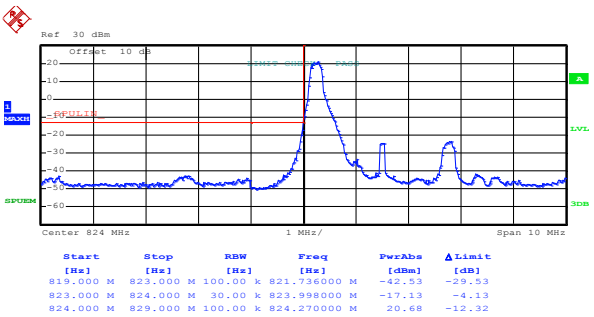
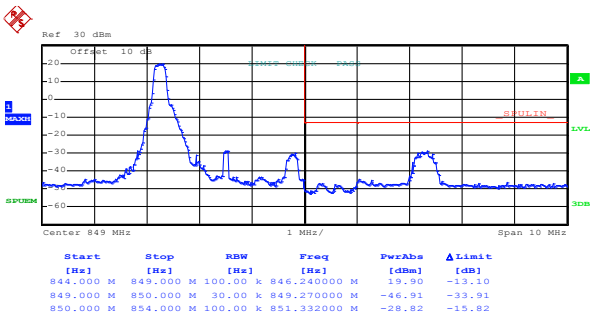
**3 MHz:**

16QAM & RB Size 1




Date: 27.OCT.2017 00:00:40

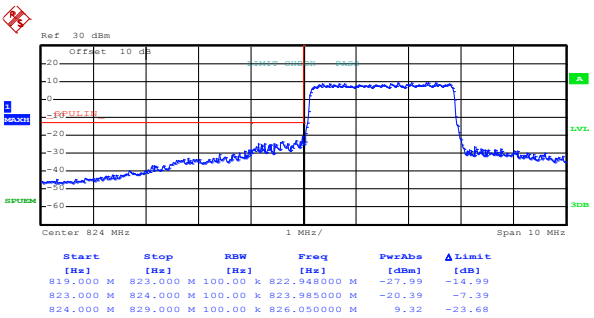
Lowest channel




Date: 27.OCT.2017 00:02:34

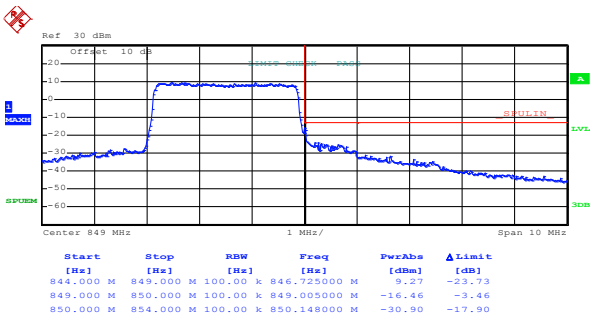
Highest channel

16QAM & RB Size 15




Date: 27.OCT.2017 00:02:11

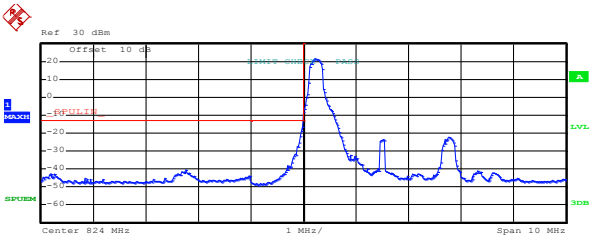
Lowest channel




Date: 27.OCT.2017 00:04:00

Highest channel

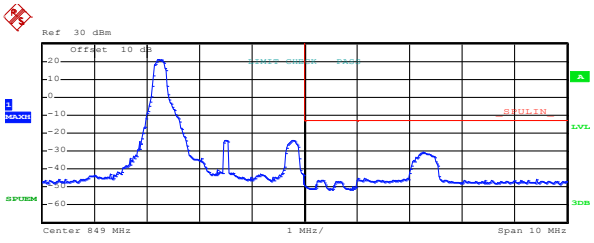
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 819.000 M | 823.000 M | 100.00 k | 821.756000 M | -40.55 | -27.55 |
| 823.000 M | 824.000 M | 30.00 k | 823.991000 M | -16.61 | -3.61 |
| 824.000 M | 829.000 M | 100.00 k | 824.225000 M | 21.32 | -11.68 |

Date: 27.OCT.2017 00:00:30

Lowest channel

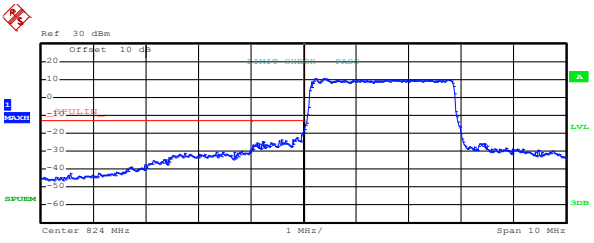



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 844.000 M | 849.000 M | 100.00 k | 846.230000 M | 21.16 | -11.84 |
| 849.000 M | 850.000 M | 30.00 k | 849.359000 M | -46.10 | -33.10 |
| 850.000 M | 854.000 M | 100.00 k | 851.252000 M | -30.39 | -17.39 |

Date: 27.OCT.2017 00:02:29

Highest channel

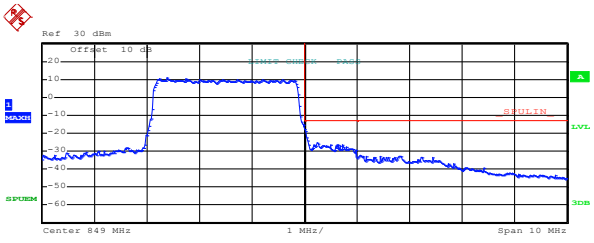
QPSK & RB Size 15




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 819.000 M | 823.000 M | 100.00 k | 822.820000 M | -30.16 | -17.16 |
| 823.000 M | 824.000 M | 100.00 k | 823.993000 M | -19.94 | -6.94 |
| 824.000 M | 829.000 M | 100.00 k | 824.370000 M | 10.54 | -22.46 |

Date: 27.OCT.2017 00:02:08

Lowest channel



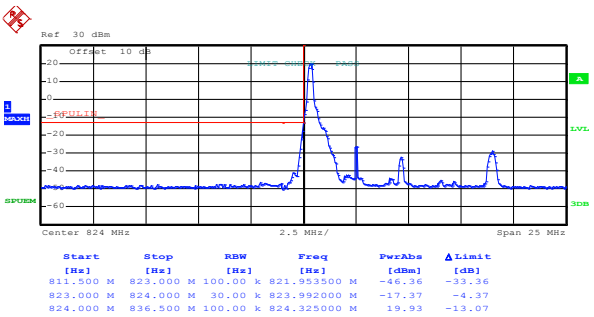

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 844.000 M | 849.000 M | 100.00 k | 846.370000 M | 10.78 | -22.22 |
| 849.000 M | 850.000 M | 100.00 k | 849.003000 M | -17.06 | -4.06 |
| 850.000 M | 854.000 M | 100.00 k | 850.084000 M | -32.16 | -19.16 |

Date: 27.OCT.2017 00:03:52

Highest channel

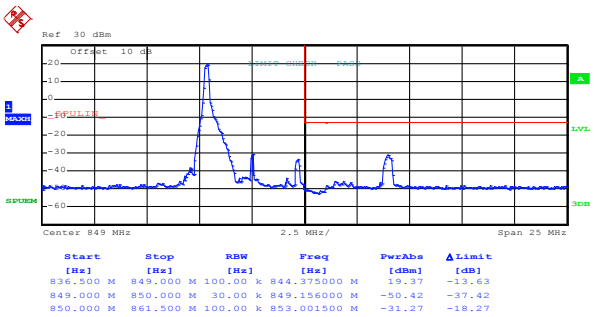
**5 MHz:**

16QAM & RB Size 1




Date: 27.OCT.2017 00:04:56

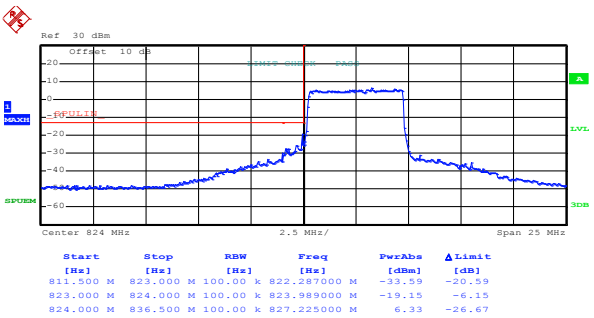
Lowest channel




Date: 27.OCT.2017 00:06:43

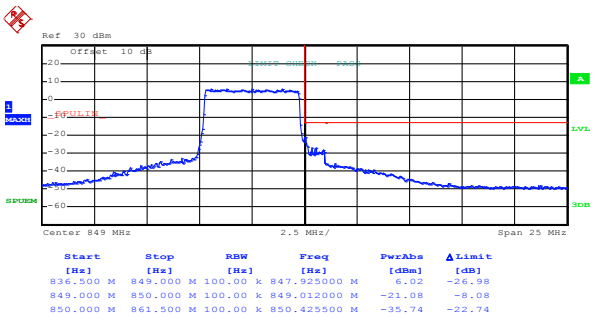
Highest channel

16QAM & RB Size 25




Date: 27.OCT.2017 00:06:24

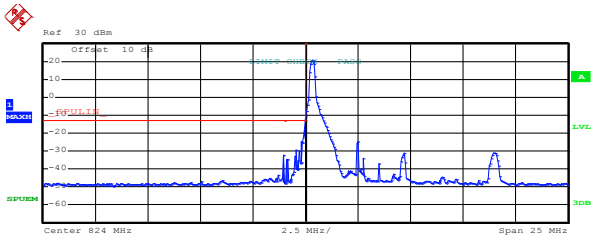
Lowest channel




Date: 27.OCT.2017 00:07:45

Highest channel

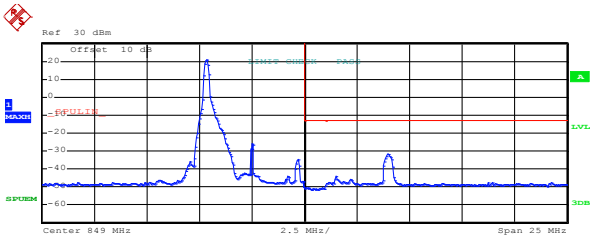
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 811.500 M | 823.000 M | 100.00 k | 822.954000 M | -32.30 | -19.30 |
| 823.000 M | 824.000 M | 30.00 k | 823.998000 M | -17.40 | -4.40 |
| 824.000 M | 836.500 M | 100.00 k | 824.362500 M | 20.59 | -12.41 |

Date: 27.OCT.2017 00:04:42

Lowest channel

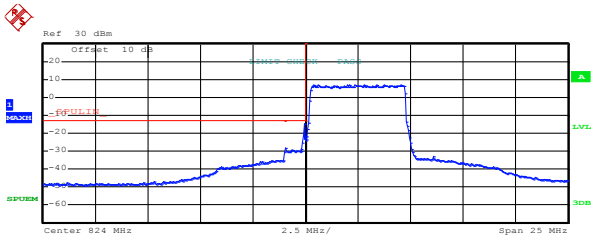



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 836.500 M | 849.000 M | 100.00 k | 844.350000 M | 20.77 | -12.23 |
| 849.000 M | 850.000 M | 30.00 k | 849.225000 M | -49.58 | -36.58 |
| 850.000 M | 861.500 M | 100.00 k | 852.955500 M | -31.74 | -18.74 |

Date: 27.OCT.2017 00:06:38

Highest channel

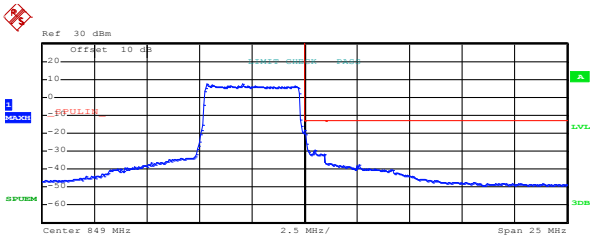
QPSK & RB Size 25




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 811.500 M | 823.000 M | 100.00 k | 822.620500 M | -34.91 | -21.91 |
| 823.000 M | 824.000 M | 100.00 k | 823.997000 M | -14.88 | -1.88 |
| 824.000 M | 836.500 M | 100.00 k | 824.375000 M | 7.11 | -25.89 |

Date: 27.OCT.2017 00:06:19

Lowest channel



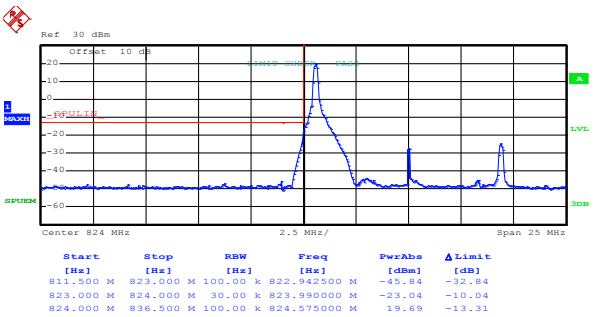

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 836.500 M | 849.000 M | 100.00 k | 846.037500 M | 7.29 | -25.71 |
| 849.000 M | 850.000 M | 100.00 k | 849.012000 M | -18.13 | -5.13 |
| 850.000 M | 861.500 M | 100.00 k | 850.034500 M | -36.64 | -23.64 |

Date: 27.OCT.2017 00:07:40

Highest channel

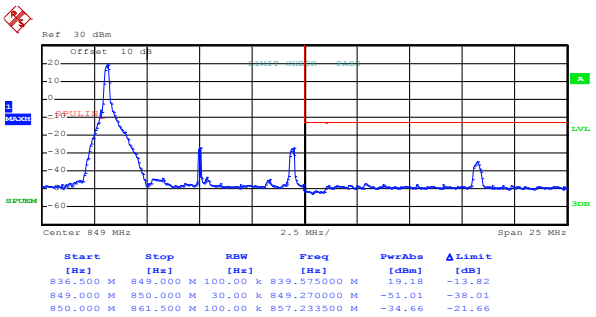
**10 MHz:**

16QAM & RB Size 1




Date: 27.OCT.2017 00:08:22

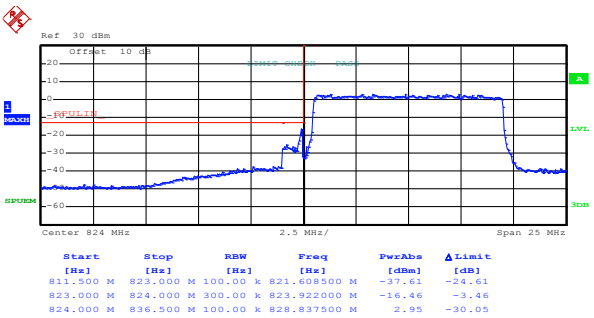
Lowest channel




Date: 27.OCT.2017 00:10:02

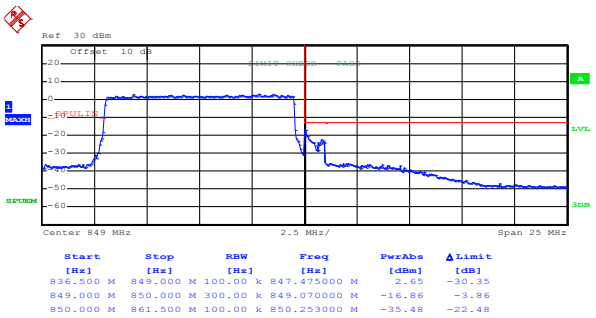
Highest channel

16QAM & RB Size 50




Date: 27.OCT.2017 00:09:28

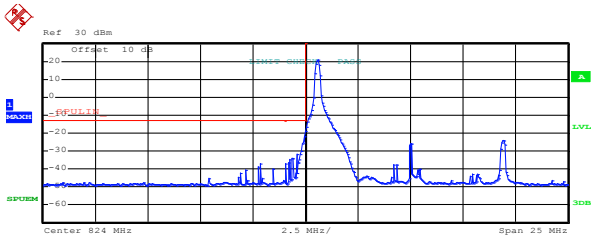
Lowest channel




Date: 27.OCT.2017 00:11:35

Highest channel

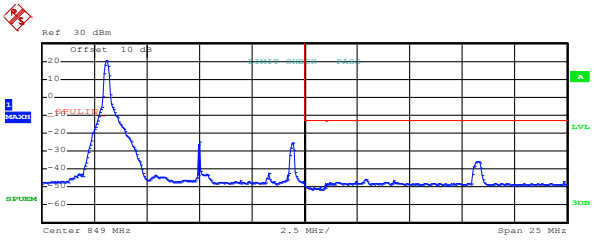
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 811.500 M | 823.000 M | 100.00 k | 821.850000 M | -36.99 | -23.99 |
| 823.000 M | 824.000 M | 30.00 k | 823.970000 M | -21.94 | -8.94 |
| 824.000 M | 836.500 M | 100.00 k | 824.575000 M | 20.71 | -12.29 |

Date: 27.OCT.2017 00:08:17

Lowest channel

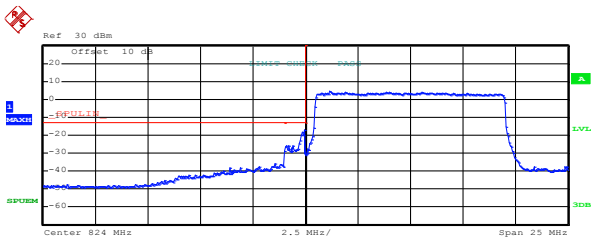



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 836.500 M | 849.000 M | 100.00 k | 839.600000 M | 20.60 | -12.40 |
| 849.000 M | 850.000 M | 30.00 k | 849.004000 M | -48.74 | -35.74 |
| 850.000 M | 861.500 M | 100.00 k | 857.176000 M | -35.65 | -22.65 |

Date: 27.OCT.2017 00:09:56

Highest channel

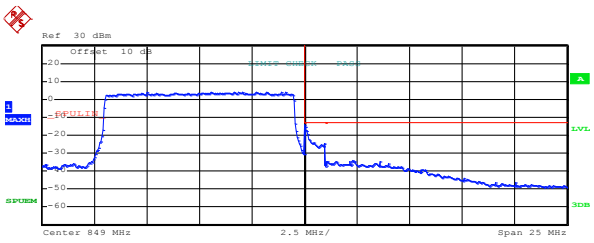
QPSK & RB Size 50




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 811.500 M | 823.000 M | 100.00 k | 822.540000 M | -35.69 | -22.69 |
| 823.000 M | 824.000 M | 300.00 k | 823.990000 M | -16.94 | -3.94 |
| 824.000 M | 836.500 M | 100.00 k | 825.162500 M | 4.44 | -28.56 |

Date: 27.OCT.2017 00:09:22

Lowest channel



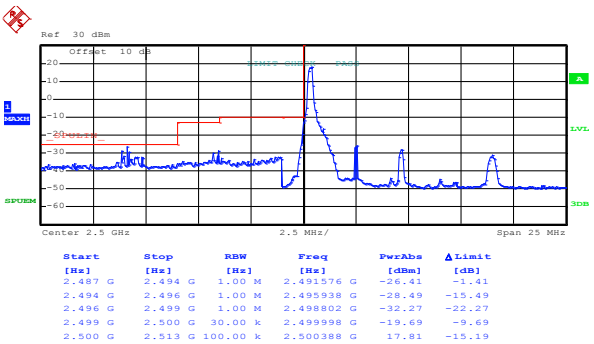

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 836.500 M | 849.000 M | 100.00 k | 844.537500 M | 4.08 | -28.92 |
| 849.000 M | 850.000 M | 300.00 k | 849.011000 M | -14.20 | -1.20 |
| 850.000 M | 861.500 M | 100.00 k | 851.265000 M | -34.01 | -21.01 |

Date: 27.OCT.2017 00:11:28

Highest channel

## LTE band 7, 5 MHz:

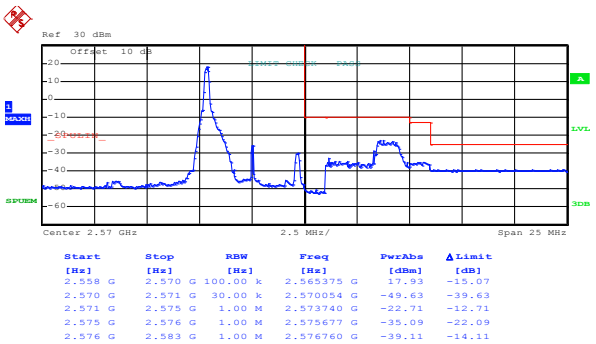
16QAM & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.487 G | 2.494 G | 1.00 M | 2.491576 G | -26.41 | -1.41 |
| 2.494 G | 2.496 G | 1.00 M | 2.495938 G | -28.49 | -15.49 |
| 2.496 G | 2.499 G | 1.00 M | 2.498802 G | -32.27 | -22.27 |
| 2.499 G | 2.500 G | 30.00 k | 2.499998 G | -19.69 | -9.69 |
| 2.500 G | 2.513 G | 100.00 k | 2.500388 G | 17.81 | -15.19 |

Date: 26.OCT.2017 23:15:11

Lowest channel

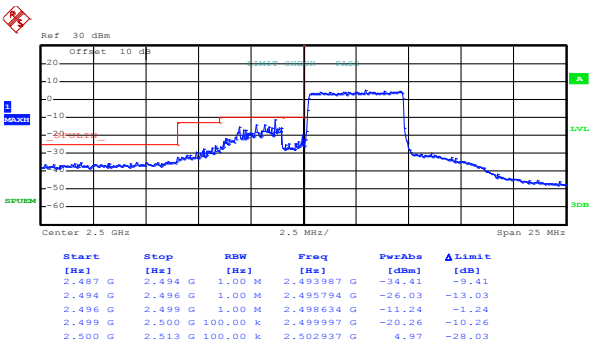



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.558 G | 2.570 G | 100.00 k | 2.565375 G | 17.93 | -15.07 |
| 2.570 G | 2.571 G | 30.00 k | 2.570054 G | -49.63 | -39.63 |
| 2.571 G | 2.575 G | 1.00 M | 2.573740 G | -22.71 | -12.71 |
| 2.575 G | 2.576 G | 1.00 M | 2.575677 G | -35.09 | -22.09 |
| 2.576 G | 2.583 G | 1.00 M | 2.576760 G | -39.11 | -14.11 |

Date: 26.OCT.2017 23:16:58

Highest channel

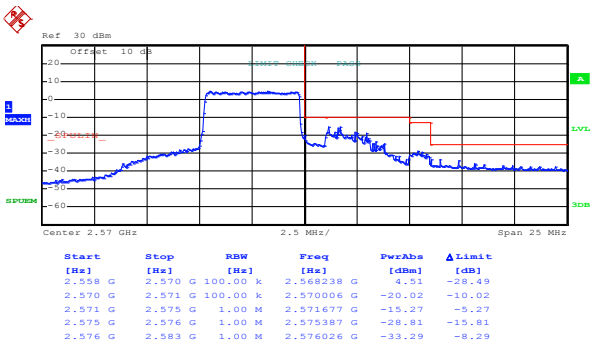
16QAM & RB Size 25




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.487 G | 2.494 G | 1.00 M | 2.493987 G | -34.41 | -9.41 |
| 2.494 G | 2.496 G | 1.00 M | 2.495794 G | -26.03 | -13.03 |
| 2.496 G | 2.499 G | 1.00 M | 2.498634 G | -11.24 | -1.24 |
| 2.499 G | 2.500 G | 100.00 k | 2.499997 G | -20.26 | -10.26 |
| 2.500 G | 2.513 G | 100.00 k | 2.502937 G | 4.97 | -28.03 |

Date: 26.OCT.2017 23:16:31

Lowest channel

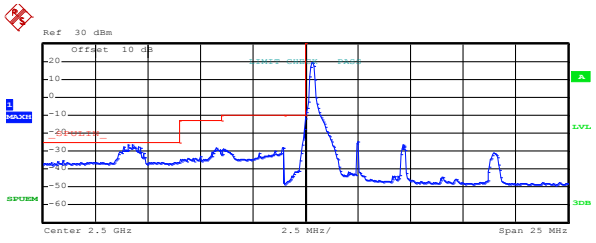



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.558 G | 2.570 G | 100.00 k | 2.568238 G | 4.51 | -28.49 |
| 2.570 G | 2.571 G | 100.00 k | 2.570006 G | -20.02 | -10.02 |
| 2.571 G | 2.575 G | 1.00 M | 2.571677 G | -15.27 | -5.27 |
| 2.575 G | 2.576 G | 1.00 M | 2.575387 G | -28.81 | -15.81 |
| 2.576 G | 2.583 G | 1.00 M | 2.576026 G | -33.29 | -8.29 |

Date: 26.OCT.2017 23:18:36

Highest channel

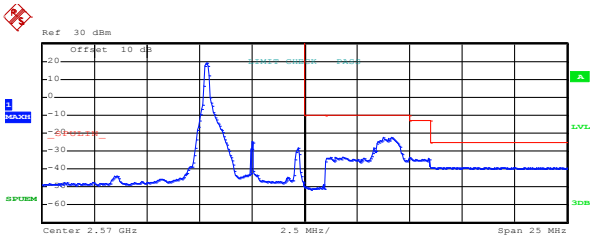
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.487 G | 2.494 G | 1.00 M | 2.491732 G | -26.17 | -1.17 |
| 2.494 G | 2.496 G | 1.00 M | 2.495734 G | -28.12 | -15.12 |
| 2.496 G | 2.499 G | 1.00 M | 2.498880 G | -28.15 | -18.15 |
| 2.499 G | 2.500 G | 30.00 k | 2.499996 G | -17.69 | -7.69 |
| 2.500 G | 2.513 G | 100.00 k | 2.500350 G | 19.42 | -13.58 |

Date: 26.OCT.2017 23:15:05

Lowest channel

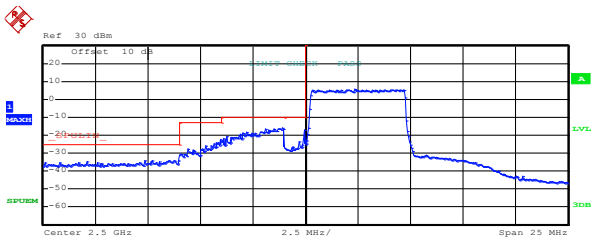



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.558 G | 2.570 G | 100.00 k | 2.565363 G | 19.05 | -13.95 |
| 2.570 G | 2.571 G | 30.00 k | 2.570886 G | -48.42 | -38.42 |
| 2.571 G | 2.575 G | 1.00 M | 2.573732 G | -22.12 | -12.12 |
| 2.575 G | 2.576 G | 1.00 M | 2.575014 G | -33.69 | -20.69 |
| 2.576 G | 2.583 G | 1.00 M | 2.578782 G | -39.02 | -14.02 |

Date: 26.OCT.2017 23:16:53

Highest channel

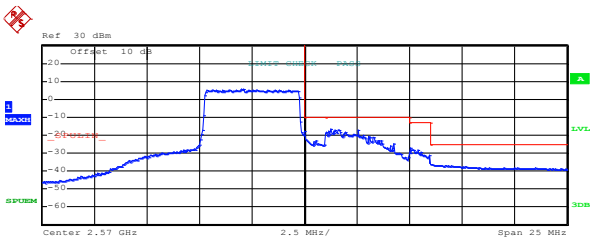
QPSK & RB Size 25




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.487 G | 2.494 G | 1.00 M | 2.493506 G | -33.79 | -8.79 |
| 2.494 G | 2.496 G | 1.00 M | 2.495986 G | -22.28 | -9.28 |
| 2.496 G | 2.499 G | 1.00 M | 2.498874 G | -16.08 | -6.08 |
| 2.499 G | 2.500 G | 100.00 k | 2.499983 G | -17.17 | -7.17 |
| 2.500 G | 2.513 G | 100.00 k | 2.502337 G | 5.50 | -27.50 |

Date: 26.OCT.2017 23:16:25

Lowest channel



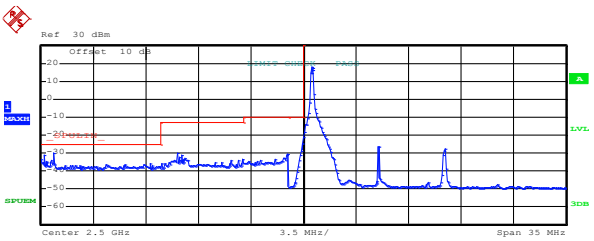

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.558 G | 2.570 G | 100.00 k | 2.566975 G | 5.53 | -27.47 |
| 2.570 G | 2.571 G | 100.00 k | 2.570022 G | -17.75 | -7.75 |
| 2.571 G | 2.575 G | 1.00 M | 2.571194 G | -16.71 | -6.71 |
| 2.575 G | 2.576 G | 1.00 M | 2.575054 G | -27.17 | -14.17 |
| 2.576 G | 2.583 G | 1.00 M | 2.576052 G | -36.55 | -11.55 |

Date: 26.OCT.2017 23:18:29

Highest channel

**10 MHz:**

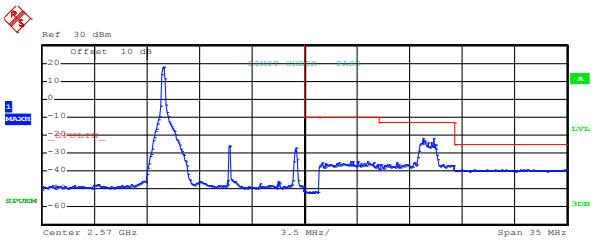
16QAM & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.482 G | 2.490 G | 1.00 M | 2.483356 G | -30.05 | -5.05 |
| 2.490 G | 2.496 G | 1.00 M | 2.491567 G | -30.03 | -17.03 |
| 2.496 G | 2.499 G | 1.00 M | 2.498988 G | -30.52 | -20.52 |
| 2.499 G | 2.500 G | 30.00 k | 2.499987 G | -24.94 | -14.94 |
| 2.500 G | 2.518 G | 100.00 k | 2.500577 G | 17.93 | -15.07 |

Date: 26.OCT.2017 23:19:49

Lowest channel

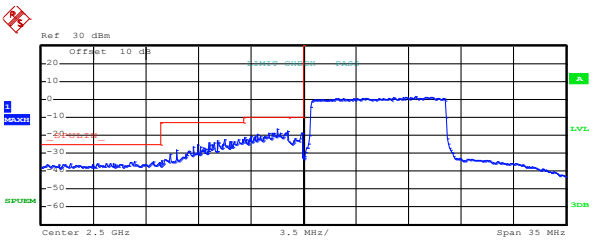



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.553 G | 2.570 G | 100.00 k | 2.560620 G | 18.04 | -14.96 |
| 2.570 G | 2.571 G | 30.00 k | 2.570064 G | -51.29 | -41.29 |
| 2.571 G | 2.575 G | 1.00 M | 2.573244 G | -34.41 | -24.41 |
| 2.575 G | 2.580 G | 1.00 M | 2.578620 G | -21.51 | -8.51 |
| 2.580 G | 2.587 G | 1.00 M | 2.583165 G | -39.16 | -14.16 |

Date: 26.OCT.2017 23:21:19

Highest channel

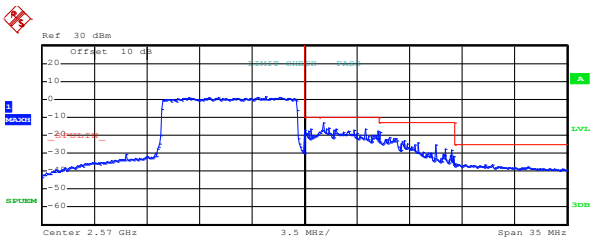
16QAM & RB Size 50




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.482 G | 2.490 G | 1.00 M | 2.489996 G | -34.40 | -9.40 |
| 2.490 G | 2.496 G | 1.00 M | 2.495967 G | -22.05 | -9.05 |
| 2.496 G | 2.499 G | 1.00 M | 2.498229 G | -16.35 | -6.35 |
| 2.499 G | 2.500 G | 300.00 k | 2.499886 G | -18.56 | -8.56 |
| 2.500 G | 2.518 G | 100.00 k | 2.507490 G | 1.77 | -31.23 |

Date: 26.OCT.2017 23:20:56

Lowest channel

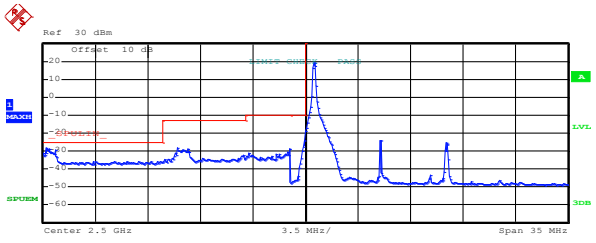



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.553 G | 2.570 G | 100.00 k | 2.567410 G | 1.41 | -31.59 |
| 2.570 G | 2.571 G | 300.00 k | 2.570404 G | -16.43 | -6.43 |
| 2.571 G | 2.575 G | 1.00 M | 2.571244 G | -12.76 | -2.76 |
| 2.575 G | 2.580 G | 1.00 M | 2.575005 G | -17.96 | -4.96 |
| 2.580 G | 2.587 G | 1.00 M | 2.580097 G | -36.01 | -11.01 |

Date: 26.OCT.2017 23:22:26

Highest channel

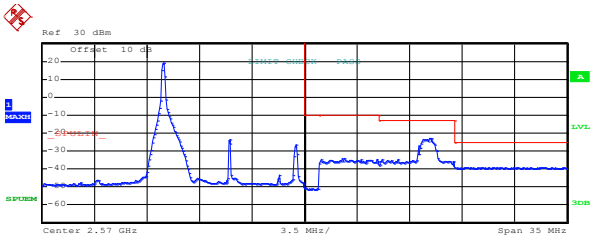
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.482 G | 2.490 G | 1.00 M | 2.482716 G | -28.18 | -3.18 |
| 2.490 G | 2.496 G | 1.00 M | 2.491430 G | -28.29 | -15.29 |
| 2.496 G | 2.499 G | 1.00 M | 2.498940 G | -28.69 | -18.69 |
| 2.499 G | 2.500 G | 30.00 k | 2.499991 G | -23.99 | -13.99 |
| 2.500 G | 2.518 G | 100.00 k | 2.500577 G | 19.16 | -13.84 |

Date: 26.OCT.2017 23:19:43

Lowest channel

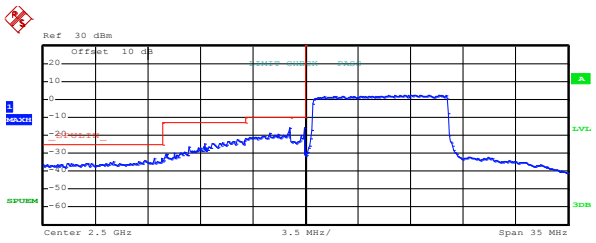



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.553 G | 2.570 G | 100.00 k | 2.560602 G | 19.16 | -13.84 |
| 2.570 G | 2.571 G | 30.00 k | 2.570065 G | -50.31 | -40.31 |
| 2.571 G | 2.575 G | 1.00 M | 2.572672 G | -34.08 | -24.08 |
| 2.575 G | 2.580 G | 1.00 M | 2.578495 G | -22.91 | -9.91 |
| 2.580 G | 2.587 G | 1.00 M | 2.583908 G | -39.08 | -14.08 |

Date: 26.OCT.2017 23:21:14

Highest channel

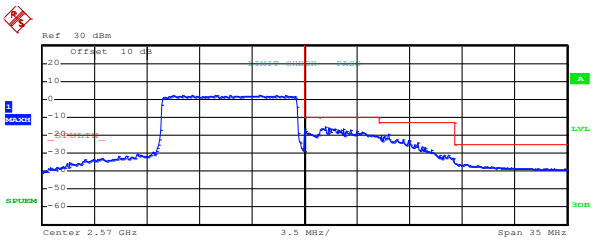
QPSK & RB Size 50




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.482 G | 2.490 G | 1.00 M | 2.490420 G | -32.86 | -7.86 |
| 2.490 G | 2.496 G | 1.00 M | 2.495433 G | -22.11 | -9.11 |
| 2.496 G | 2.499 G | 1.00 M | 2.498925 G | -16.06 | -6.06 |
| 2.499 G | 2.500 G | 300.00 k | 2.499914 G | -16.00 | -6.00 |
| 2.500 G | 2.518 G | 100.00 k | 2.507700 G | 2.50 | -30.50 |

Date: 26.OCT.2017 23:20:50

Lowest channel



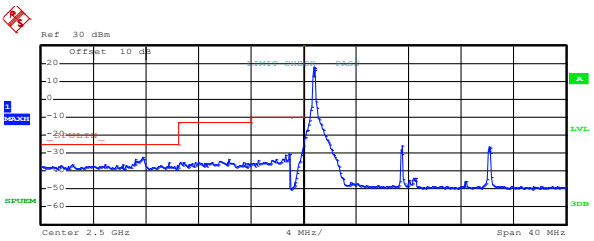

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.553 G | 2.570 G | 100.00 k | 2.568740 G | 2.41 | -30.59 |
| 2.570 G | 2.571 G | 300.00 k | 2.570033 G | -16.50 | -6.50 |
| 2.571 G | 2.575 G | 1.00 M | 2.571424 G | -15.48 | -5.48 |
| 2.575 G | 2.580 G | 1.00 M | 2.575575 G | -19.36 | -6.36 |
| 2.580 G | 2.587 G | 1.00 M | 2.580060 G | -35.21 | -10.21 |

Date: 26.OCT.2017 23:22:21

Highest channel

## 15 MHz:

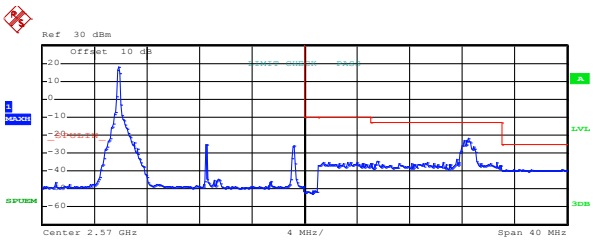
16QAM & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.480 G | 2.490 G | 1.00 M | 2.487749 G | -32.16 | -7.16 |
| 2.490 G | 2.496 G | 1.00 M | 2.494284 G | -33.37 | -20.37 |
| 2.496 G | 2.499 G | 1.00 M | 2.498985 G | -30.34 | -20.34 |
| 2.499 G | 2.500 G | 30.00 k | 2.499962 G | -28.70 | -18.70 |
| 2.500 G | 2.520 G | 100.00 k | 2.500820 G | 17.86 | -15.14 |

Date: 26.OCT.2017 23:23:29

Lowest channel

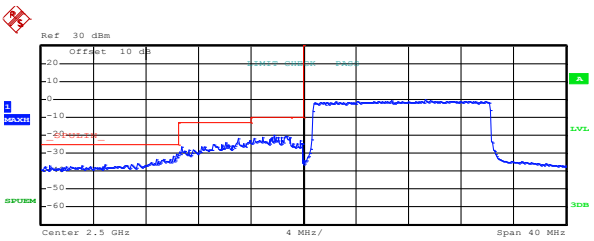



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.550 G | 2.570 G | 100.00 k | 2.555840 G | 17.84 | -15.16 |
| 2.570 G | 2.571 G | 30.00 k | 2.570613 G | -51.19 | -41.19 |
| 2.571 G | 2.575 G | 1.00 M | 2.571824 G | -34.98 | -24.98 |
| 2.575 G | 2.585 G | 1.00 M | 2.582470 G | -22.00 | -9.00 |
| 2.585 G | 2.590 G | 1.00 M | 2.589710 G | -39.36 | -14.36 |

Date: 26.OCT.2017 23:25:21

Highest channel

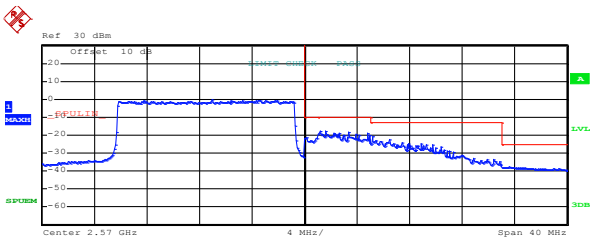
16QAM & RB Size 75




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.480 G | 2.490 G | 1.00 M | 2.490311 G | -30.81 | -5.81 |
| 2.490 G | 2.496 G | 1.00 M | 2.494999 G | -21.47 | -8.47 |
| 2.496 G | 2.499 G | 1.00 M | 2.497791 G | -20.12 | -10.12 |
| 2.499 G | 2.500 G | 300.00 k | 2.499791 G | -23.13 | -13.13 |
| 2.500 G | 2.520 G | 100.00 k | 2.509280 G | -0.20 | -33.20 |

Date: 26.OCT.2017 23:24:58

Lowest channel

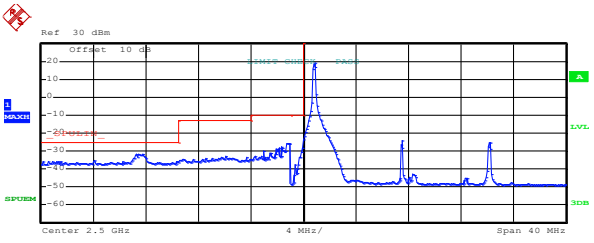



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.550 G | 2.570 G | 100.00 k | 2.562940 G | -0.40 | -33.40 |
| 2.570 G | 2.571 G | 300.00 k | 2.570127 G | -21.26 | -11.26 |
| 2.571 G | 2.575 G | 1.00 M | 2.571568 G | -17.52 | -7.52 |
| 2.575 G | 2.585 G | 1.00 M | 2.575230 G | -20.58 | -7.58 |
| 2.585 G | 2.590 G | 1.00 M | 2.586140 G | -37.72 | -12.72 |

Date: 26.OCT.2017 23:26:41

Highest channel

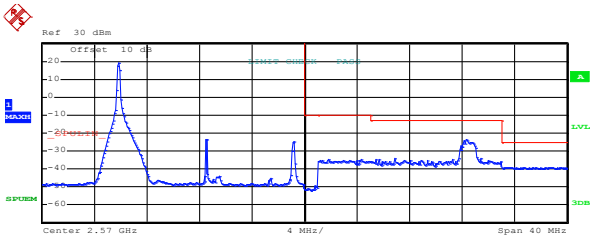
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.480 G | 2.490 G | 1.00 M | 2.487738 G | -31.57 | -6.57 |
| 2.490 G | 2.496 G | 1.00 M | 2.494108 G | -32.69 | -19.69 |
| 2.496 G | 2.499 G | 1.00 M | 2.498757 G | -25.57 | -15.57 |
| 2.499 G | 2.500 G | 30.00 k | 2.499979 G | -28.00 | -18.00 |
| 2.500 G | 2.520 G | 100.00 k | 2.500840 G | 18.99 | -14.01 |

Date: 26.OCT.2017 23:23:24

Lowest channel

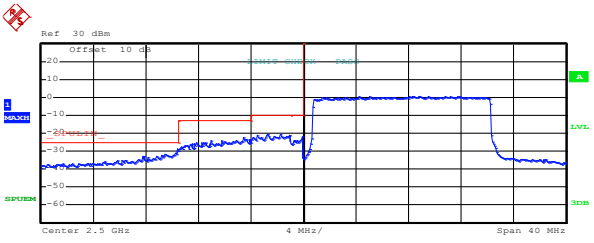



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.550 G | 2.570 G | 100.00 k | 2.555840 G | 19.06 | -13.94 |
| 2.570 G | 2.571 G | 30.00 k | 2.570831 G | -49.48 | -39.48 |
| 2.571 G | 2.575 G | 1.00 M | 2.574284 G | -34.63 | -24.63 |
| 2.575 G | 2.585 G | 1.00 M | 2.582300 G | -23.69 | -10.69 |
| 2.585 G | 2.590 G | 1.00 M | 2.586120 G | -39.13 | -14.13 |

Date: 26.OCT.2017 23:25:16

Highest channel

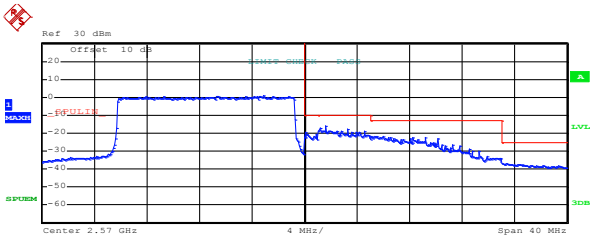
QPSK & RB Size 75




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.480 G | 2.490 G | 1.00 M | 2.490353 G | -29.02 | -4.02 |
| 2.490 G | 2.496 G | 1.00 M | 2.495417 G | -22.59 | -9.59 |
| 2.496 G | 2.499 G | 1.00 M | 2.497296 G | -20.62 | -10.62 |
| 2.499 G | 2.500 G | 300.00 k | 2.499925 G | -21.85 | -11.85 |
| 2.500 G | 2.520 G | 100.00 k | 2.511780 G | 0.73 | -32.27 |

Date: 26.OCT.2017 23:24:53

Lowest channel



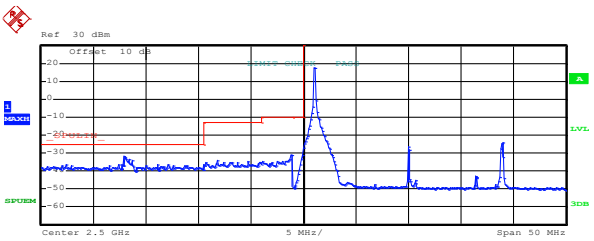

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.550 G | 2.570 G | 100.00 k | 2.566900 G | 0.94 | -32.06 |
| 2.570 G | 2.571 G | 300.00 k | 2.570118 G | -19.62 | -9.62 |
| 2.571 G | 2.575 G | 1.00 M | 2.571616 G | -15.93 | -5.93 |
| 2.575 G | 2.585 G | 1.00 M | 2.575960 G | -21.67 | -8.67 |
| 2.585 G | 2.590 G | 1.00 M | 2.585125 G | -36.55 | -11.55 |

Date: 26.OCT.2017 23:26:37

Highest channel

## 20 MHz:

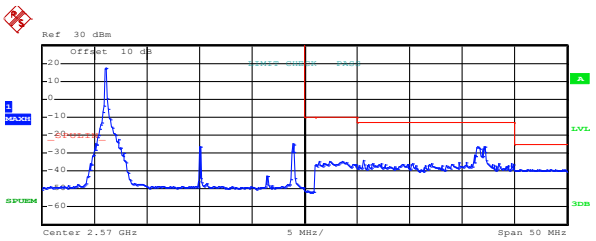
16QAM & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.475 G | 2.490 G | 1.00 M | 2.482905 G | -31.79 | -6.79 |
| 2.490 G | 2.496 G | 1.00 M | 2.491770 G | -34.09 | -21.09 |
| 2.496 G | 2.499 G | 1.00 M | 2.498895 G | -30.97 | -20.97 |
| 2.499 G | 2.500 G | 30.00 k | 2.499981 G | -30.93 | -20.93 |
| 2.500 G | 2.525 G | 100.00 k | 2.501125 G | 17.46 | -15.54 |

Date: 26.OCT.2017 23:27:54

Lowest channel

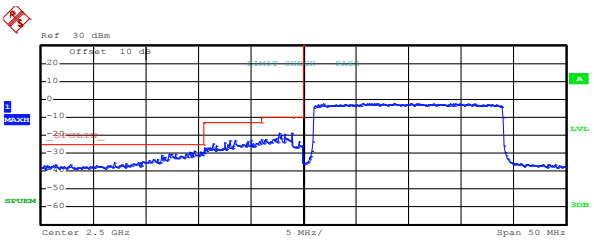



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.545 G | 2.570 G | 100.00 k | 2.551075 G | 17.37 | -15.63 |
| 2.570 G | 2.571 G | 30.00 k | 2.570317 G | -51.22 | -41.22 |
| 2.571 G | 2.575 G | 1.00 M | 2.571372 G | -34.42 | -24.42 |
| 2.575 G | 2.590 G | 1.00 M | 2.587075 G | -26.17 | -13.17 |
| 2.590 G | 2.595 G | 1.00 M | 2.594800 G | -39.18 | -14.18 |

Date: 26.OCT.2017 23:29:34

Highest channel

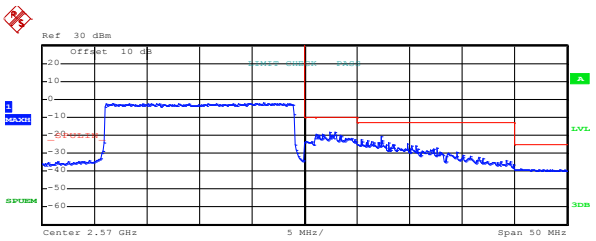
16QAM & RB Size 100




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.475 G | 2.490 G | 1.00 M | 2.489570 G | -28.76 | -3.76 |
| 2.490 G | 2.496 G | 1.00 M | 2.492970 G | -22.77 | -9.77 |
| 2.496 G | 2.499 G | 1.00 M | 2.498931 G | -19.01 | -9.01 |
| 2.499 G | 2.500 G | 300.00 k | 2.499583 G | -23.78 | -13.78 |
| 2.500 G | 2.525 G | 100.00 k | 2.515700 G | -2.32 | -35.32 |

Date: 26.OCT.2017 23:29:09

Lowest channel

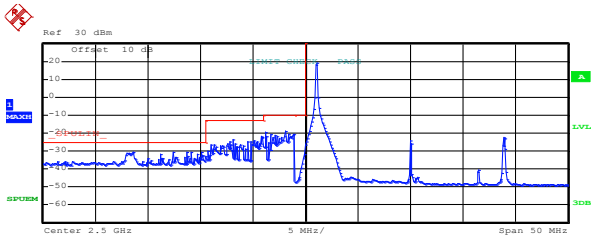



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.545 G | 2.570 G | 100.00 k | 2.566050 G | -2.05 | -35.05 |
| 2.570 G | 2.571 G | 300.00 k | 2.570128 G | -23.23 | -13.23 |
| 2.571 G | 2.575 G | 1.00 M | 2.572368 G | -18.25 | -8.25 |
| 2.575 G | 2.590 G | 1.00 M | 2.577265 G | -20.75 | -7.75 |
| 2.590 G | 2.595 G | 1.00 M | 2.590555 G | -38.81 | -13.81 |

Date: 26.OCT.2017 23:30:38

Highest channel

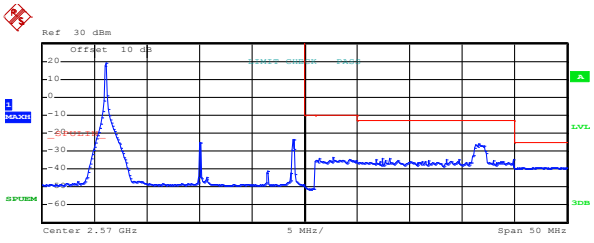
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.475 G | 2.490 G | 1.00 M | 2.487338 G | -30.50 | -5.50 |
| 2.490 G | 2.496 G | 1.00 M | 2.495840 G | -21.81 | -8.81 |
| 2.496 G | 2.499 G | 1.00 M | 2.498091 G | -18.90 | -8.90 |
| 2.499 G | 2.500 G | 30.00 k | 2.499998 G | -31.43 | -21.43 |
| 2.500 G | 2.525 G | 100.00 k | 2.501100 G | 19.12 | -13.88 |

Date: 26.OCT.2017 23:27:49

Lowest channel

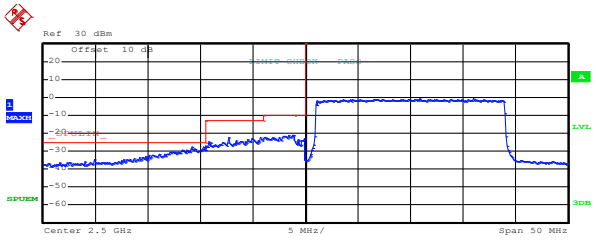



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.545 G | 2.570 G | 100.00 k | 2.551100 G | 19.07 | -13.93 |
| 2.570 G | 2.571 G | 30.00 k | 2.570058 G | -49.81 | -39.81 |
| 2.571 G | 2.575 G | 1.00 M | 2.572712 G | -33.36 | -23.36 |
| 2.575 G | 2.590 G | 1.00 M | 2.586550 G | -26.09 | -13.09 |
| 2.590 G | 2.595 G | 1.00 M | 2.594965 G | -39.16 | -14.16 |

Date: 26.OCT.2017 23:29:27

Highest channel

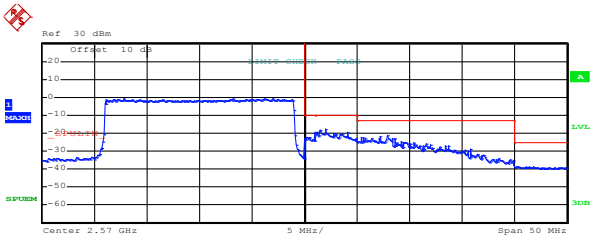
QPSK & RB Size 100




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.475 G | 2.490 G | 1.00 M | 2.489214 G | -27.33 | -2.33 |
| 2.490 G | 2.496 G | 1.00 M | 2.495714 G | -22.17 | -9.17 |
| 2.496 G | 2.499 G | 1.00 M | 2.498955 G | -21.19 | -11.19 |
| 2.499 G | 2.500 G | 300.00 k | 2.499905 G | -22.71 | -12.71 |
| 2.500 G | 2.525 G | 100.00 k | 2.510900 G | -0.83 | -33.83 |

Date: 26.OCT.2017 23:29:03

Lowest channel



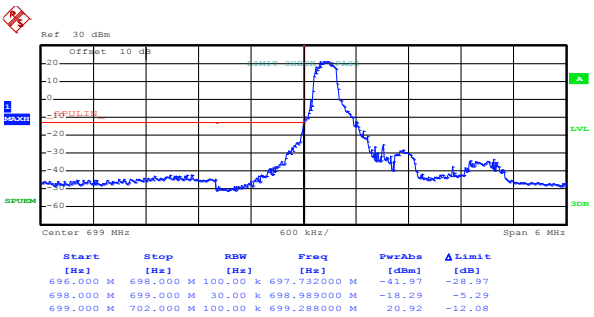

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 2.545 G | 2.570 G | 100.00 k | 2.563150 G | -0.86 | -33.86 |
| 2.570 G | 2.571 G | 300.00 k | 2.570548 G | -22.22 | -12.22 |
| 2.571 G | 2.575 G | 1.00 M | 2.571980 G | -17.82 | -7.82 |
| 2.575 G | 2.590 G | 1.00 M | 2.577850 G | -20.89 | -7.89 |
| 2.590 G | 2.595 G | 1.00 M | 2.590205 G | -38.70 | -13.70 |

Date: 26.OCT.2017 23:30:32

Highest channel

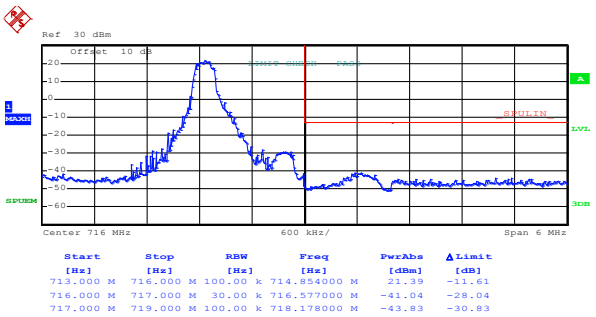
## LTE band 12, 1.4MHz:

16QAM & RB Size 1




Date: 26.OCT.2017 23:41:59

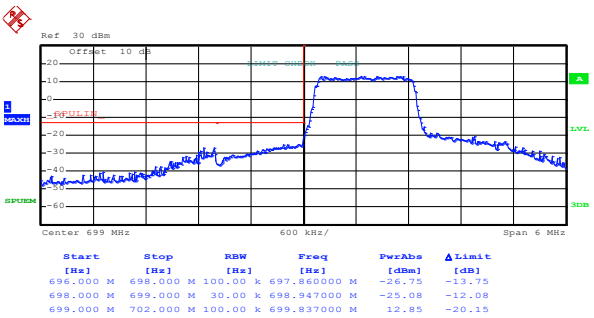
Lowest channel




Date: 26.OCT.2017 23:43:07

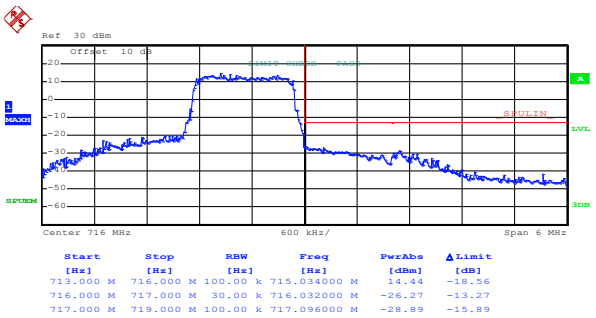
Highest channel

16QAM & RB Size 6




Date: 26.OCT.2017 23:42:46

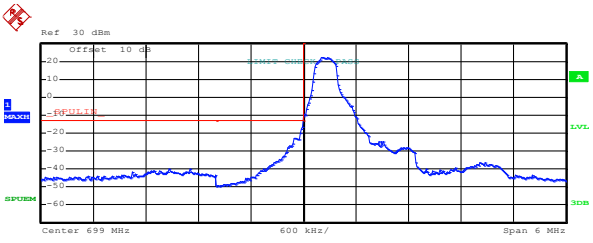
Lowest channel




Date: 26.OCT.2017 23:43:59

Highest channel

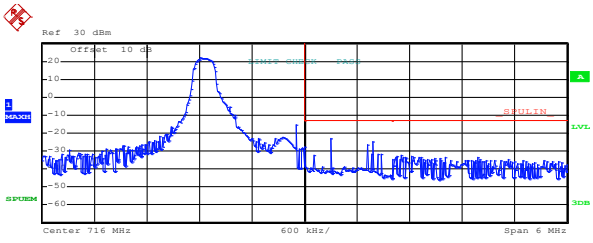
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 696.000 M | 698.000 M | 100.00 k | 697.462000 M | -40.01 | -27.01 |
| 698.000 M | 699.000 M | 30.00 k | 698.995000 M | -16.53 | -3.53 |
| 699.000 M | 702.000 M | 100.00 k | 699.222000 M | 21.89 | -11.11 |

Date: 26.OCT.2017 23:41:54

Lowest channel

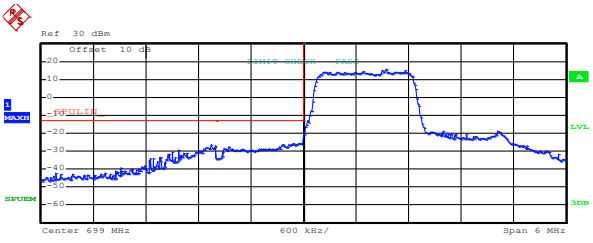



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 713.000 M | 716.000 M | 100.00 k | 714.806000 M | 21.84 | -11.16 |
| 716.000 M | 717.000 M | 30.00 k | 716.299000 M | -23.21 | -10.21 |
| 717.000 M | 719.000 M | 100.00 k | 717.102000 M | -32.50 | -19.50 |

Date: 26.OCT.2017 23:43:02

Highest channel

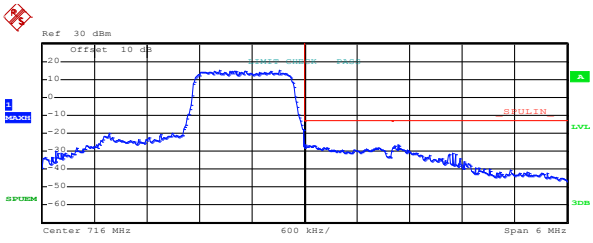
QPSK & RB Size 6




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 696.000 M | 698.000 M | 100.00 k | 697.944000 M | -26.58 | -13.58 |
| 698.000 M | 699.000 M | 30.00 k | 698.961000 M | -25.73 | -12.73 |
| 699.000 M | 702.000 M | 100.00 k | 699.948000 M | 15.57 | -17.43 |

Date: 26.OCT.2017 23:42:42

Lowest channel



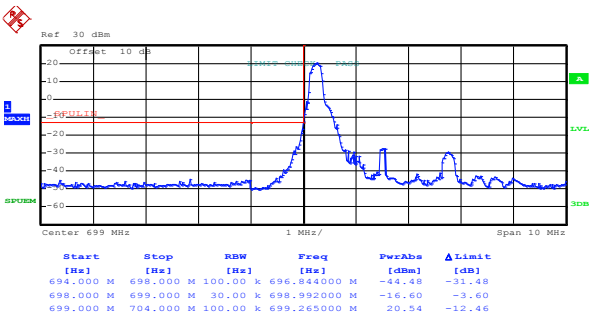

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 713.000 M | 716.000 M | 100.00 k | 715.031000 M | 15.15 | -17.85 |
| 716.000 M | 717.000 M | 30.00 k | 716.011000 M | -26.48 | -13.48 |
| 717.000 M | 719.000 M | 100.00 k | 717.070000 M | -26.16 | -13.16 |

Date: 26.OCT.2017 23:43:55

Highest channel

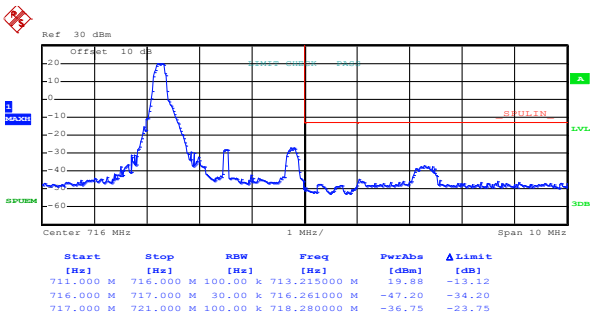
**3 MHz:**

16QAM & RB Size 1




Date: 26.OCT.2017 23:44:45

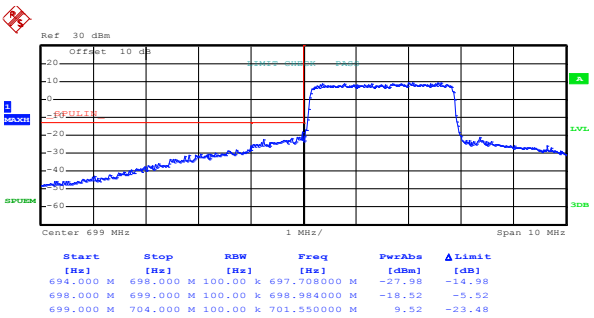
Lowest channel




Date: 26.OCT.2017 23:46:05

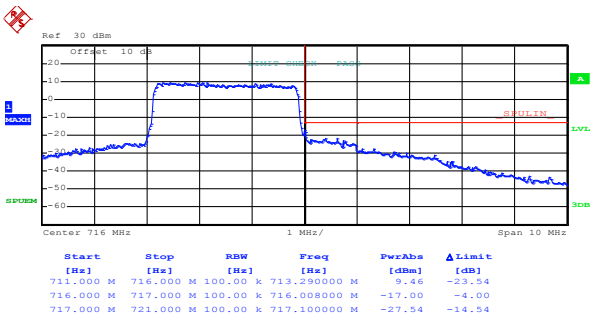
Highest channel

16QAM & RB Size 15




Date: 26.OCT.2017 23:45:44

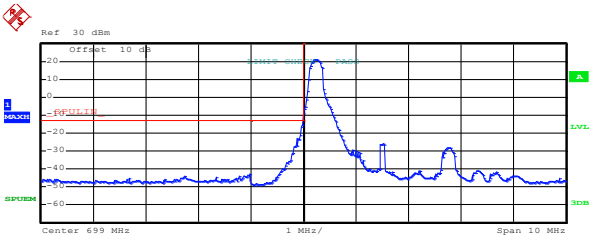
Lowest channel




Date: 26.OCT.2017 23:47:22

Highest channel

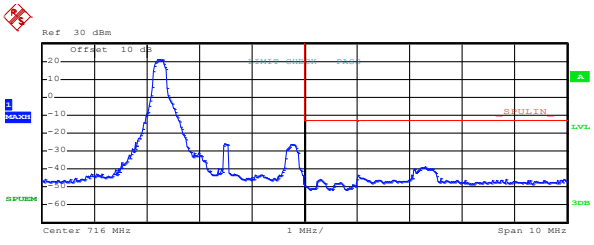
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 694.000 M | 698.000 M | 100.00 k | 697.988000 M | -42.82 | -29.82 |
| 698.000 M | 699.000 M | 30.00 k | 698.978000 M | -15.34 | -2.34 |
| 699.000 M | 704.000 M | 100.00 k | 699.230000 M | 21.08 | -11.92 |

Date: 26.OCT.2017 23:44:41

Lowest channel

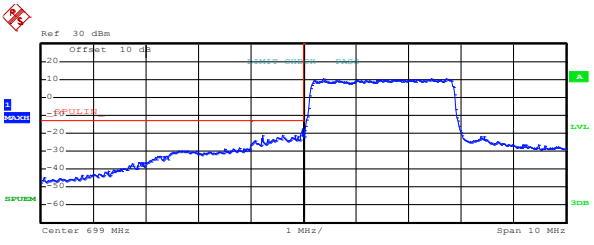



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 711.000 M | 716.000 M | 100.00 k | 713.255000 M | 21.08 | -11.92 |
| 716.000 M | 717.000 M | 30.00 k | 716.293000 M | -45.98 | -32.98 |
| 717.000 M | 721.000 M | 100.00 k | 718.300000 M | -38.91 | -25.91 |

Date: 26.OCT.2017 23:45:58

Highest channel

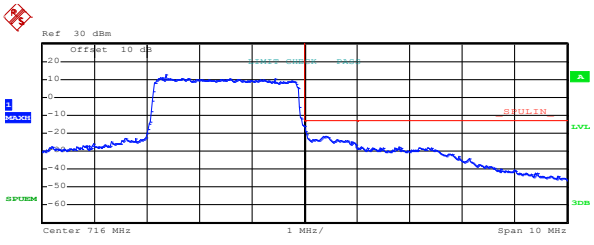
QPSK & RB Size 15




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 694.000 M | 698.000 M | 100.00 k | 697.776000 M | -28.10 | -15.10 |
| 698.000 M | 699.000 M | 100.00 k | 698.997000 M | -17.49 | -4.49 |
| 699.000 M | 704.000 M | 100.00 k | 699.380000 M | 10.33 | -22.67 |

Date: 26.OCT.2017 23:45:39

Lowest channel



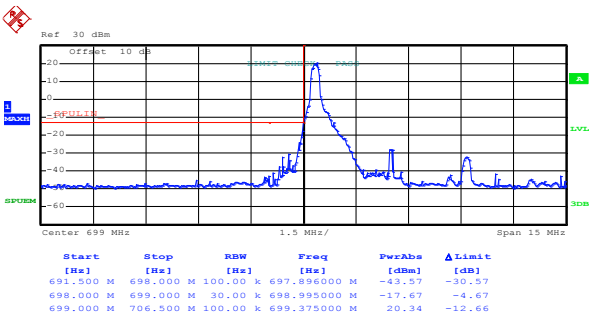

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 711.000 M | 716.000 M | 100.00 k | 713.365000 M | 12.46 | -20.54 |
| 716.000 M | 717.000 M | 100.00 k | 716.009000 M | -15.68 | -2.68 |
| 717.000 M | 721.000 M | 100.00 k | 717.080000 M | -27.41 | -14.41 |

Date: 26.OCT.2017 23:47:16

Highest channel

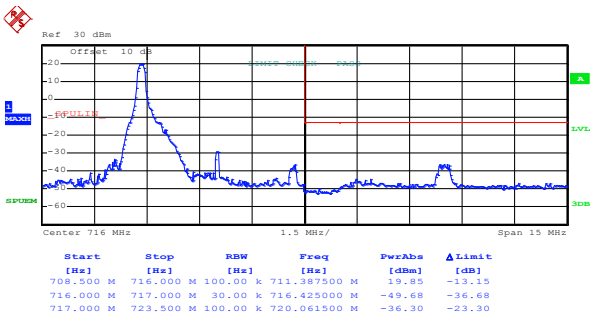
**5 MHz:**

16QAM & RB Size 1




Date: 26.OCT.2017 23:48:16

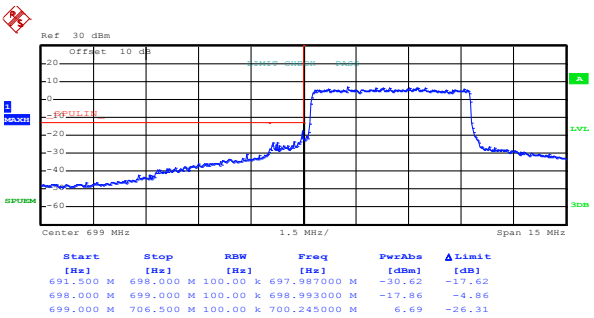
Lowest channel




Date: 26.OCT.2017 23:49:57

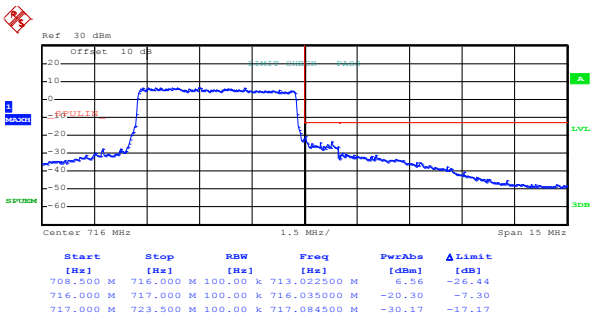
Highest channel

16QAM & RB Size 25




Date: 26.OCT.2017 23:49:34

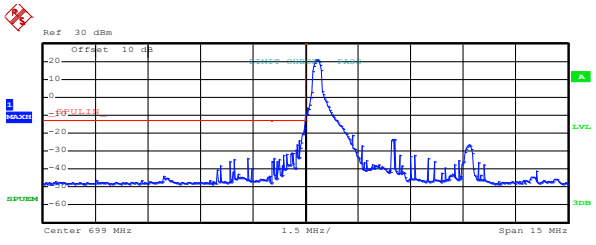
Lowest channel




Date: 26.OCT.2017 23:51:13

Highest channel

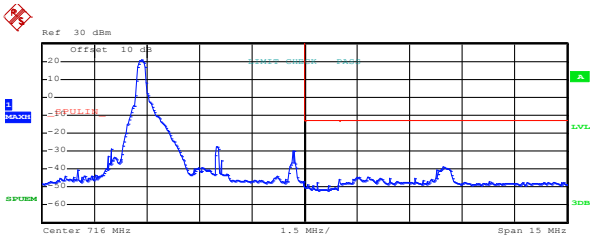
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 691.500 M | 698.000 M | 100.00 k | 697.350000 M | -34.12 | -21.12 |
| 698.000 M | 699.000 M | 30.00 k | 698.981000 M | -17.11 | -4.11 |
| 699.000 M | 706.500 M | 100.00 k | 699.307500 M | 20.99 | -12.01 |

Date: 26.OCT.2017 23:48:10

Lowest channel

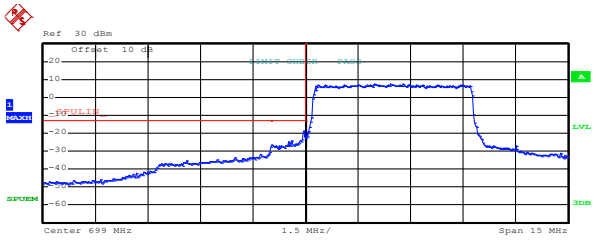



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 708.500 M | 716.000 M | 100.00 k | 711.335000 M | 20.68 | -12.32 |
| 716.000 M | 717.000 M | 30.00 k | 716.370000 M | -47.68 | -34.68 |
| 717.000 M | 723.500 M | 100.00 k | 719.944500 M | -38.93 | -25.93 |

Date: 26.OCT.2017 23:49:48

Highest channel

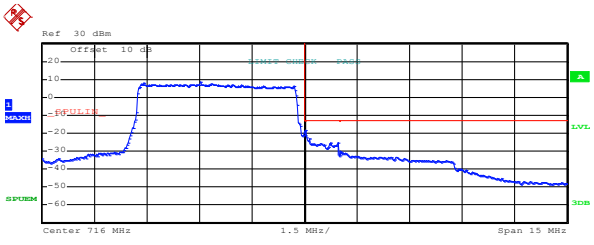
QPSK & RB Size 25




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 691.500 M | 698.000 M | 100.00 k | 697.993500 M | -30.81 | -17.81 |
| 698.000 M | 699.000 M | 100.00 k | 698.952000 M | -18.62 | -5.62 |
| 699.000 M | 706.500 M | 100.00 k | 700.987500 M | 7.43 | -25.57 |

Date: 26.OCT.2017 23:49:28

Lowest channel



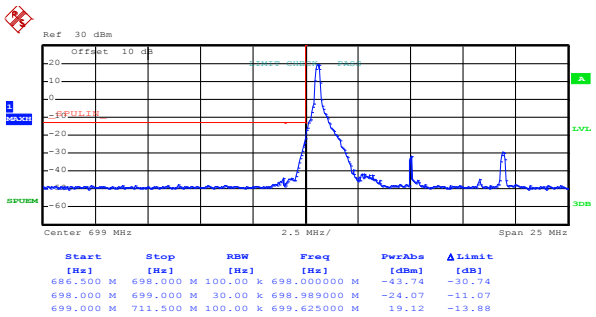

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 708.500 M | 716.000 M | 100.00 k | 713.022500 M | 8.40 | -24.60 |
| 716.000 M | 717.000 M | 100.00 k | 716.018000 M | -17.96 | -4.96 |
| 717.000 M | 723.500 M | 100.00 k | 717.013000 M | -30.21 | -17.21 |

Date: 26.OCT.2017 23:51:06

Highest channel

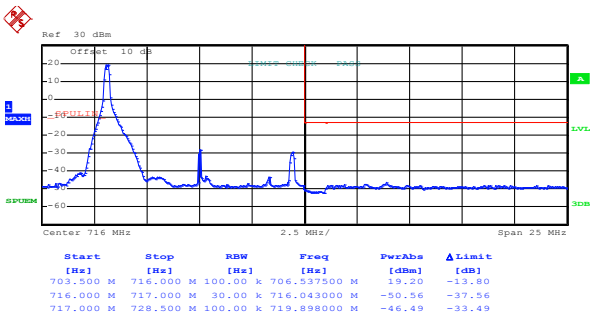
**10 MHz:**

16QAM & RB Size 1




Date: 26.OCT.2017 23:51:52

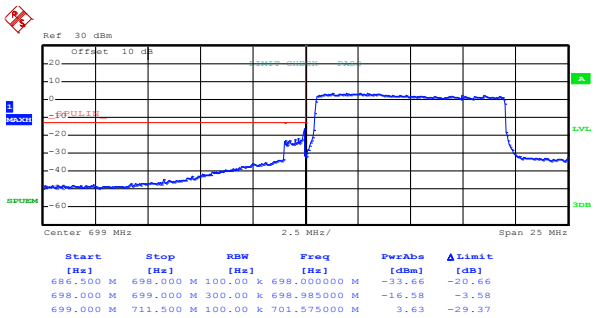
Lowest channel




Date: 26.OCT.2017 23:54:21

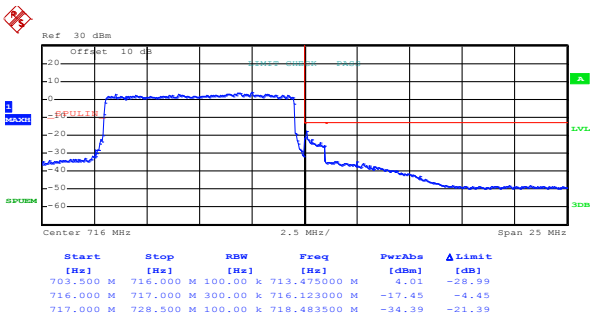
Highest channel

16QAM & RB Size 50




Date: 26.OCT.2017 23:53:08

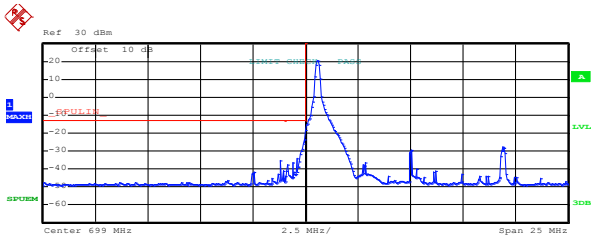
Lowest channel




Date: 26.OCT.2017 23:55:33

Highest channel

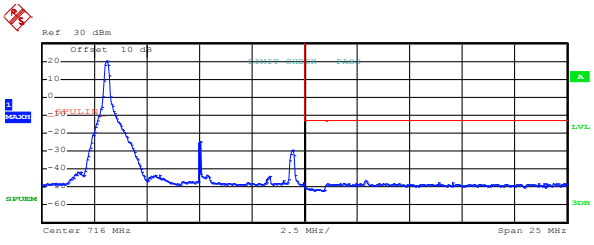
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 686.500 M | 698.000 M | 100.00 k | 697.770000 M | -35.29 | -22.29 |
| 698.000 M | 699.000 M | 30.00 k | 698.998000 M | -23.31 | -10.31 |
| 699.000 M | 711.500 M | 100.00 k | 699.562500 M | 20.29 | -12.71 |

Date: 26.OCT.2017 23:51:47

Lowest channel

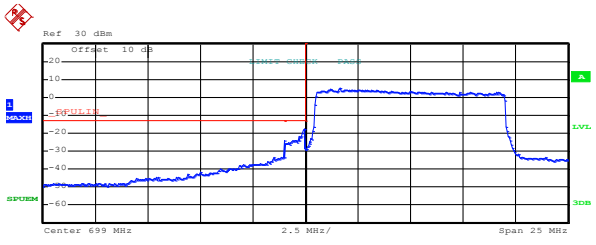



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 703.500 M | 716.000 M | 100.00 k | 706.612500 M | 20.44 | -12.56 |
| 716.000 M | 717.000 M | 30.00 k | 716.020000 M | -50.25 | -37.25 |
| 717.000 M | 728.500 M | 100.00 k | 718.909000 M | -46.45 | -33.45 |

Date: 26.OCT.2017 23:54:13

Highest channel

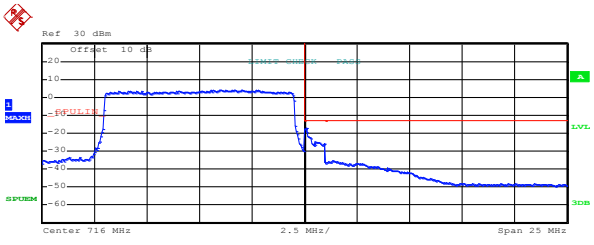
QPSK & RB Size 50




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 686.500 M | 698.000 M | 100.00 k | 697.965500 M | -33.33 | -20.33 |
| 698.000 M | 699.000 M | 300.00 k | 698.960000 M | -17.83 | -4.83 |
| 699.000 M | 711.500 M | 100.00 k | 700.662500 M | 4.89 | -28.11 |

Date: 26.OCT.2017 23:53:00

Lowest channel



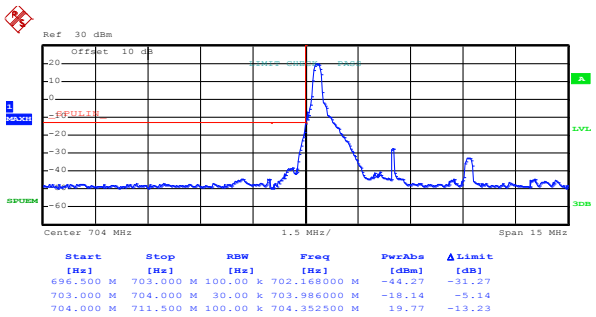

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 703.500 M | 716.000 M | 100.00 k | 712.975000 M | 4.23 | -28.77 |
| 716.000 M | 717.000 M | 300.00 k | 716.094000 M | -17.22 | -4.22 |
| 717.000 M | 728.500 M | 100.00 k | 717.356500 M | -35.12 | -22.12 |

Date: 26.OCT.2017 23:55:28

Highest channel

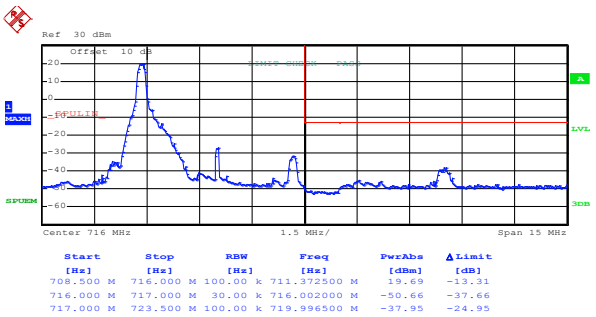
## LTE band 17, 5 MHz:

16QAM & RB Size 1




Date: 26.OCT.2017 23:33:54

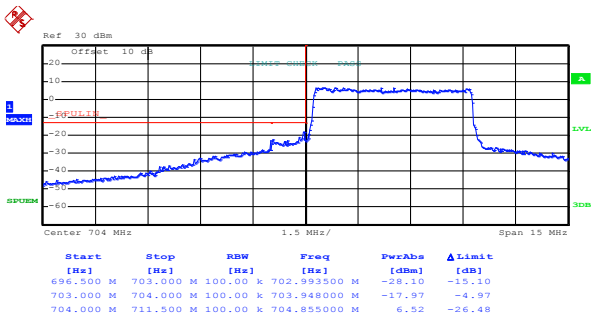
Lowest channel




Date: 26.OCT.2017 23:35:46

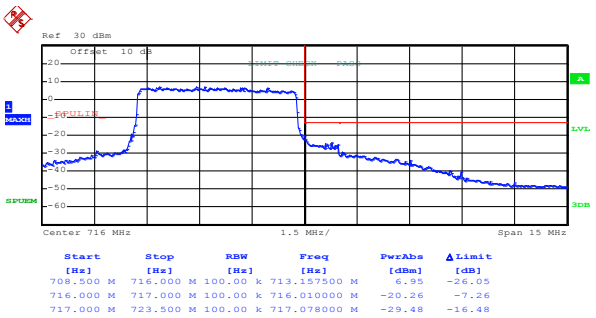
Highest channel

16QAM & RB Size 25




Date: 26.OCT.2017 23:34:57

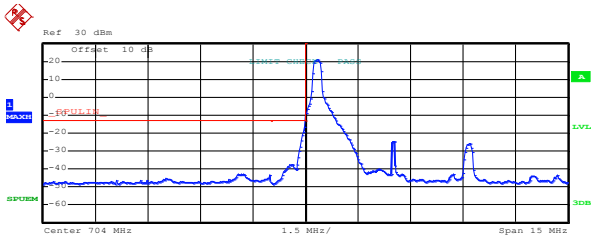
Lowest channel




Date: 26.OCT.2017 23:36:46

Highest channel

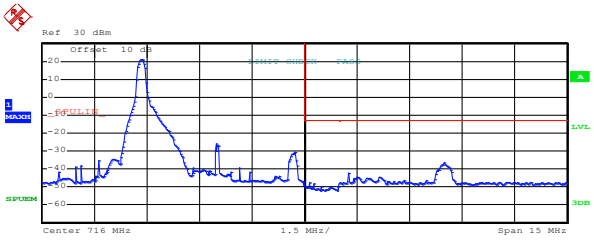
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 696.500 M | 703.000 M | 100.00 k | 702.226500 M | -42.52 | -29.52 |
| 703.000 M | 704.000 M | 30.00 k | 703.999000 M | -16.29 | -3.29 |
| 704.000 M | 711.500 M | 100.00 k | 704.352500 M | 20.95 | -12.05 |

Date: 26.OCT.2017 23:33:46

Lowest channel

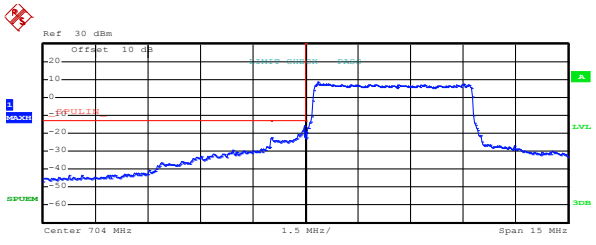



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 708.500 M | 716.000 M | 100.00 k | 711.327500 M | 20.95 | -12.05 |
| 716.000 M | 717.000 M | 30.00 k | 716.160000 M | -47.21 | -34.21 |
| 717.000 M | 723.500 M | 100.00 k | 719.996500 M | -36.50 | -23.50 |

Date: 26.OCT.2017 23:35:42

Highest channel

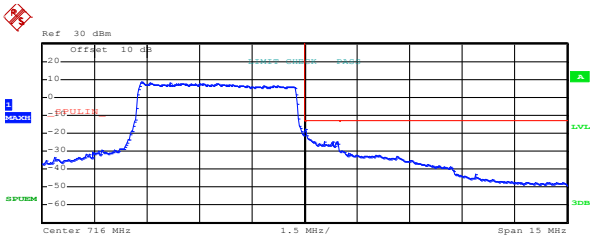
QPSK & RB Size 25




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 696.500 M | 703.000 M | 100.00 k | 703.000000 M | -27.41 | -14.41 |
| 703.000 M | 704.000 M | 100.00 k | 703.989000 M | -15.90 | -2.90 |
| 704.000 M | 711.500 M | 100.00 k | 704.345000 M | 8.89 | -24.11 |

Date: 26.OCT.2017 23:34:53

Lowest channel



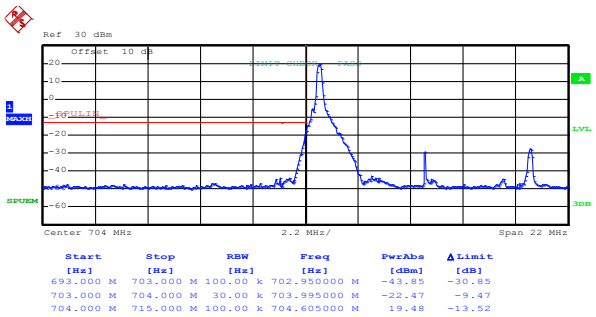

| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 708.500 M | 716.000 M | 100.00 k | 711.357500 M | 8.38 | -24.62 |
| 716.000 M | 717.000 M | 100.00 k | 716.035000 M | -17.56 | -4.56 |
| 717.000 M | 723.500 M | 100.00 k | 717.000000 M | -27.99 | -14.99 |

Date: 26.OCT.2017 23:36:42

Highest channel

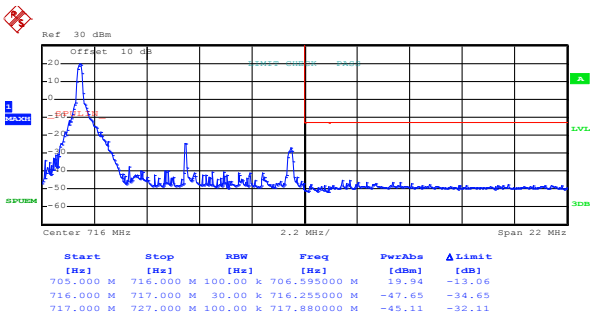
## 10 MHz:

16QAM & RB Size 1




Date: 26.OCT.2017 23:37:32

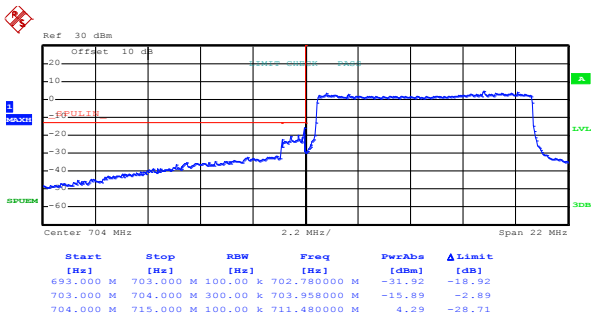
Lowest channel




Date: 26.OCT.2017 23:39:29

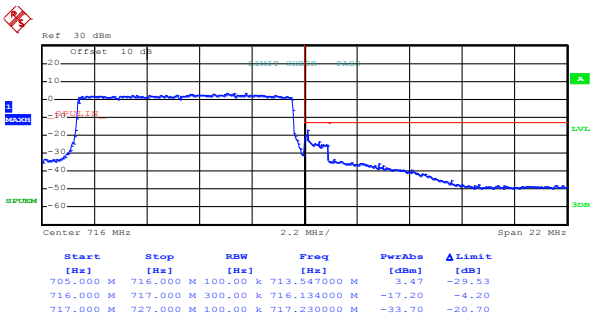
Highest channel

16QAM & RB Size 50




Date: 26.OCT.2017 23:39:06

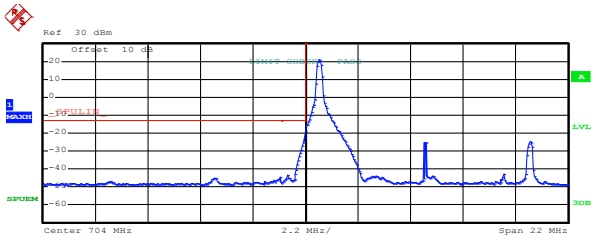
Lowest channel




Date: 26.OCT.2017 23:40:39

Highest channel

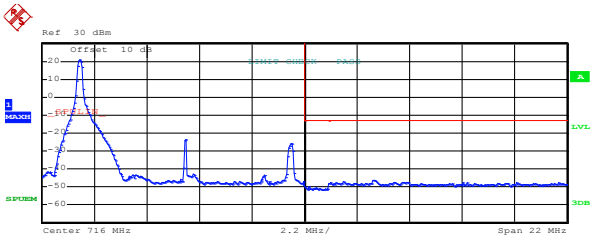
QPSK & RB Size 1




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 693.000 M | 703.000 M | 100.00 k | 703.000000 M | -44.62 | -31.62 |
| 703.000 M | 704.000 M | 30.00 k | 703.990000 M | -22.17 | -9.17 |
| 704.000 M | 715.000 M | 100.00 k | 704.572000 M | 20.89 | -12.11 |

Date: 26.OCT.2017 23:37:27

Lowest channel

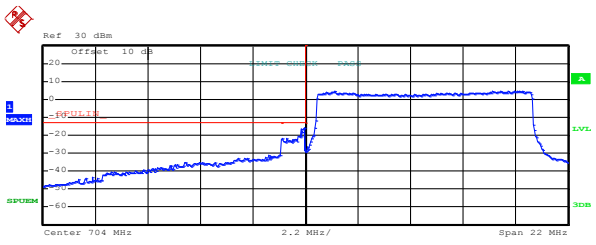



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 705.000 M | 716.000 M | 100.00 k | 706.562000 M | 20.64 | -12.36 |
| 716.000 M | 717.000 M | 30.00 k | 716.159000 M | -49.59 | -36.59 |
| 717.000 M | 727.000 M | 100.00 k | 718.960000 M | -46.14 | -33.14 |

Date: 26.OCT.2017 23:39:24

Highest channel

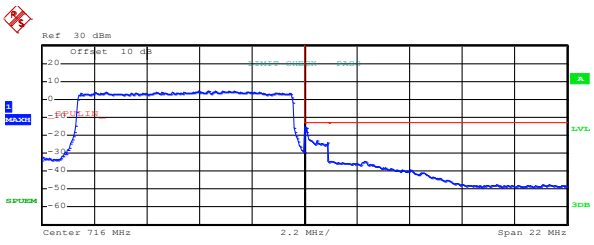
QPSK & RB Size 50




| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 693.000 M | 703.000 M | 100.00 k | 702.900000 M | -30.93 | -17.93 |
| 703.000 M | 704.000 M | 300.00 k | 703.988000 M | -15.64 | -2.64 |
| 704.000 M | 715.000 M | 100.00 k | 711.832000 M | 4.72 | -28.28 |

Date: 26.OCT.2017 23:39:00

Lowest channel

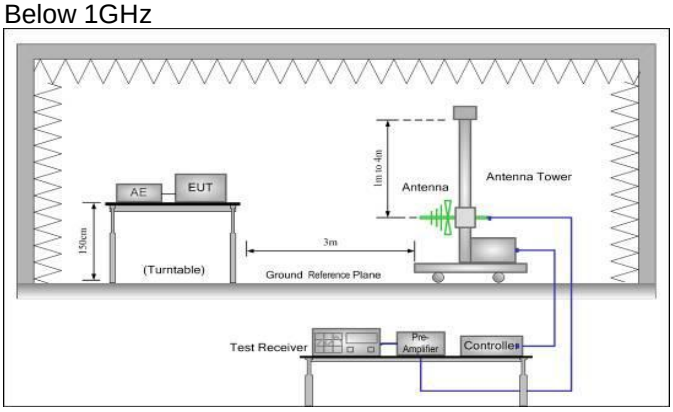
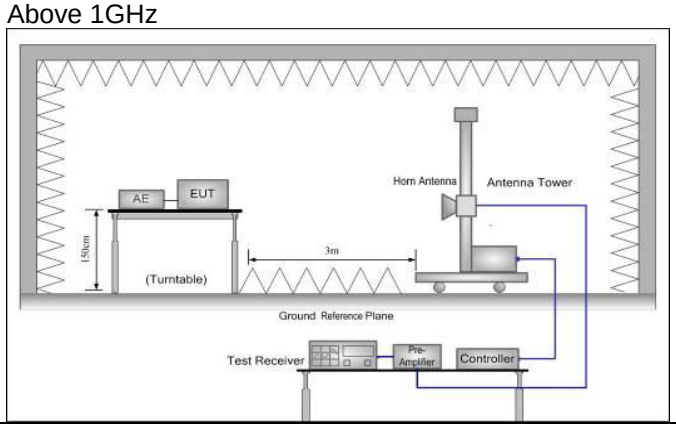



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|---|---|---|---|---|---|
| 705.000 M | 716.000 M | 100.00 k | 711.545000 M | 4.71 | -28.29 |
| 716.000 M | 717.000 M | 300.00 k | 716.007000 M | -15.08 | -2.08 |
| 717.000 M | 727.000 M | 100.00 k | 717.270000 M | -34.21 | -21.21 |

Date: 26.OCT.2017 23:40:35

Highest channel

## 6.5 ERP, EIRP Measurement

| | |
|---|---|
| Test Requirement: | Part 24.232(c), part 27.50(c), part 27.50(d), part 27.50 (h),Part22.913(a) |
| Test Method: | ANSI/TIA-603-D 2010 |
| Limit: | LTE Band 2: 2W EIRP, LTE Band 4: 1W EIRP<br>LTE Band 5: 7W EIRP, LTE Band 7: 2W EIRP,<br>LTE Band 12: 3W ERP, LTE Band 17: 3W EIRP |
| Test setup: | Below 1GHz<br>  <br><br>Above 1GHz<br>  <br> |
| Test Procedure: | 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.<br>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.<br>3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:<br>ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)<br>4. EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:<br>EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)<br>5. The worse case was relating to the conducted output power. |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

**Measurement Data:**

**LTE Band 2**

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1850.70 | 18607 | QPSK | 1.4 | H | V | 22.18 | 33.00 | Pass |
| | | | | | H | 22.32 | | |
| 1850.70 | 18607 | 16QAM | 1.4 | H | V | 22.31 | | |
| | | | | | H | 22.65 | | |
| Middle Channel | | | | | | | | |
| 1880.00 | 18900 | QPSK | 1.4 | H | V | 22.78 | 33.00 | Pass |
| | | | | | H | 22.80 | | |
| 1880.00 | 18900 | 16QAM | 1.4 | H | V | 22.62 | | |
| | | | | | H | 22.77 | | |
| Highest Channel | | | | | | | | |
| 1909.30 | 19193 | QPSK | 1.4 | H | V | 21.34 | 33.00 | Pass |
| | | | | | H | 21.52 | | |
| 1909.30 | 19193 | 16QAM | 1.4 | H | V | 21.35 | | |
| | | | | | H | 21.47 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1851.50 | 18615 | QPSK | 3 | H | V | 22.12 | 33.00 | Pass |
| | | | | | H | 22.85 | | |
| 1851.50 | 18615 | 16QAM | 3 | H | V | 22.71 | | |
| | | | | | H | 22.35 | | |
| Middle Channel | | | | | | | | |
| 1880.00 | 18900 | QPSK | 3 | H | V | 22.41 | 33.00 | Pass |
| | | | | | H | 22.31 | | |
| 1880.00 | 18900 | 16QAM | 3 | H | V | 22.66 | | |
| | | | | | H | 22.21 | | |
| Highest Channel | | | | | | | | |
| 1908.50 | 19185 | QPSK | 3 | H | V | 21.55 | 33.00 | Pass |
| | | | | | H | 21.46 | | |
| 1908.50 | 19185 | 16QAM | 3 | H | V | 21.93 | | |
| | | | | | H | 21.66 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1852.50 | 18625 | QPSK | 5 | H | V | 22.16 | 33.00 | Pass |
| | | | | | H | 22.37 | | |
| 1852.50 | 18625 | 16QAM | 5 | H | V | 22.71 | | |
| | | | | | H | 22.36 | | |
| Middle Channel | | | | | | | | |
| 1880.00 | 18900 | QPSK | 5 | H | V | 22.18 | 33.00 | Pass |
| | | | | | H | 22.85 | | |
| 1880.00 | 18900 | 16QAM | 5 | H | V | 22.45 | | |
| | | | | | H | 22.47 | | |
| Highest Channel | | | | | | | | |
| 1907.50 | 19175 | QPSK | 5 | H | V | 21.39 | 33.00 | Pass |
| | | | | | H | 21.66 | | |
| 1907.50 | 19175 | 16QAM | 5 | H | V | 21.59 | | |
| | | | | | H | 21.41 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1855.00 | 18650 | QPSK | 10 | H | V | 22.56 | 33.00 | Pass |
| | | | | | H | 22.27 | | |
| 1855.00 | 18650 | 16QAM | 10 | H | V | 22.66 | | |
| | | | | | H | 22.45 | | |
| Middle Channel | | | | | | | | |
| 1880.00 | 18900 | QPSK | 10 | H | V | 22.85 | 33.00 | Pass |
| | | | | | H | 22.27 | | |
| 1880.00 | 18900 | 16QAM | 10 | H | V | 22.74 | | |
| | | | | | H | 22.45 | | |
| Highest Channel | | | | | | | | |
| 1905.00 | 19150 | QPSK | 10 | H | V | 21.71 | 33.00 | Pass |
| | | | | | H | 21.02 | | |
| 1905.00 | 19150 | 16QAM | 10 | H | V | 21.66 | | |
| | | | | | H | 21.16 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1857.50 | 18675 | QPSK | 15 | H | V | 22.62 | 33.00 | Pass |
| | | | | | H | 22.27 | | |
| 1857.50 | 18675 | 16QAM | 15 | H | V | 22.41 | | |
| | | | | | H | 22.21 | | |
| Middle Channel | | | | | | | | |
| 1880.00 | 18900 | QPSK | 15 | H | V | 22.47 | 33.00 | Pass |
| | | | | | H | 22.39 | | |
| 1880.00 | 18900 | 16QAM | 15 | H | V | 22.54 | | |
| | | | | | H | 22.37 | | |
| Highest Channel | | | | | | | | |
| 1902.50 | 19125 | QPSK | 15 | H | V | 21.39 | 33.00 | Pass |
| | | | | | H | 21.15 | | |
| 1902.50 | 19125 | 16QAM | 15 | H | V | 21.52 | | |
| | | | | | H | 21.18 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1860.00 | 18700 | QPSK | 20 | H | V | 22.46 | 33.00 | Pass |
| | | | | | H | 22.53 | | |
| 1860.00 | 18700 | 16QAM | 20 | H | V | 22.21 | | |
| | | | | | H | 22.69 | | |
| Middle Channel | | | | | | | | |
| 1880.00 | 18900 | QPSK | 20 | H | V | 22.47 | 33.00 | Pass |
| | | | | | H | 22.69 | | |
| 1880.00 | 18900 | 16QAM | 20 | H | V | 22.54 | | |
| | | | | | H | 22.46 | | |
| Highest Channel | | | | | | | | |
| 1900.00 | 19100 | QPSK | 20 | H | V | 21.48 | 33.00 | Pass |
| | | | | | H | 21.39 | | |
| 1900.00 | 19100 | 16QAM | 20 | H | V | 21.15 | | |
| | | | | | H | 21.27 | | |

**LTE Band 4**

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1710.70 | 19957 | QPSK | 1.4 | H | V | 23.53 | 33.00 | Pass |
| | | | | | H | 25.34 | | |
| 1710.70 | 19957 | 16QAM | 1.4 | H | V | 23.19 | | |
| | | | | | H | 24.44 | | |
| Middle Channel | | | | | | | | |
| 1732.50 | 20175 | QPSK | 1.4 | H | V | 23.44 | 33.00 | Pass |
| | | | | | H | 25.18 | | |
| 1732.50 | 20175 | 16QAM | 1.4 | H | V | 23.35 | | |
| | | | | | H | 25.15 | | |
| Highest Channel | | | | | | | | |
| 1754.30 | 20393 | QPSK | 1.4 | H | V | 21.78 | 33.00 | Pass |
| | | | | | H | 23.53 | | |
| 1754.30 | 20393 | 16QAM | 1.4 | H | V | 21.83 | | |
| | | | | | H | 23.58 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1711.50 | 19965 | QPSK | 3 | H | V | 23.21 | 33.00 | Pass |
| | | | | | H | 25.17 | | |
| 1711.50 | 19965 | 16QAM | 3 | H | V | 23.83 | | |
| | | | | | H | 24.18 | | |
| Middle Channel | | | | | | | | |
| 1732.50 | 20175 | QPSK | 3 | H | V | 23.41 | 33.00 | Pass |
| | | | | | H | 25.19 | | |
| 1732.50 | 20175 | 16QAM | 3 | H | V | 23.51 | | |
| | | | | | H | 25.21 | | |
| Highest Channel | | | | | | | | |
| 1753.50 | 20385 | QPSK | 3 | H | V | 21.34 | 33.00 | Pass |
| | | | | | H | 23.83 | | |
| 1753.50 | 20385 | 16QAM | 3 | H | V | 21.71 | | |
| | | | | | H | 23.81 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1712.50 | 19975 | QPSK | 5 | H | V | 23.71 | 33.00 | Pass |
| | | | | | H | 25.37 | | |
| 1712.50 | 19975 | 16QAM | 5 | H | V | 23.19 | | |
| | | | | | H | 24.18 | | |
| Middle Channel | | | | | | | | |
| 1732.50 | 20175 | QPSK | 5 | H | V | 23.31 | 33.00 | Pass |
| | | | | | H | 25.81 | | |
| 1732.50 | 20175 | 16QAM | 5 | H | V | 23.39 | | |
| | | | | | H | 25.34 | | |
| Highest Channel | | | | | | | | |
| 1752.50 | 20375 | QPSK | 5 | H | V | 21.51 | 33.00 | Pass |
| | | | | | H | 23.39 | | |
| 1752.50 | 20375 | 16QAM | 5 | H | V | 21.81 | | |
| | | | | | H | 23.83 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1715.00 | 20000 | QPSK | 10 | H | V | 23.55 | 33.00 | Pass |
| | | | | | H | 25.66 | | |
| 1715.00 | 20000 | 16QAM | 10 | H | V | 23.63 | | |
| | | | | | H | 24.34 | | |
| Middle Channel | | | | | | | | |
| 1732.50 | 20175 | QPSK | 10 | H | V | 23.45 | 33.00 | Pass |
| | | | | | H | 25.93 | | |
| 1732.50 | 20175 | 16QAM | 10 | H | V | 23.64 | | |
| | | | | | H | 25.64 | | |
| Highest Channel | | | | | | | | |
| 1750.00 | 20350 | QPSK | 10 | H | V | 21.18 | 33.00 | Pass |
| | | | | | H | 23.36 | | |
| 1750.00 | 20350 | 16QAM | 10 | H | V | 21.15 | | |
| | | | | | H | 23.91 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1717.50 | 20025 | QPSK | 15 | H | V | 23.11 | 33.00 | Pass |
| | | | | | H | 25.38 | | |
| 1717.50 | 20025 | 16QAM | 15 | H | V | 23.83 | | |
| | | | | | H | 24.51 | | |
| Middle Channel | | | | | | | | |
| 1732.50 | 20175 | QPSK | 15 | H | V | 23.66 | 33.00 | Pass |
| | | | | | H | 25.43 | | |
| 1732.50 | 20175 | 16QAM | 15 | H | V | 23.39 | | |
| | | | | | H | 25.43 | | |
| Highest Channel | | | | | | | | |
| 1747.50 | 20325 | QPSK | 15 | H | V | 21.43 | 33.00 | Pass |
| | | | | | H | 23.54 | | |
| 1747.50 | 20325 | 16QAM | 15 | H | V | 21.51 | | |
| | | | | | H | 23.64 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 1720.00 | 20050 | QPSK | 20 | H | V | 23.64 | 33.00 | Pass |
| | | | | | H | 25.82 | | |
| 1720.00 | 20050 | 16QAM | 20 | H | V | 23.46 | | |
| | | | | | H | 24.83 | | |
| Middle Channel | | | | | | | | |
| 1732.50 | 20175 | QPSK | 20 | H | V | 23.34 | 33.00 | Pass |
| | | | | | H | 25.81 | | |
| 1732.50 | 20175 | 16QAM | 20 | H | V | 23.63 | | |
| | | | | | H | 25.43 | | |
| Highest Channel | | | | | | | | |
| 1745.00 | 20300 | QPSK | 20 | H | V | 21.54 | 33.00 | Pass |
| | | | | | H | 23.66 | | |
| 1745.00 | 20300 | 16QAM | 20 | H | V | 21.35 | | |
| | | | | | H | 23.34 | | |

**LTE band 5 part**

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 824.70 | 20407 | QPSK | 1.4 | H | V | 14.56 | 33.00 | Pass |
| | | | | | H | 14.70 | | |
| 824.70 | 20407 | 16QAM | 1.4 | H | V | 14.56 | | |
| | | | | | H | 14.77 | | |
| Middle Channel | | | | | | | | |
| 836.50 | 20525 | QPSK | 1.4 | H | V | 14.76 | 33.00 | Pass |
| | | | | | H | 14.74 | | |
| 836.50 | 20525 | 16QAM | 1.4 | H | V | 14.77 | | |
| | | | | | H | 13.73 | | |
| Highest Channel | | | | | | | | |
| 848.30 | 20643 | QPSK | 1.4 | H | V | 13.74 | 33.00 | Pass |
| | | | | | H | 13.76 | | |
| 848.30 | 20643 | 16QAM | 1.4 | H | V | 13.72 | | |
| | | | | | H | 13.71 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 825.50 | 20415 | QPSK | 3 | H | V | 14.82 | 33.00 | Pass |
| | | | | | H | 14.84 | | |
| 825.50 | 20415 | 16QAM | 3 | H | V | 14.73 | | |
| | | | | | H | 14.42 | | |
| Middle Channel | | | | | | | | |
| 836.50 | 20525 | QPSK | 3 | H | V | 14.13 | 33.00 | Pass |
| | | | | | H | 14.37 | | |
| 836.50 | 20525 | 16QAM | 3 | H | V | 14.39 | | |
| | | | | | H | 14.29 | | |
| Highest Channel | | | | | | | | |
| 847.30 | 20635 | QPSK | 3 | H | V | 13.33 | 33.00 | Pass |
| | | | | | H | 13.79 | | |
| 847.30 | 20635 | 16QAM | 3 | H | V | 13.83 | | |
| | | | | | H | 13.38 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 826.50 | 20425 | QPSK | 5 | H | V | 14.27 | 33.00 | Pass |
| | | | | | H | 14.38 | | |
| 826.50 | 20425 | 16QAM | 5 | H | V | 14.42 | | |
| | | | | | H | 14.47 | | |
| Middle Channel | | | | | | | | |
| 836.50 | 20525 | QPSK | 5 | H | V | 14.13 | 33.00 | Pass |
| | | | | | H | 14.93 | | |
| 836.50 | 20525 | 16QAM | 5 | H | V | 14.42 | | |
| | | | | | H | 14.32 | | |
| Highest Channel | | | | | | | | |
| 846.50 | 20625 | QPSK | 5 | H | V | 13.38 | 33.00 | Pass |
| | | | | | H | 13.42 | | |
| 846.50 | 20625 | 16QAM | 5 | H | V | 13.24 | | |
| | | | | | H | 13.18 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 829.00 | 20450 | QPSK | 10 | H | V | 14.13 | 33.00 | Pass |
| | | | | | H | 14.38 | | |
| 829.00 | 20450 | 16QAM | 10 | H | V | 14.17 | | |
| | | | | | H | 14.37 | | |
| Middle Channel | | | | | | | | |
| 836.50 | 20525 | QPSK | 10 | H | V | 14.33 | 33.00 | Pass |
| | | | | | H | 14.83 | | |
| 836.50 | 20525 | 16QAM | 10 | H | V | 14.29 | | |
| | | | | | H | 14.71 | | |
| Highest Channel | | | | | | | | |
| 844.00 | 20600 | QPSK | 10 | H | V | 13.38 | 33.00 | Pass |
| | | | | | H | 13.42 | | |
| 844.00 | 20600 | 16QAM | 10 | H | V | 13.33 | | |
| | | | | | H | 13.44 | | |

**LTE band 7**

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 2502.50 | 20775 | QPSK | 5 | H | V | 17.12 | 33.00 | Pass |
| | | | | | H | 22.25 | | |
| 2502.50 | 20775 | 16QAM | 5 | H | V | 16.84 | | |
| | | | | | H | 21.85 | | |
| Middle Channel | | | | | | | | |
| 2535.00 | 21100 | QPSK | 5 | H | V | 16.94 | 33.00 | Pass |
| | | | | | H | 22.47 | | |
| 2535.00 | 21100 | 16QAM | 5 | H | V | 16.76 | | |
| | | | | | H | 22.22 | | |
| Highest Channel | | | | | | | | |
| 2567.50 | 21425 | QPSK | 5 | H | V | 15.12 | 33.00 | Pass |
| | | | | | H | 20.95 | | |
| 2567.50 | 21425 | 16QAM | 5 | H | V | 15.15 | | |
| | | | | | H | 20.98 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 2505.00 | 20800 | QPSK | 10 | H | V | 17.25 | 33.00 | Pass |
| | | | | | H | 22.53 | | |
| 2505.00 | 20800 | 16QAM | 10 | H | V | 16.39 | | |
| | | | | | H | 21.51 | | |
| Middle Channel | | | | | | | | |
| 2535.00 | 21100 | QPSK | 10 | H | V | 16.36 | 33.00 | Pass |
| | | | | | H | 22.02 | | |
| 2535.00 | 21100 | 16QAM | 10 | H | V | 16.29 | | |
| | | | | | H | 22.15 | | |
| Highest Channel | | | | | | | | |
| 2565.00 | 21400 | QPSK | 10 | H | V | 15.83 | 33.00 | Pass |
| | | | | | H | 20.48 | | |
| 2565.00 | 21400 | 16QAM | 10 | H | V | 15.30 | | |
| | | | | | H | 20.39 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 2507.50 | 20825 | QPSK | 15 | H | V | 17.48 | 33.00 | Pass |
| | | | | | H | 22.17 | | |
| 2507.50 | 20825 | 16QAM | 15 | H | V | 16.86 | | |
| | | | | | H | 21.77 | | |
| Middle Channel | | | | | | | | |
| 2535.00 | 21100 | QPSK | 15 | H | V | 16.15 | 33.00 | Pass |
| | | | | | H | 22.29 | | |
| 2535.00 | 21100 | 16QAM | 15 | H | V | 16.83 | | |
| | | | | | H | 22.15 | | |
| Highest Channel | | | | | | | | |
| 2562.50 | 21375 | QPSK | 15 | H | V | 15.29 | 33.00 | Pass |
| | | | | | H | 20.39 | | |
| 2562.50 | 21375 | 16QAM | 15 | H | V | 15.31 | | |
| | | | | | H | 20.86 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 2510.00 | 20850 | QPSK | 20 | H | V | 17.36 | 33.00 | Pass |
| | | | | | H | 22.55 | | |
| 2510.00 | 20850 | 16QAM | 20 | H | V | 16.29 | | |
| | | | | | H | 21.95 | | |
| Middle Channel | | | | | | | | |
| 2535.00 | 21100 | QPSK | 20 | H | V | 16.43 | 33.00 | Pass |
| | | | | | H | 22.23 | | |
| 2535.00 | 21100 | 16QAM | 20 | H | V | 16.52 | | |
| | | | | | H | 22.19 | | |
| Highest Channel | | | | | | | | |
| 2565.00 | 21350 | QPSK | 20 | H | V | 15.43 | 33.00 | Pass |
| | | | | | H | 20.84 | | |
| 2565.00 | 21350 | 16QAM | 20 | H | V | 15.33 | | |
| | | | | | H | 20.15 | | |

**LTE band 12 part**

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 699.70 | 23017 | QPSK | 1.4 | H | V | 15.19 | 33.00 | Pass |
| | | | | | H | 9.80 | | |
| 699.70 | 23017 | 16QAM | 1.4 | H | V | 14.84 | | |
| | | | | | H | 9.71 | | |
| Middle Channel | | | | | | | | |
| 707.50 | 23095 | QPSK | 1.4 | H | V | 15.11 | 33.00 | Pass |
| | | | | | H | 9.88 | | |
| 707.50 | 23095 | 16QAM | 1.4 | H | V | 15.36 | | |
| | | | | | H | 9.89 | | |
| Highest Channel | | | | | | | | |
| 715.30 | 23173 | QPSK | 1.4 | H | V | 14.36 | 33.00 | Pass |
| | | | | | H | 9.04 | | |
| 715.30 | 23173 | 16QAM | 1.4 | H | V | 14.35 | | |
| | | | | | H | 8.96 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 700.50 | 23025 | QPSK | 3 | H | V | 15.69 | 33.00 | Pass |
| | | | | | H | 9.99 | | |
| 700.50 | 23025 | 16QAM | 3 | H | V | 14.62 | | |
| | | | | | H | 9.51 | | |
| Middle Channel | | | | | | | | |
| 707.50 | 23095 | QPSK | 3 | H | V | 15.41 | 33.00 | Pass |
| | | | | | H | 9.35 | | |
| 707.50 | 23095 | 16QAM | 3 | H | V | 15.78 | | |
| | | | | | H | 9.66 | | |
| Highest Channel | | | | | | | | |
| 714.50 | 23165 | QPSK | 3 | H | V | 14.17 | 33.00 | Pass |
| | | | | | H | 9.69 | | |
| 714.50 | 23165 | 16QAM | 3 | H | V | 14.95 | | |
| | | | | | H | 8.98 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 701.50 | 23035 | QPSK | 5 | H | V | 15.99 | 33.00 | Pass |
| | | | | | H | 9.95 | | |
| 701.50 | 23035 | 16QAM | 5 | H | V | 14.15 | | |
| | | | | | H | 9.93 | | |
| Middle Channel | | | | | | | | |
| 707.50 | 23095 | QPSK | 5 | H | V | 15.78 | 33.00 | Pass |
| | | | | | H | 9.66 | | |
| 707.50 | 23095 | 16QAM | 5 | H | V | 15.35 | | |
| | | | | | H | 9.53 | | |
| Highest Channel | | | | | | | | |
| 713.50 | 23155 | QPSK | 5 | H | V | 14.51 | 33.00 | Pass |
| | | | | | H | 9.17 | | |
| 713.50 | 23155 | 16QAM | 5 | H | V | 14.26 | | |
| | | | | | H | 9.03 | | |

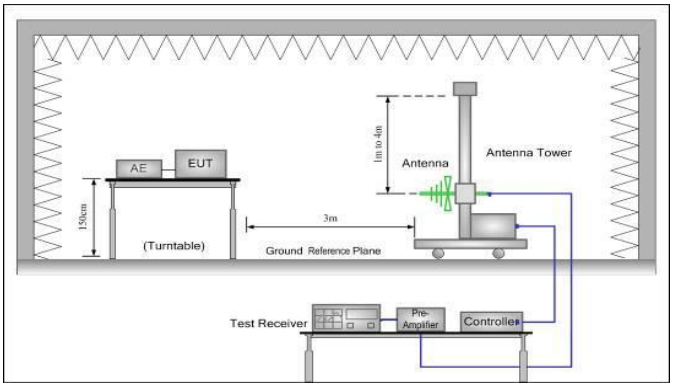
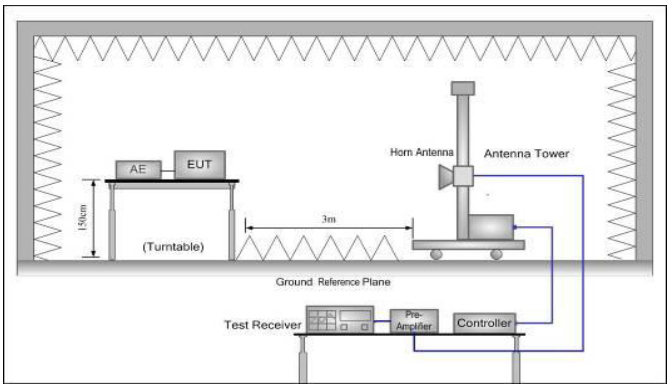
| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 704.00 | 23060 | QPSK | 10 | H | V | 15.95 | 33.00 | Pass |
| | | | | | H | 9.71 | | |
| 704.00 | 23060 | 16QAM | 10 | H | V | 14.35 | | |
| | | | | | H | 9.93 | | |
| Middle Channel | | | | | | | | |
| 707.50 | 23095 | QPSK | 10 | H | V | 15.71 | 33.00 | Pass |
| | | | | | H | 9.69 | | |
| 707.50 | 23095 | 16QAM | 10 | H | V | 15.52 | | |
| | | | | | H | 9.65 | | |
| Highest Channel | | | | | | | | |
| 711.00 | 23130 | QPSK | 10 | H | V | 14.17 | 33.00 | Pass |
| | | | | | H | 9.14 | | |
| 711.00 | 23130 | 16QAM | 10 | H | V | 14.36 | | |
| | | | | | H | 9.01 | | |

**LTE band 17**

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 706.50 | 23755 | QPSK | 5 | H | V | 17.63 | 33.00 | Pass |
| | | | | | H | 11.89 | | |
| 706.50 | 23755 | 16QAM | 5 | H | V | 17.56 | | |
| | | | | | H | 11.79 | | |
| Middle Channel | | | | | | | | |
| 710.00 | 23790 | QPSK | 5 | H | V | 17.31 | 33.00 | Pass |
| | | | | | H | 11.61 | | |
| 710.00 | 23790 | 16QAM | 5 | H | V | 17.44 | | |
| | | | | | H | 11.67 | | |
| Highest Channel | | | | | | | | |
| 713.50 | 23825 | QPSK | 5 | H | V | 15.86 | 33.00 | Pass |
| | | | | | H | 10.06 | | |
| 713.50 | 23825 | 16QAM | 5 | H | V | 15.89 | | |
| | | | | | H | 9.93 | | |

| Frequency (MHz) | UL Channel | Modulation | BW (MHz) | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| Lowest Channel | | | | | | | | |
| 709.00 | 23780 | QPSK | 10 | H | V | 17.71 | 33.00 | Pass |
| | | | | | H | 11.07 | | |
| 709.00 | 23780 | 16QAM | 10 | H | V | 17.91 | | |
| | | | | | H | 11.29 | | |
| Middle Channel | | | | | | | | |
| 710.00 | 23790 | QPSK | 10 | H | V | 17.85 | 33.00 | Pass |
| | | | | | H | 11.91 | | |
| 710.00 | 23790 | 16QAM | 10 | H | V | 17.29 | | |
| | | | | | H | 11.15 | | |
| Highest Channel | | | | | | | | |
| 711.00 | 23800 | QPSK | 10 | H | V | 15.15 | 33.00 | Pass |
| | | | | | H | 10.89 | | |
| 711.00 | 23800 | 16QAM | 10 | H | V | 15.39 | | |
| | | | | | H | 9.21 | | |

## 6.6 Field strength of spurious radiation measurement

| | |
|---|---|
| Test Requirement: | FCC Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h), Part 22.917(a) |
| Test Method: | ANSI/TIA-603-D 2010 |
| Limit: | LTE Band 2, LTE Band 4, LTE Band 5 and LTE Band 17: < -13dBm, LTE Band 7: < -25dBm |
| Test setup: | Below 1GHz<br>  <br><br>Above 1GHz<br>  <br> |
| Test Procedure: | 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.<br>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.<br>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.<br>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.<br>ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB) |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details. |
| Test results: | Passed |

**Measurement Data:**

| LTE Band 2 / 1.4 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3701.40 | Vertical | -31.60 | -13.00 | Pass |
| 5552.10 | V | -40.76 | | |
| 7402.00 | V | -35.81 | | |
| 3701.40 | Horizontal | -32.06 | | |
| 5552.10 | H | -37.56 | | |
| 7402.00 | H | -35.41 | | |
| **Middle** | | | | |
| 3760.00 | Vertical | -34.35 | -13.00 | Pass |
| 5640.00 | V | -40.99 | | |
| 7520.00 | V | -36.74 | | |
| 3760.00 | Horizontal | -32.87 | | |
| 5640.00 | H | -41.13 | | |
| 7520.00 | H | -36.80 | | |
| **Highest** | | | | |
| 3816.60 | Vertical | -32.10 | -13.00 | Pass |
| 5724.90 | V | -40.38 | | |
| 7633.20 | V | -35.15 | | |
| 3816.60 | Horizontal | -36.71 | | |
| 5724.90 | H | -40.50 | | |
| 7633.20 | H | -35.68 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 2 / 3 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3703.00 | Vertical | -31.33 | -13.00 | Pass |
| 5554.50 | V | -40.32 | | |
| 7406.00 | V | -35.43 | | |
| 3703.00 | Horizontal | -32.33 | | |
| 5554.50 | H | -37.74 | | |
| 7406.00 | H | -35.83 | | |
| **Middle** | | | | |
| 3760.00 | Vertical | -34.42 | -13.00 | Pass |
| 5640.00 | V | -40.47 | | |
| 7520.00 | V | -36.50 | | |
| 3760.00 | Horizontal | -32.08 | | |
| 5640.00 | H | -41.21 | | |
| 7520.00 | H | -36.14 | | |
| **Highest** | | | | |
| 3817.00 | Vertical | -32.42 | -13.00 | Pass |
| 5725.50 | V | -40.56 | | |
| 7634.00 | V | -35.46 | | |
| 3817.00 | Horizontal | -36.57 | | |
| 5725.50 | H | -40.08 | | |
| 7634.00 | H | -35.79 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 2 / 5 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3705.00 | Vertical | -31.38 | -13.00 | Pass |
| 5557.50 | V | -40.57 | | |
| 7410.00 | V | -35.76 | | |
| 3705.00 | Horizontal | -32.33 | | |
| 5557.50 | H | -37.74 | | |
| 7410.00 | H | -35.68 | | |
| **Middle** | | | | |
| 3760.00 | Vertical | -34.21 | -13.00 | Pass |
| 5640.00 | V | -40.46 | | |
| 7520.00 | V | -36.14 | | |
| 3760.00 | Horizontal | -32.32 | | |
| 5640.00 | H | -41.38 | | |
| 7520.00 | H | -36.12 | | |
| **Highest** | | | | |
| 3815.00 | Vertical | -32.27 | -13.00 | Pass |
| 5722.50 | V | -40.39 | | |
| 7630.00 | V | -35.11 | | |
| 3815.00 | Horizontal | -36.11 | | |
| 5722.50 | H | -40.12 | | |
| 7630.00 | H | -35.57 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 2 / 10 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3710.00 | Vertical | -31.70 | -13.00 | Pass |
| 5565.00 | V | -40.19 | | |
| 7420.00 | V | -35.22 | | |
| 3710.00 | Horizontal | -32.19 | | |
| 5565.00 | H | -37.12 | | |
| 7420.00 | H | -35.39 | | |
| **Middle** | | | | |
| 3760.00 | Vertical | -34.94 | -13.00 | Pass |
| 5640.00 | V | -40.12 | | |
| 7520.00 | V | -36.16 | | |
| 3760.00 | Horizontal | -32.57 | | |
| 5640.00 | H | -41.42 | | |
| 7520.00 | H | -36.47 | | |
| **Highest** | | | | |
| 3810.00 | Vertical | -32.57 | -13.00 | Pass |
| 5715.00 | V | -40.21 | | |
| 7620.00 | V | -35.19 | | |
| 3810.00 | Horizontal | -36.22 | | |
| 5715.00 | H | -40.13 | | |
| 7620.00 | H | -35.46 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 2 / 15 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3715.00 | Vertical | -31.74 | -13.00 | Pass |
| 5572.50 | V | -40.94 | | |
| 7430.00 | V | -35.12 | | |
| 3715.00 | Horizontal | -32.27 | | |
| 5572.50 | H | -37.39 | | |
| 7430.00 | H | -35.41 | | |
| **Middle** | | | | |
| 3760.00 | Vertical | -34.56 | -13.00 | Pass |
| 5640.00 | V | -40.42 | | |
| 7520.00 | V | -36.21 | | |
| 3760.00 | Horizontal | -32.56 | | |
| 5640.00 | H | -41.42 | | |
| 7520.00 | H | -36.41 | | |
| **Highest** | | | | |
| 3805.00 | Vertical | -32.74 | -13.00 | Pass |
| 5707.50 | V | -40.64 | | |
| 7610.00 | V | -35.46 | | |
| 3805.00 | Horizontal | -36.12 | | |
| 5707.50 | H | -40.15 | | |
| 7610.00 | H | -35.12 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 2 / 20 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3720.00 | Vertical | -31.08 | -13.00 | Pass |
| 5580.00 | V | -40.38 | | |
| 7440.00 | V | -35.42 | | |
| 3720.00 | Horizontal | -32.69 | | |
| 5580.00 | H | -37.69 | | |
| 7440.00 | H | -35.39 | | |
| **Middle** | | | | |
| 3760.00 | Vertical | -34.57 | -13.00 | Pass |
| 5640.00 | V | -40.56 | | |
| 7520.00 | V | -36.41 | | |
| 3760.00 | Horizontal | -32.38 | | |
| 5640.00 | H | -41.12 | | |
| 7520.00 | H | -36.19 | | |
| **Highest** | | | | |
| 3800.00 | Vertical | -32.12 | -13.00 | Pass |
| 5700.00 | V | -40.38 | | |
| 7600.00 | V | -35.94 | | |
| 3800.00 | Horizontal | -36.19 | | |
| 5700.00 | H | -40.11 | | |
| 7600.00 | H | -35.64 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 4 / 1.4 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3421.40 | Vertical | -34.25 | -13.00 | Pass |
| 5132.10 | V | -42.54 | | |
| 6842.80 | V | -36.51 | | |
| 3421.40 | Horizontal | -32.32 | | |
| 5132.10 | H | -39.99 | | |
| 6842.80 | H | -37.15 | | |
| **Middle** | | | | |
| 3465.00 | Vertical | -33.75 | -13.00 | Pass |
| 5197.50 | V | -42.37 | | |
| 6930.00 | V | -34.31 | | |
| 3465.00 | Horizontal | -32.08 | | |
| 5197.50 | H | -40.85 | | |
| 6930.00 | H | -36.53 | | |
| **Highest** | | | | |
| 3508.60 | Vertical | -35.63 | -13.00 | Pass |
| 5262.90 | V | -41.96 | | |
| 7017.20 | V | -36.37 | | |
| 3508.60 | Horizontal | -27.81 | | |
| 5262.90 | H | -40.80 | | |
| 7017.20 | H | -35.54 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 4 / 3 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3423.00 | Vertical | -34.42 | -13.00 | Pass |
| 5134.50 | V | -42.52 | | |
| 6846.00 | V | -36.77 | | |
| 3423.00 | Horizontal | -32.43 | | |
| 5134.50 | H | -39.27 | | |
| 6846.00 | H | -37.12 | | |
| **Middle** | | | | |
| 3465.00 | Vertical | -33.56 | -13.00 | Pass |
| 5197.50 | V | -42.63 | | |
| 6930.00 | V | -34.46 | | |
| 3465.00 | Horizontal | -32.37 | | |
| 5197.50 | H | -40.99 | | |
| 6930.00 | H | -36.43 | | |
| **Highest** | | | | |
| 3507.00 | Vertical | -35.16 | -13.00 | Pass |
| 5260.50 | V | -41.46 | | |
| 7014.00 | V | -36.77 | | |
| 3507.00 | Horizontal | -27.16 | | |
| 5260.50 | H | -40.56 | | |
| 7014.00 | H | -35.16 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 4 / 5 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3425.00 | Vertical | -34.35 | -13.00 | Pass |
| 5137.50 | V | -42.52 | | |
| 6850.00 | V | -36.79 | | |
| 3425.00 | Horizontal | -32.42 | | |
| 5137.50 | H | -39.71 | | |
| 6850.00 | H | -37.27 | | |
| **Middle** | | | | |
| 3465.00 | Vertical | -33.49 | -13.00 | Pass |
| 5197.50 | V | -42.41 | | |
| 6930.00 | V | -34.81 | | |
| 3465.00 | Horizontal | -32.12 | | |
| 5197.50 | H | -40.99 | | |
| 6930.00 | H | -36.27 | | |
| **Highest** | | | | |
| 3505.00 | Vertical | -35.45 | -13.00 | Pass |
| 5257.50 | V | -41.99 | | |
| 7010.00 | V | -36.14 | | |
| 3505.00 | Horizontal | -27.27 | | |
| 5257.50 | H | -40.26 | | |
| 7010.00 | H | -35.27 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 4 / 10 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3430.00 | Vertical | -34.43 | -13.00 | Pass |
| 5145.00 | V | -42.27 | | |
| 6860.00 | V | -36.41 | | |
| 3430.00 | Horizontal | -32.81 | | |
| 5145.00 | H | -39.94 | | |
| 6860.00 | H | -37.12 | | |
| **Middle** | | | | |
| 3465.00 | Vertical | -33.77 | -13.00 | Pass |
| 5197.50 | V | -42.41 | | |
| 6930.00 | V | -34.43 | | |
| 3465.00 | Horizontal | -32.49 | | |
| 5197.50 | H | -40.41 | | |
| 6930.00 | H | -36.49 | | |
| **Highest** | | | | |
| 3500.00 | Vertical | -35.71 | -13.00 | Pass |
| 5250.00 | V | -41.63 | | |
| 7000.00 | V | -36.45 | | |
| 3500.00 | Horizontal | -27.81 | | |
| 5250.00 | H | -40.92 | | |
| 7000.00 | H | -35.12 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 4 / 15 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3435.00 | Vertical | -34.27 | -13.00 | Pass |
| 5152.50 | V | -42.41 | | |
| 6870.00 | V | -36.54 | | |
| 3435.00 | Horizontal | -32.94 | | |
| 5152.50 | H | -39.92 | | |
| 6870.00 | H | -37.15 | | |
| **Middle** | | | | |
| 3465.00 | Vertical | -33.77 | -13.00 | Pass |
| 5197.50 | V | -42.27 | | |
| 6930.00 | V | -34.27 | | |
| 3465.00 | Horizontal | -32.81 | | |
| 5197.50 | H | -40.54 | | |
| 6930.00 | H | -36.99 | | |
| **Highest** | | | | |
| 3495.00 | Vertical | -35.37 | -13.00 | Pass |
| 5242.50 | V | -41.43 | | |
| 6990.00 | V | -36.92 | | |
| 3495.00 | Horizontal | -27.27 | | |
| 5242.50 | H | -40.43 | | |
| 6990.00 | H | -35.22 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 4 / 20 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 3440.00 | Vertical | -34.46 | -13.00 | Pass |
| 5160.00 | V | -42.15 | | |
| 6880.00 | V | -36.16 | | |
| 3440.00 | Horizontal | -32.37 | | |
| 5160.00 | H | -39.54 | | |
| 6880.00 | H | -37.49 | | |
| **Middle** | | | | |
| 3465.00 | Vertical | -33.56 | -13.00 | Pass |
| 5197.50 | V | -42.42 | | |
| 6930.00 | V | -34.27 | | |
| 3465.00 | Horizontal | -32.84 | | |
| 5197.50 | H | -40.19 | | |
| 6930.00 | H | -36.45 | | |
| **Highest** | | | | |
| 3490.00 | Vertical | -35.16 | -13.00 | Pass |
| 5235.00 | V | -41.77 | | |
| 6980.00 | V | -36.96 | | |
| 3490.00 | Horizontal | -27.12 | | |
| 5235.00 | H | -40.35 | | |
| 6980.00 | H | -35.37 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 5 / 1.4 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1649.40 | Vertical | -25.72 | -13.00 | Pass |
| 2474.10 | V | -52.59 | | |
| 3298.80 | V | -39.44 | | |
| 1649.40 | Horizontal | -29.98 | | |
| 2474.10 | H | -51.39 | | |
| 3298.80 | H | -40.09 | | |
| **Middle** | | | | |
| 1673.00 | Vertical | -29.18 | -13.00 | Pass |
| 2509.50 | V | -46.99 | | |
| 3346.00 | V | -36.75 | | |
| 1673.00 | Horizontal | -30.09 | | |
| 2509.50 | H | -42.91 | | |
| 3346.00 | H | -36.62 | | |
| Highest | | | | |
| 1696.60 | Vertical | -31.59 | -13.00 | Pass |
| 2544.90 | V | -47.32 | | |
| 3393.20 | V | -38.16 | | |
| 1696.60 | Horizontal | -28.97 | | |
| 2544.90 | H | -40.55 | | |
| 3393.20 | H | -37.42 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 5 / 3 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1651.00 | Vertical | -25.25 | -13.00 | Pass |
| 2476.50 | V | -52.76 | | |
| 3302.00 | V | -39.97 | | |
| 1651.00 | Horizontal | -29.41 | | |
| 2476.50 | H | -51.47 | | |
| 3302.00 | H | -40.16 | | |
| **Middle** | | | | |
| 1673.00 | Vertical | -29.34 | -13.00 | Pass |
| 2509.50 | V | -46.33 | | |
| 3346.00 | V | -36.37 | | |
| 1673.00 | Horizontal | -30.71 | | |
| 2509.50 | H | -42.76 | | |
| 3346.00 | H | -36.95 | | |
| **Highest** | | | | |
| 1695.00 | Vertical | -31.97 | -13.00 | Pass |
| 2542.50 | V | -47.34 | | |
| 3390.00 | V | -38.61 | | |
| 1695.00 | Horizontal | -28.94 | | |
| 2542.50 | H | -40.44 | | |
| 3390.00 | H | -37.37 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 5 / 5 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1653.00 | Vertical | -25.08 | -13.00 | Pass |
| 2479.50 | V | -52.11 | | |
| 3306.00 | V | -39.32 | | |
| 1653.00 | Horizontal | -29.99 | | |
| 2479.50 | H | -51.18 | | |
| 3306.00 | H | -40.35 | | |
| **Middle** | | | | |
| 1673.00 | Vertical | -29.17 | -13.00 | Pass |
| 2509.50 | V | -46.88 | | |
| 3346.00 | V | -36.95 | | |
| 1673.00 | Horizontal | -30.44 | | |
| 2509.50 | H | -42.85 | | |
| 3346.00 | H | -36.89 | | |
| **Highest** | | | | |
| 1693.00 | Vertical | -31.62 | -13.00 | Pass |
| 2539.50 | V | -47.89 | | |
| 3386.00 | V | -38.99 | | |
| 1693.00 | Horizontal | -28.97 | | |
| 2539.50 | H | -40.33 | | |
| 3386.00 | H | -37.56 | | |

Note:

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 5 / 10 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1658.00 | Vertical | -25.11 | -13.00 | Pass |
| 2487.00 | V | -52.41 | | |
| 3316.00 | V | -39.12 | | |
| 1658.00 | Horizontal | -29.88 | | |
| 2487.00 | H | -51.89 | | |
| 3316.00 | H | -40.16 | | |
| **Middle** | | | | |
| 1673.00 | Vertical | -29.59 | -13.00 | Pass |
| 2509.50 | V | -46.34 | | |
| 3346.00 | V | -36.99 | | |
| 1673.00 | Horizontal | -30.64 | | |
| 2509.50 | H | -42.32 | | |
| 3346.00 | H | -36.85 | | |
| **Highest** | | | | |
| 1688.00 | Vertical | -31.89 | -13.00 | Pass |
| 2532.00 | V | -47.88 | | |
| 3376.00 | V | -38.62 | | |
| 1688.00 | Horizontal | -28.85 | | |
| 2532.00 | H | -40.17 | | |
| 3376.00 | H | -37.34 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 7 / 5 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 5005.00 | Vertical | -41.84 | -25.00 | Pass |
| 7507.50 | V | -35.82 | | |
| 10010.00 | V | -34.18 | | |
| 5005.00 | Horizontal | -42.75 | | |
| 7507.50 | H | -36.25 | | |
| 10010.00 | H | -33.38 | | |
| **Middle** | | | | |
| 5070.00 | Vertical | -42.62 | -25.00 | Pass |
| 7605.00 | V | -36.70 | | |
| 10140.00 | V | -32.04 | | |
| 5070.00 | Horizontal | -41.93 | | |
| 7605.00 | H | -36.64 | | |
| 10140.00 | H | -32.06 | | |
| **Highest** | | | | |
| 5135.00 | Vertical | -40.50 | -25.00 | Pass |
| 7702.50 | V | -34.58 | | |
| 10270.00 | V | -32.29 | | |
| 5135.00 | Horizontal | -41.16 | | |
| 7702.50 | H | -36.35 | | |
| 10270.00 | H | -32.41 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 7 / 10 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 5010.00 | Vertical | -41.04 | -25.00 | Pass |
| 7515.00 | V | -35.26 | | |
| 10020.00 | V | -34.73 | | |
| 5010.00 | Horizontal | -42.26 | | |
| 7515.00 | H | -36.58 | | |
| 10020.00 | H | -33.99 | | |
| **Middle** | | | | |
| 5070.00 | Vertical | -42.24 | -25.00 | Pass |
| 7605.00 | V | -36.95 | | |
| 10140.00 | V | -32.16 | | |
| 5070.00 | Horizontal | -41.24 | | |
| 7605.00 | H | -36.93 | | |
| 10140.00 | H | -36.55 | | |
| **Highest** | | | | |
| 5130.00 | Vertical | -40.58 | -25.00 | Pass |
| 7695.00 | V | -34.24 | | |
| 10260.00 | V | -32.99 | | |
| 5130.00 | Horizontal | -41.15 | | |
| 7695.00 | H | -36.42 | | |
| 10260.00 | H | -32.93 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 7 / 15 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 5015.00 | Vertical | -41.51 | -25.00 | Pass |
| 7522.50 | V | -35.77 | | |
| 10030.00 | V | -34.24 | | |
| 5015.00 | Horizontal | -42.38 | | |
| 7522.50 | H | -36.02 | | |
| 10030.00 | H | -33.74 | | |
| **Middle** | | | | |
| 5070.00 | Vertical | -42.36 | -25.00 | Pass |
| 7605.00 | V | -36.41 | | |
| 10140.00 | V | -32.35 | | |
| 5070.00 | Horizontal | -41.83 | | |
| 7605.00 | H | -36.76 | | |
| 10140.00 | H | -32.58 | | |
| **Highest** | | | | |
| 5125.00 | Vertical | -40.16 | -25.00 | Pass |
| 7687.50 | V | -34.24 | | |
| 10250.00 | V | -32.71 | | |
| 5125.00 | Horizontal | -41.71 | | |
| 7687.50 | H | -36.31 | | |
| 10250.00 | H | -32.42 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 7 / 20 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 5020.00 | Vertical | -41.35 | -25.00 | Pass |
| 7530.00 | V | -35.78 | | |
| 10040.00 | V | -34.76 | | |
| 5020.00 | Horizontal | -42.35 | | |
| 7530.00 | H | -36.76 | | |
| 10040.00 | H | -33.61 | | |
| **Middle** | | | | |
| 5070.00 | Vertical | -42.73 | -25.00 | Pass |
| 7605.00 | V | -36.93 | | |
| 10140.00 | V | -32.71 | | |
| 5070.00 | Horizontal | -41.26 | | |
| 7605.00 | H | -36.83 | | |
| 10140.00 | H | -36.78 | | |
| **Highest** | | | | |
| 5120.00 | Vertical | -40.26 | -25.00 | Pass |
| 7680.00 | V | -34.26 | | |
| 10240.00 | V | -32.58 | | |
| 5120.00 | Horizontal | -41.24 | | |
| 7680.00 | H | -36.15 | | |
| 10240.00 | H | -32.99 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 12 / 1.4 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1399.40 | Vertical | -26.17 | -13.00 | Pass |
| 2099.10 | V | -56.89 | | |
| 2798.80 | V | -50.75 | | |
| 1399.40 | Horizontal | -27.06 | | |
| 2099.10 | H | -56.73 | | |
| 2798.80 | H | -51.63 | | |
| **Middle** | | | | |
| 1415.00 | Vertical | -27.58 | -13.00 | Pass |
| 2122.50 | V | -50.21 | | |
| 2830.00 | V | -47.11 | | |
| 1415.00 | Horizontal | -27.59 | | |
| 2122.50 | H | -48.82 | | |
| 2830.00 | H | -45.27 | | |
| **Highest** | | | | |
| 1430.60 | Vertical | -26.83 | -13.00 | Pass |
| 2145.90 | V | -49.84 | | |
| 2861.20 | V | -43.18 | | |
| 1430.60 | Horizontal | -26.54 | | |
| 2145.90 | H | -47.16 | | |
| 2861.20 | H | -41.22 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 12 / 3 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1401.00 | Vertical | -26.45 | -13.00 | Pass |
| 2101.50 | V | -56.52 | | |
| 2802.00 | V | -50.65 | | |
| 1401.00 | Horizontal | -27.65 | | |
| 2101.50 | H | -56.91 | | |
| 2802.00 | H | -51.32 | | |
| **Middle** | | | | |
| 1415.00 | Vertical | -27.03 | -13.00 | Pass |
| 2122.50 | V | -50.47 | | |
| 2830.00 | V | -47.16 | | |
| 1415.00 | Horizontal | -27.34 | | |
| 2122.50 | H | -48.28 | | |
| 2830.00 | H | -45.13 | | |
| **Highest** | | | | |
| 1429.00 | Vertical | -26.03 | -13.00 | Pass |
| 2143.50 | V | -49.54 | | |
| 2858.00 | V | -43.13 | | |
| 1429.00 | Horizontal | -26.99 | | |
| 2143.50 | H | -47.67 | | |
| 2858.00 | H | -41.34 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 12 / 5 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1403.00 | Vertical | -26.03 | -13.00 | Pass |
| 2104.50 | V | -56.54 | | |
| 2806.00 | V | -50.22 | | |
| 1403.00 | Horizontal | -27.89 | | |
| 2104.50 | H | -56.35 | | |
| 2806.00 | H | -51.91 | | |
| **Middle** | | | | |
| 1415.00 | Vertical | -27.91 | -13.00 | Pass |
| 2122.50 | V | -50.67 | | |
| 2830.00 | V | -47.61 | | |
| 1415.00 | Horizontal | -27.16 | | |
| 2122.50 | H | -48.52 | | |
| 2830.00 | H | -45.65 | | |
| **Highest** | | | | |
| 1427.00 | Vertical | -26.45 | -13.00 | Pass |
| 2410.50 | V | -49.13 | | |
| 2854.00 | V | -43.66 | | |
| 1427.00 | Horizontal | -26.91 | | |
| 2410.50 | H | -47.65 | | |
| 2854.00 | H | -41.91 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 12 / 10 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1408.00 | Vertical | -26.97 | -13.00 | Pass |
| 2112.00 | V | -56.03 | | |
| 2816.00 | V | -50.67 | | |
| 1408.00 | Horizontal | -27.03 | | |
| 2112.00 | H | -56.36 | | |
| 2816.00 | H | -51.46 | | |
| **Middle** | | | | |
| 1415.00 | Vertical | -27.49 | -13.00 | Pass |
| 2122.50 | V | -50.65 | | |
| 2830.00 | V | -47.32 | | |
| 1415.00 | Horizontal | -27.52 | | |
| 2122.50 | H | -48.97 | | |
| 2830.00 | H | -45.32 | | |
| **Highest** | | | | |
| 1422.00 | Vertical | -26.28 | -13.00 | Pass |
| 2133.00 | V | -49.52 | | |
| 2844.00 | V | -43.97 | | |
| 1422.00 | Horizontal | -26.65 | | |
| 2133.00 | H | -47.03 | | |
| 2844.00 | H | -41.54 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

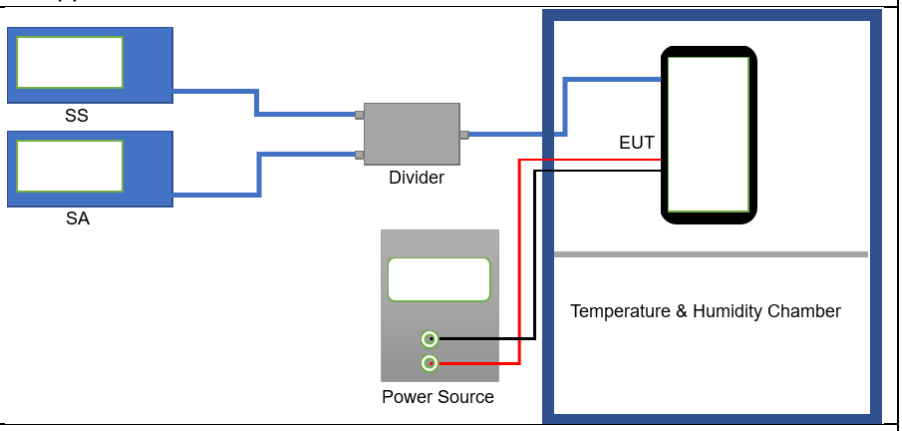
| LTE Band 17 / 5 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1413.00 | Vertical | -23.18 | -13.00 | Pass |
| 2119.50 | V | -48.35 | | |
| 2826.00 | V | -42.62 | | |
| 1413.00 | Horizontal | -22.98 | | |
| 2119.50 | H | -43.01 | | |
| 2826.00 | H | -42.61 | | |
| **Middle** | | | | |
| 1420.00 | Vertical | -25.82 | -13.00 | Pass |
| 2130.00 | V | -44.45 | | |
| 2840.00 | V | -44.27 | | |
| 1420.00 | Horizontal | -26.39 | | |
| 2130.00 | H | -43.18 | | |
| 2840.00 | H | -44.36 | | |
| **Highest** | | | | |
| 1427.00 | Vertical | -29.09 | -13.00 | Pass |
| 2140.50 | V | -45.76 | | |
| 2854.00 | V | -47.94 | | |
| 1427.00 | Horizontal | -26.23 | | |
| 2140.50 | H | -42.60 | | |
| 2854.00 | H | -45.46 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

| LTE Band 17 / 10 MHz / RB size 1 & RB offset 0 | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| **Lowest** | | | | |
| 1418.00 | Vertical | -23.52 | -13.00 | Pass |
| 2127.00 | V | -48.41 | | |
| 2836.00 | V | -42.76 | | |
| 1418.00 | Horizontal | -52.14 | | |
| 2127.00 | H | -43.21 | | |
| 2836.00 | H | -42.67 | | |
| **Middle** | | | | |
| 1420.00 | Vertical | -25.18 | -13.00 | Pass |
| 2130.00 | V | -44.67 | | |
| 2840.00 | V | -44.16 | | |
| 1420.00 | Horizontal | -26.34 | | |
| 2130.00 | H | -43.77 | | |
| 2840.00 | H | -44.45 | | |
| **Highest** | | | | |
| 1422.00 | Vertical | -29.12 | -13.00 | Pass |
| 2133.00 | V | -45.45 | | |
| 2844.00 | V | -47.19 | | |
| 1422.00 | Horizontal | -26.99 | | |
| 2133.00 | H | -42.51 | | |
| 2844.00 | H | -45.94 | | |

Note:
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

## 1.1 Frequency stability V.S. Temperature measurement

| | |
|---|---|
| Test Requirement: | Part 24.235, Part 27.54, Part 2.1055(a)(1)(b) |
| Test Method: | ANSI/TIA-603-D 2010 |
| Limit: | ±2.5ppm |
| Test setup: |  |
| Test procedure: | 1. The equipment under test was connected to an external DC power supply and input rated voltage.<br>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.<br>3. The EUT was placed inside the temperature chamber.<br>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25℃ operating frequency as reference frequency.<br>5. Turn EUT off and set the chamber temperature to –30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency.<br>6. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data:

| Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz | | | | | |
|---|---|---|---|---|---|
| Power supplied (Vdc) | Temperature (℃) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.80 | -30 | 174 | 0.092553 | ±2.5 | Pass |
| | -20 | 144 | 0.076596 | | |
| | -10 | 123 | 0.065426 | | |
| | 0 | 105 | 0.055851 | | |
| | 10 | 146 | 0.077660 | | |
| | 20 | 155 | 0.082447 | | |
| | 30 | 169 | 0.089894 | | |
| | 40 | 114 | 0.060638 | | |
| | 50 | 136 | 0.072340 | | |
| 16QAM | | | | | |
| 3.80 | -30 | 174 | 0.092553 | ±2.5 | Pass |
| | -20 | 188 | 0.100000 | | |
| | -10 | 190 | 0.101064 | | |
| | 0 | 163 | 0.086702 | | |
| | 10 | 154 | 0.081915 | | |
| | 20 | 135 | 0.071809 | | |
| | 30 | 162 | 0.086170 | | |
| | 40 | 180 | 0.095745 | | |
| | 50 | 174 | 0.092553 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz | | | | | |
|---|---|---|---|---|---|
| Power supplied (Vdc) | Temperature (℃) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.80 | -30 | 176 | 0.101587 | ±2.5 | Pass |
| | -20 | 152 | 0.087734 | | |
| | -10 | 146 | 0.084271 | | |
| | 0 | 138 | 0.079654 | | |
| | 10 | 159 | 0.091775 | | |
| | 20 | 147 | 0.084848 | | |
| | 30 | 191 | 0.110245 | | |
| | 40 | 123 | 0.070996 | | |
| | 50 | 158 | 0.091198 | | |
| 16QAM | | | | | |
| 3.80 | -30 | 163 | 0.094084 | ±2.5 | Pass |
| | -20 | 157 | 0.090620 | | |
| | -10 | 181 | 0.104473 | | |
| | 0 | 136 | 0.078499 | | |
| | 10 | 146 | 0.084271 | | |
| | 20 | 149 | 0.086003 | | |
| | 30 | 179 | 0.103319 | | |
| | 40 | 168 | 0.096970 | | |
| | 50 | 148 | 0.085426 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz | | | | | |
|---|---|---|---|---|---|
| Power supplied (Vdc) | Temperature (℃) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.80 | -30 | 186 | 0.222355 | ±2.5 | Pass |
| | -20 | 144 | 0.172146 | | |
| | -10 | 136 | 0.162582 | | |
| | 0 | 128 | 0.153019 | | |
| | 10 | 170 | 0.203228 | | |
| | 20 | 163 | 0.194860 | | |
| | 30 | 125 | 0.149432 | | |
| | 40 | 146 | 0.174537 | | |
| | 50 | 138 | 0.164973 | | |
| 16QAM | | | | | |
| 3.80 | -30 | 176 | 0.210400 | ±2.5 | Pass |
| | -20 | 125 | 0.149432 | | |
| | -10 | 160 | 0.191273 | | |
| | 0 | 143 | 0.170950 | | |
| | 10 | 126 | 0.150628 | | |
| | 20 | 159 | 0.190078 | | |
| | 30 | 147 | 0.175732 | | |
| | 40 | 102 | 0.121937 | | |
| | 50 | 126 | 0.150628 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100Frequency=2535.00MHz | | | | | |
|---|---|---|---|---|---|
| Power supplied (Vdc) | Temperature (℃) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.80 | -30 | 163 | 0.064300 | ±2.5 | Pass |
| | -20 | 125 | 0.049310 | | |
| | -10 | 104 | 0.041026 | | |
| | 0 | 125 | 0.049310 | | |
| | 10 | 162 | 0.063905 | | |
| | 20 | 179 | 0.070611 | | |
| | 30 | 115 | 0.045365 | | |
| | 40 | 136 | 0.053649 | | |
| | 50 | 189 | 0.074556 | | |
| 16QAM | | | | | |
| 3.80 | -30 | 174 | 0.068639 | ±2.5 | Pass |
| | -20 | 156 | 0.061538 | | |
| | -10 | 135 | 0.053254 | | |
| | 0 | 128 | 0.050493 | | |
| | 10 | 136 | 0.053649 | | |
| | 20 | 159 | 0.062722 | | |
| | 30 | 178 | 0.070217 | | |
| | 40 | 190 | 0.074951 | | |
| | 50 | 156 | 0.061538 | | |

Note: Only the worst case shown in the report.

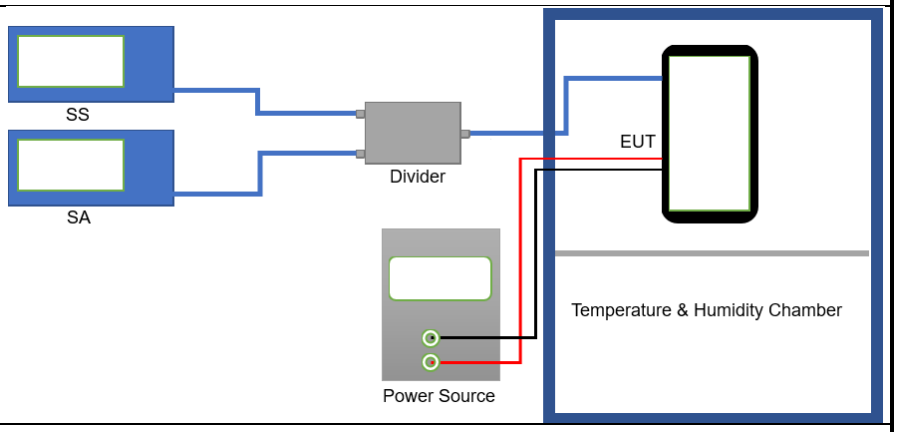
| Reference Frequency: LTE Band 12 (10MHz) Middle channel=23095Frequency=707.50MHz | | | | | |
|---|---|---|---|---|---|
| Power supplied (Vdc) | Temperature (℃) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.80 | -30 | 176 | 0.248763 | ±2.5 | Pass |
| | -20 | 122 | 0.172438 | | |
| | -10 | 149 | 0.210601 | | |
| | 0 | 138 | 0.195053 | | |
| | 10 | 157 | 0.221908 | | |
| | 20 | 108 | 0.152650 | | |
| | 30 | 125 | 0.176678 | | |
| | 40 | 136 | 0.192226 | | |
| | 50 | 178 | 0.251590 | | |
| 16QAM | | | | | |
| 3.80 | -30 | 159 | 0.224735 | ±2.5 | Pass |
| | -20 | 136 | 0.192226 | | |
| | -10 | 146 | 0.206360 | | |
| | 0 | 125 | 0.176678 | | |
| | 10 | 116 | 0.163958 | | |
| | 20 | 133 | 0.187986 | | |
| | 30 | 149 | 0.210601 | | |
| | 40 | 158 | 0.223322 | | |
| | 50 | 107 | 0.151237 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz | | | | | |
|---|---|---|---|---|---|
| Power supplied (Vdc) | Temperature (℃) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 3.80 | -30 | 176 | 0.247887 | ±2.5 | Pass |
| | -20 | 152 | 0.214085 | | |
| | -10 | 163 | 0.229577 | | |
| | 0 | 192 | 0.270423 | | |
| | 10 | 147 | 0.207042 | | |
| | 20 | 163 | 0.229577 | | |
| | 30 | 158 | 0.222535 | | |
| | 40 | 126 | 0.177465 | | |
| | 50 | 136 | 0.191549 | | |
| 16QAM | | | | | |
| 3.80 | -30 | 147 | 0.207042 | ±2.5 | Pass |
| | -20 | 123 | 0.173239 | | |
| | -10 | 105 | 0.147887 | | |
| | 0 | 156 | 0.219718 | | |
| | 10 | 179 | 0.252113 | | |
| | 20 | 156 | 0.219718 | | |
| | 30 | 136 | 0.191549 | | |
| | 40 | 128 | 0.180282 | | |
| | 50 | 174 | 0.245070 | | |

Note: Only the worst case shown in the report.

## 1.2 Frequency stability V.S. Voltage measurement

| | |
|---|---|
| Test Requirement: | Part 24.235, Part 27.54, Part 2.1055(d)(2) |
| Test Method: | ANSI/TIA-603-D 2010 |
| Limit: | ±2.5ppm |
| Test setup: |  |
| Test procedure: | 1. Set chamber temperature to 25℃. Use a variable DC power source to power the EUT and set the voltage to rated voltage.<br>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.<br>3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change. |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

**Measurement Data:**

| Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz | | | | | |
|---|---|---|---|---|---|
| Temperature (℃) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 4.35 | 69 | 0.036702 | ±2.5 | Pass |
| | 3.80 | 85 | 0.045213 | | |
| | 3.50 | 63 | 0.033511 | | |
| 16QAM | | | | | |
| 25 | 4.35 | 74 | 0.039362 | ±2.5 | Pass |
| | 3.80 | 90 | 0.047872 | | |
| | 3.50 | 88 | 0.046809 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz | | | | | |
|---|---|---|---|---|---|
| Temperature (℃) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 4.35 | 75 | 0.043290 | ±2.5 | Pass |
| | 3.80 | 69 | 0.039827 | | |
| | 3.50 | 77 | 0.044444 | | |
| 16QAM | | | | | |
| 25 | 4.35 | 89 | 0.051371 | ±2.5 | Pass |
| | 3.80 | 75 | 0.043290 | | |
| | 3.50 | 63 | 0.036364 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz | | | | | |
|---|---|---|---|---|---|
| Temperature (℃) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 4.35 | 75 | 0.089659 | ±2.5 | Pass |
| | 3.80 | 85 | 0.101614 | | |
| | 3.50 | 90 | 0.107591 | | |
| 16QAM | | | | | |
| 25 | 4.35 | 77 | 0.092050 | ±2.5 | Pass |
| | 3.80 | 86 | 0.102809 | | |
| | 3.50 | 78 | 0.093246 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz | | | | | |
|---|---|---|---|---|---|
| Temperature (℃) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 4.35 | 63 | 0.024852 | ±2.5 | Pass |
| | 3.80 | 78 | 0.030769 | | |
| | 3.50 | 95 | 0.037475 | | |
| 16QAM | | | | | |
| 25 | 4.35 | 74 | 0.029191 | ±2.5 | Pass |
| | 3.80 | 63 | 0.024852 | | |
| | 3.50 | 89 | 0.035108 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.50MHz | | | | | |
|---|---|---|---|---|---|
| Temperature (℃) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 4.35 | 75 | 0.106007 | ±2.5 | Pass |
| | 3.80 | 87 | 0.122968 | | |
| | 3.50 | 89 | 0.125795 | | |
| 16QAM | | | | | |
| 25 | 4.35 | 78 | 0.110247 | ±2.5 | Pass |
| | 3.80 | 88 | 0.124382 | | |
| | 3.50 | 63 | 0.089046 | | |

Note: Only the worst case shown in the report.

| Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz | | | | | |
|---|---|---|---|---|---|
| Temperature (℃) | Power supplied (Vdc) | Frequency error | | Limit (ppm) | Result |
| | | Hz | ppm | | |
| QPSK | | | | | |
| 25 | 4.35 | 78 | 0.109859 | ±2.5 | Pass |
| | 3.80 | 96 | 0.135211 | | |
| | 3.50 | 85 | 0.119718 | | |
| 16QAM | | | | | |
| 25 | 4.35 | 76 | 0.107042 | ±2.5 | Pass |
| | 3.80 | 89 | 0.125352 | | |
| | 3.50 | 95 | 0.133803 | | |

Note: Only the worst case shown in the report.