.002130
	4.40	-0.79	-0.001107
	3.27		

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LTE Band 25

Middle Channel, $f_0 = 1882.5\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	-3.52	-0.001902
0		2.98	0.001610
10		-4.88	-0.002637
20		4.22	0.002242
30		3.91	0.002077
40		3.63	0.001928
25		-4.31	-0.002251
	4.40	-3.52	-0.001902
	3.27		

LTE Band 26A

Middle Channel, $f_0 = 836.5\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	-5.51	-0.006681
0		-5.38	-0.006524
10		-5.52	-0.006693
20		2.53	0.003025
30		2.99	0.003574
40		-4.75	-0.005678
25		3.59	0.004232
	4.40	3.95	0.004656
	3.27		

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LTE Band 26B

Middle Channel, $f_0 = 821.5\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	-3.02	-0.003707
0		-2.03	-0.002492
10		3.50	0.004296
20		-4.56	-0.005568
30		-4.16	-0.005079
40		-2.60	-0.003175
25		-2.36	-0.002867
	4.40	-4.88	-0.005927
	3.27		

LTE Band 38

Middle Channel, $f_0 = 2595.0\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	10.73	0.004171
0		-12.83	-0.004987
10		16.88	0.006562
20		23.39	0.009013
30		18.40	0.007091
40		15.16	0.005842
25		16.38	0.006258
	4.40	14.49	0.005536
	3.27		

LTE Band 40-Lower Side

Middle Channel, $f_0 = 2310.0\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	15.03	0.006506
0		-12.53	-0.005424
10		14.45	0.006255
20		19.37	0.008225
30		16.82	0.007142
40		17.62	0.007482
25		15.03	0.006506
	4.40	12.10	0.005238
	3.27		

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LTE Band 40-Upper Side

Middle Channel, $f_0 = 2355.0$ MHz			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	20.16	0.008561
0		16.32	0.006930
10		19.47	0.008268
20		19.37	0.008225
30		16.82	0.007142
40		17.62	0.007482
25		17.34	0.007363
	4.40	15.28	0.006488
	3.27		

LTE Band 41

Middle Channel, $f_0 = 2593.0$ MHz			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	27.78	0.011119
0		25.29	0.010122
10		24.72	0.009894
20		24.66	0.009510
30		23.57	0.009090
40		19.71	0.007601
25		23.46	0.008729
	4.40	19.04	0.007085
	3.27		

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LTE Band 66

Middle Channel, $f_0 = 1745.0\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	3.25	0.001900
0		5.11	0.002987
10		5.46	0.003192
20		-5.39	-0.003089
30		-7.21	-0.004132
40		-6.09	-0.003490
25		4.40	0.002169
	3.27	-2.47	-0.001388

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

LTE Band 71

Middle Channel, $f_0 = 680.5\text{MHz}$			
Temperature (°C)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10	3.85	-2.05	-0.003080
0		-3.36	-0.005049
10		-4.45	-0.006687
20		-1.90	-0.002792
30		-2.13	-0.003130
40		1.16	0.001705
25		4.40	-0.003738
	3.27	-2.40	-0.003451

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

Note: 1. The device under test maintains the minimum and maximum operating temperature and the required limit voltage according to the manufacturer's requirements.
 2. Only the worst working mode data is recorded in the report.

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13. OCCUPIED BANDWIDTH

13.1 PROVISIONS APPLICABLE

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission. The EUT makes a call to the communication simulator.

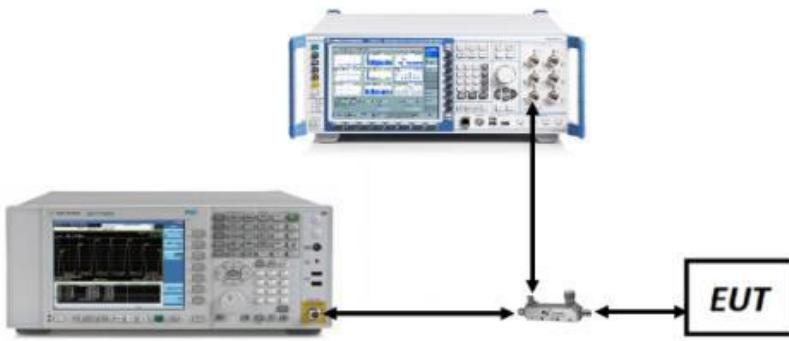
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

13.2 MEASUREMENT METHOD

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

13.3 MEASUREMENT SETUP



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13.4 MEASUREMENT RESULT

LTE Band 2

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0913	1.267	PASS
	MCH	6	0	1.0936	1.263	PASS
	HCH	6	0	1.0920	1.270	PASS
16QAM	LCH	6	0	1.0919	1.270	PASS
	MCH	6	0	1.0929	1.270	PASS
	HCH	6	0	1.0909	1.244	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6929	2.931	PASS
	MCH	15	0	2.7016	2.920	PASS
	HCH	15	0	2.6884	2.905	PASS
16QAM	LCH	15	0	2.6948	2.917	PASS
	MCH	15	0	2.6984	2.918	PASS
	HCH	15	0	2.6918	2.928	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.5024	4.903	PASS
	MCH	25	0	4.4984	4.880	PASS
	HCH	25	0	4.5060	4.861	PASS
16QAM	LCH	25	0	4.5042	4.864	PASS
	MCH	25	0	4.4981	4.884	PASS
	HCH	25	0	4.5105	4.903	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9792	9.555	PASS
	MCH	50	0	8.9800	9.539	PASS
	HCH	50	0	8.9914	9.565	PASS
16QAM	LCH	50	0	8.9779	9.553	PASS
	MCH	50	0	8.9712	9.544	PASS
	HCH	50	0	8.9786	9.567	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.463	14.25	PASS
	MCH	75	0	13.472	14.33	PASS
	HCH	75	0	13.441	14.24	PASS
16QAM	LCH	75	0	13.470	14.26	PASS
	MCH	75	0	13.472	14.26	PASS
	HCH	75	0	13.443	14.24	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.924	18.95	PASS
	MCH	100	0	17.969	18.97	PASS
	HCH	100	0	17.877	18.95	PASS
16QAM	LCH	100	0	17.913	18.94	PASS
	MCH	100	0	17.973	18.96	PASS
	HCH	100	0	17.870	18.94	PASS

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LTE Band 4

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0920	1.261	PASS
	MCH	6	0	1.0902	1.260	PASS
	HCH	6	0	1.0916	1.260	PASS
16QAM	LCH	6	0	1.0909	1.267	PASS
	MCH	6	0	1.0907	1.266	PASS
	HCH	6	0	1.0916	1.268	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6973	2.934	PASS
	MCH	15	0	2.6884	2.898	PASS
	HCH	15	0	2.6991	2.935	PASS
16QAM	LCH	15	0	2.6922	2.898	PASS
	MCH	15	0	2.6921	2.911	PASS
	HCH	15	0	2.6961	2.915	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4997	4.906	PASS
	MCH	25	0	4.4984	4.902	PASS
	HCH	25	0	4.4974	4.889	PASS
16QAM	LCH	25	0	4.5058	4.856	PASS
	MCH	25	0	4.5020	4.856	PASS
	HCH	25	0	4.5010	4.906	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9865	9.581	PASS
	MCH	50	0	8.9715	9.560	PASS
	HCH	50	0	8.9630	9.545	PASS
16QAM	LCH	50	0	8.9716	9.581	PASS
	MCH	50	0	8.9603	9.535	PASS
	HCH	50	0	8.9627	9.536	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.465	14.33	PASS
	MCH	75	0	13.470	14.28	PASS
	HCH	75	0	13.462	14.27	PASS
16QAM	LCH	75	0	13.453	14.27	PASS
	MCH	75	0	13.457	14.24	PASS
	HCH	75	0	13.451	14.25	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.928	18.98	PASS
	MCH	100	0	17.944	18.98	PASS
	HCH	100	0	17.956	19.01	PASS
16QAM	LCH	100	0	17.915	18.94	PASS
	MCH	100	0	17.924	18.96	PASS
	HCH	100	0	17.961	18.99	PASS

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LTE Band 5

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0921	1.258	PASS
	MCH	6	0	1.0903	1.255	PASS
	HCH	6	0	1.0910	1.258	PASS
16QAM	LCH	6	0	1.0922	1.249	PASS
	MCH	6	0	1.0900	1.269	PASS
	HCH	6	0	1.0898	1.257	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6993	2.898	PASS
	MCH	15	0	2.6970	2.918	PASS
	HCH	15	0	2.6969	2.919	PASS
16QAM	LCH	15	0	2.6910	2.887	PASS
	MCH	15	0	2.6906	2.904	PASS
	HCH	15	0	2.6928	2.908	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4907	4.881	PASS
	MCH	25	0	4.5006	4.894	PASS
	HCH	25	0	4.4981	4.873	PASS
16QAM	LCH	25	0	4.5017	4.858	PASS
	MCH	25	0	4.5047	4.863	PASS
	HCH	25	0	4.5004	4.888	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9667	9.544	PASS
	MCH	50	0	8.9950	9.551	PASS
	HCH	50	0	8.9637	9.543	PASS
16QAM	LCH	50	0	8.9452	9.505	PASS
	MCH	50	0	8.9883	9.546	PASS
	HCH	50	0	8.9666	9.549	PASS

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LTE Band 7

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4981	4.897	PASS
	MCH	25	0	4.4997	4.897	PASS
	HCH	25	0	4.4947	4.893	PASS
16QAM	LCH	25	0	4.5070	4.868	PASS
	MCH	25	0	4.5027	4.914	PASS
	HCH	25	0	4.5055	4.868	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9724	9.548	PASS
	MCH	50	0	8.9791	9.565	PASS
	HCH	50	0	8.9558	9.531	PASS
16QAM	LCH	50	0	8.9652	9.573	PASS
	MCH	50	0	8.9818	9.570	PASS
	HCH	50	0	8.9466	9.530	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.453	14.30	PASS
	MCH	75	0	13.469	14.32	PASS
	HCH	75	0	13.438	14.29	PASS
16QAM	LCH	75	0	13.447	14.26	PASS
	MCH	75	0	13.453	14.29	PASS
	HCH	75	0	13.419	14.24	PASS

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Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.903	18.94	PASS
	MCH	100	0	17.936	18.99	PASS
	HCH	100	0	17.870	18.92	PASS
16QAM	LCH	100	0	17.906	18.98	PASS
	MCH	100	0	17.952	19.00	PASS
	HCH	100	0	17.880	18.92	PASS

Note: Please refers to Appendix B for compliance test plots for Occupied Bandwidth & Emission Bandwidth.

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LTE Band 12

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0913	1.250	PASS
	MCH	6	0	1.0916	1.257	PASS
	HCH	6	0	1.0910	1.247	PASS
16QAM	LCH	6	0	1.0906	1.264	PASS
	MCH	6	0	1.0899	1.263	PASS
	HCH	6	0	1.0908	1.262	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6979	2.919	PASS
	MCH	15	0	2.6999	2.911	PASS
	HCH	15	0	2.6981	2.915	PASS
16QAM	LCH	15	0	2.6976	2.905	PASS
	MCH	15	0	2.6881	2.904	PASS
	HCH	15	0	2.6928	2.907	PASS

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Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4990	4.891	PASS
	MCH	25	0	4.4980	4.887	PASS
	HCH	25	0	4.4932	4.845	PASS
16QAM	LCH	25	0	4.4998	4.873	PASS
	MCH	25	0	4.4937	4.893	PASS
	HCH	25	0	4.5009	4.869	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9617	9.546	PASS
	MCH	50	0	8.9615	9.537	PASS
	HCH	50	0	8.9455	9.510	PASS
16QAM	LCH	50	0	8.9518	9.548	PASS
	MCH	50	0	8.9589	9.522	PASS
	HCH	50	0	8.9440	9.555	PASS

LTE Band 13

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4917	4.869	PASS
	MCH	25	0	4.4985	4.886	PASS
	HCH	25	0	4.5043	4.905	PASS
16QAM	LCH	25	0	4.4941	4.883	PASS
	MCH	25	0	4.4959	4.897	PASS
	HCH	25	0	4.5112	4.905	PASS

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