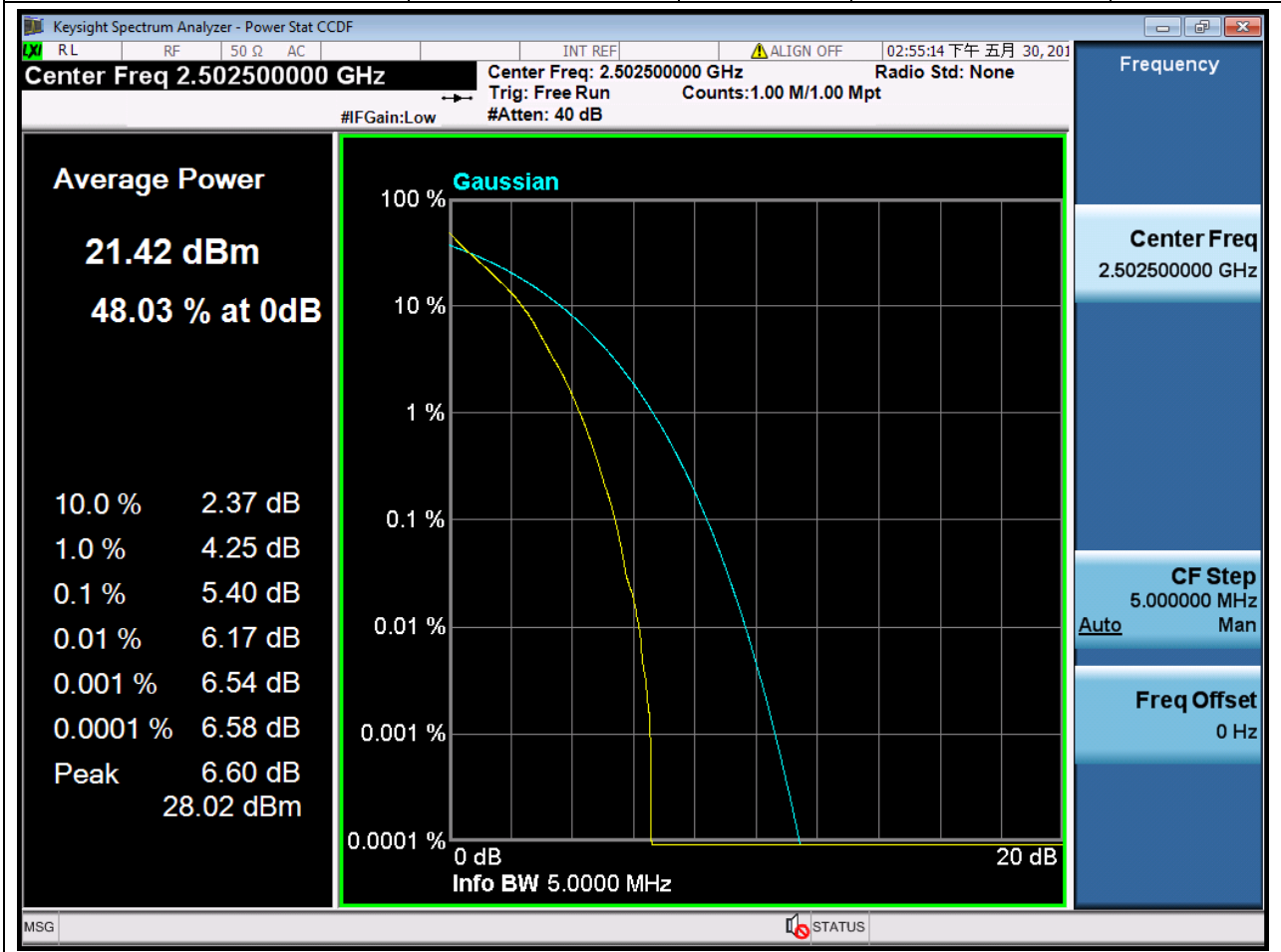


## Annex B. LTE Peak to Average Ratio

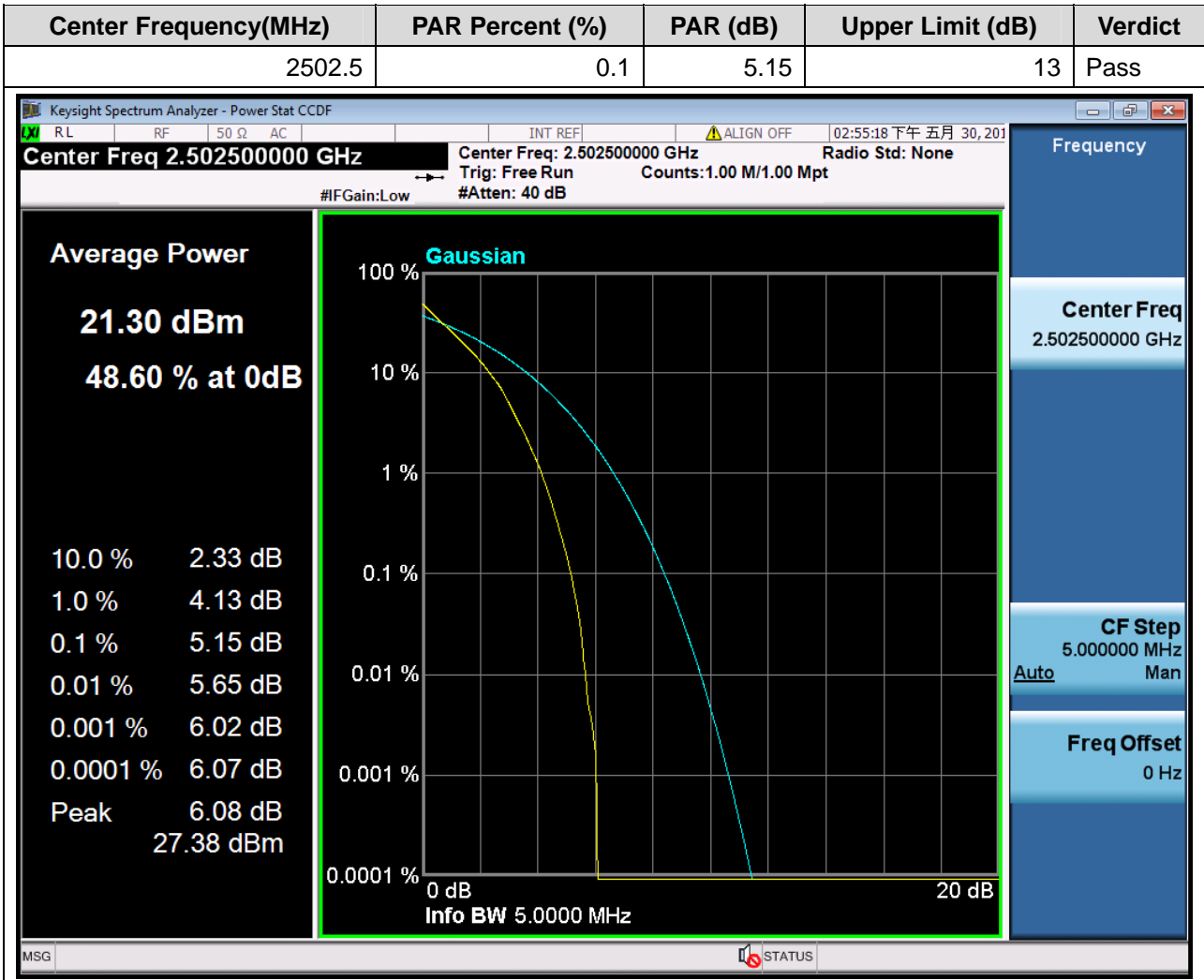
# 1. LTE\_Band7

## 1.1. LTE Peak to Average Ratio(NTNV)(Subtest:1, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

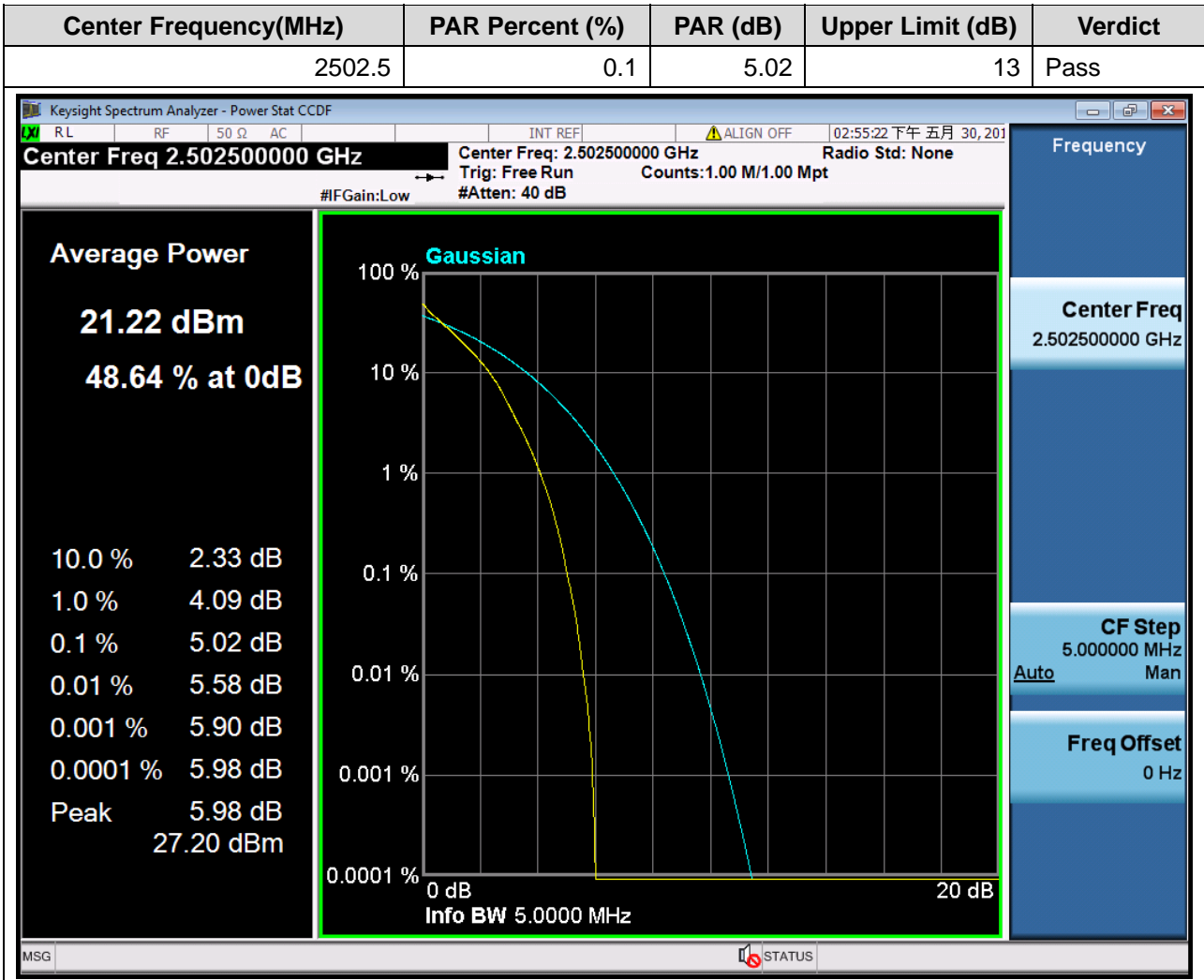
| Center Frequency(MHz) | PAR Percent (%) | PAR (dB) | Upper Limit (dB) | Verdict |
|-----------------------|-----------------|----------|------------------|---------|
| 2502.5                | 0.1             | 5.4      | 13               | Pass    |



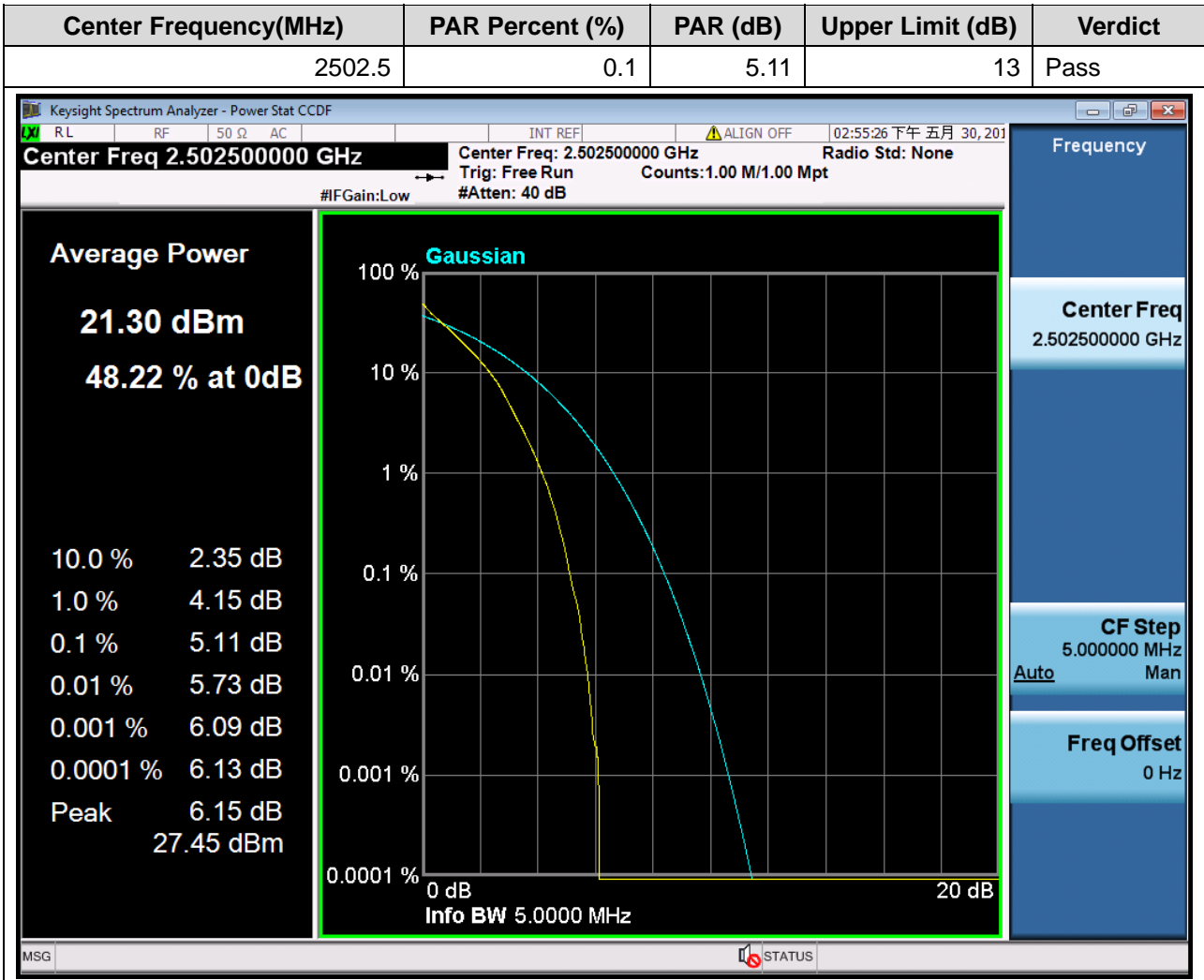
**1.2. LTE Peak to Average Ratio(NTNV)(Subtest:2, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:LOW)**



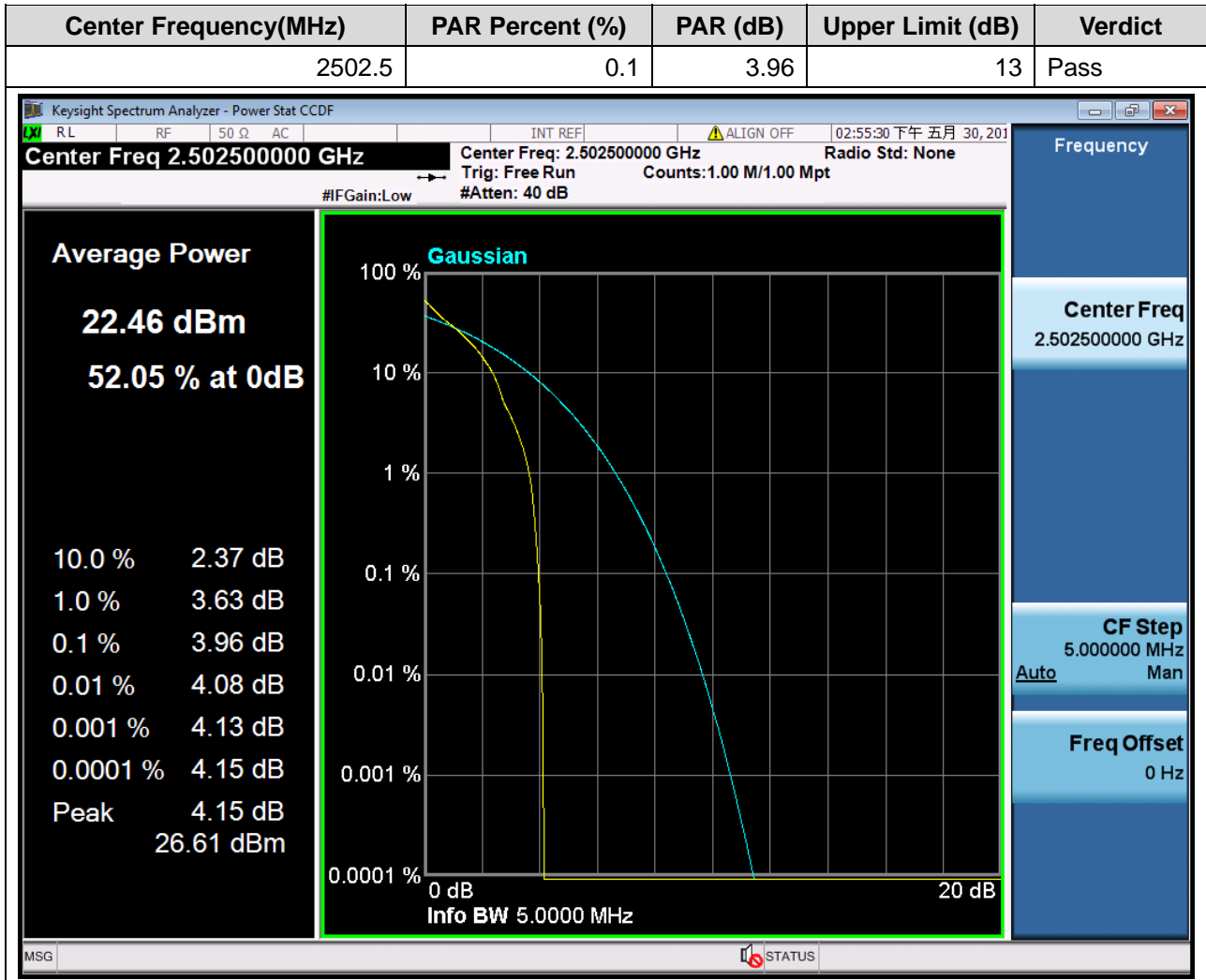
**1.3. LTE Peak to Average Ratio(NTNV)(Subtest:3, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:MID)**



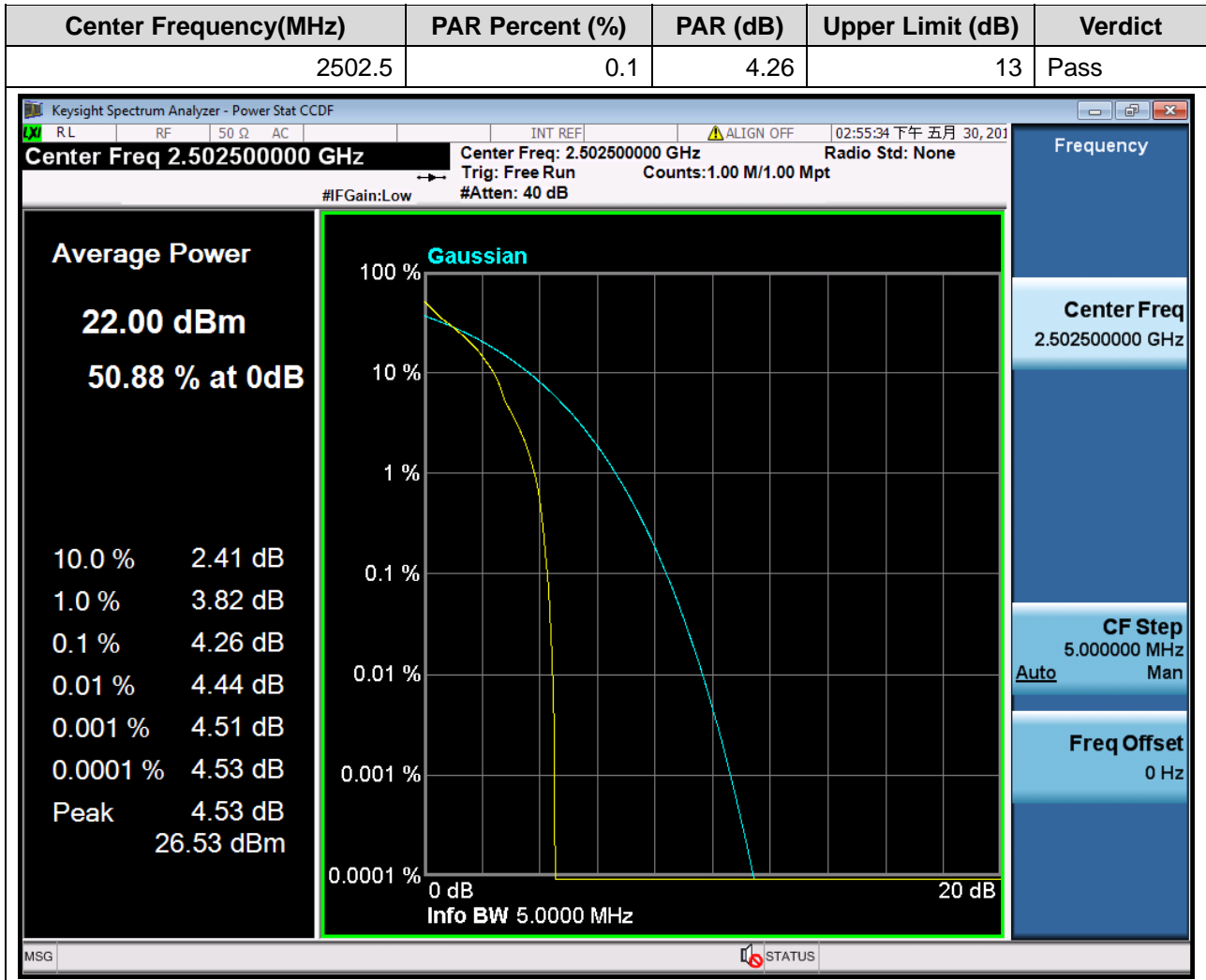
**1.4. LTE Peak to Average Ratio(NTNV)(Subtest:4, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:HIGH)**



**1.5. LTE Peak to Average Ratio(NTNV)(Subtest:5, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



**1.6. LTE Peak to Average Ratio(NTNV)(Subtest:6, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:MID)**

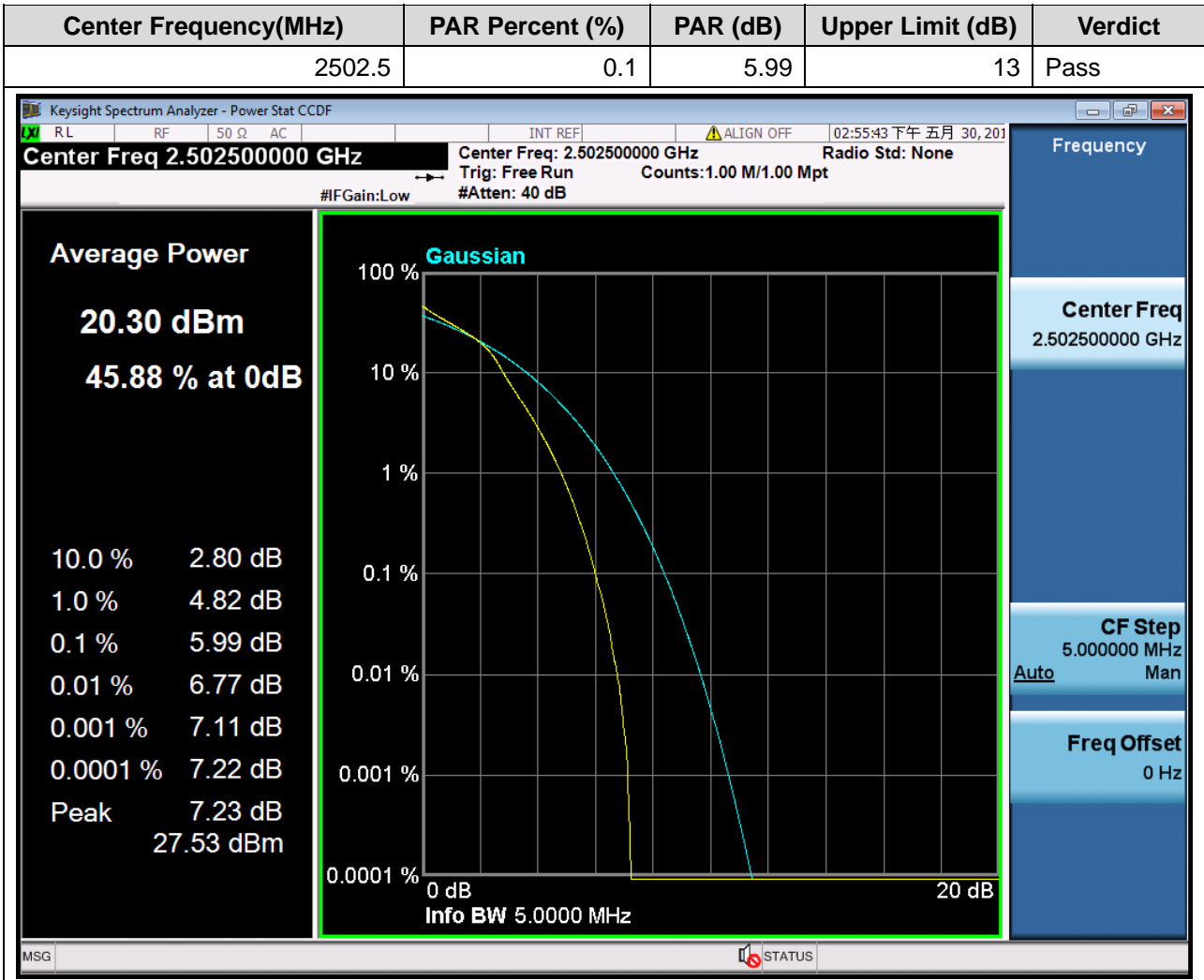


**1.7. LTE Peak to Average Ratio(NTNV)(Subtest:7, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)**

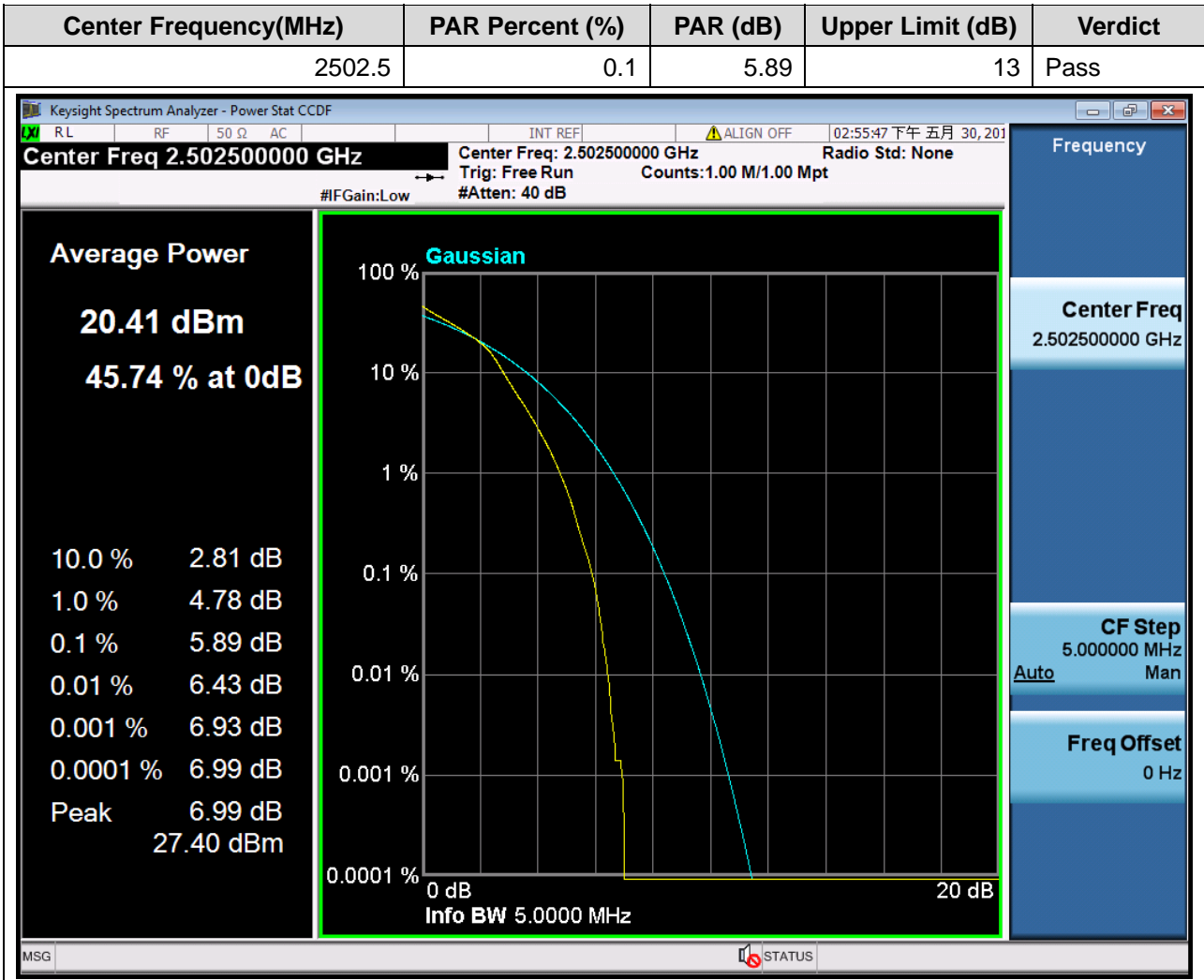




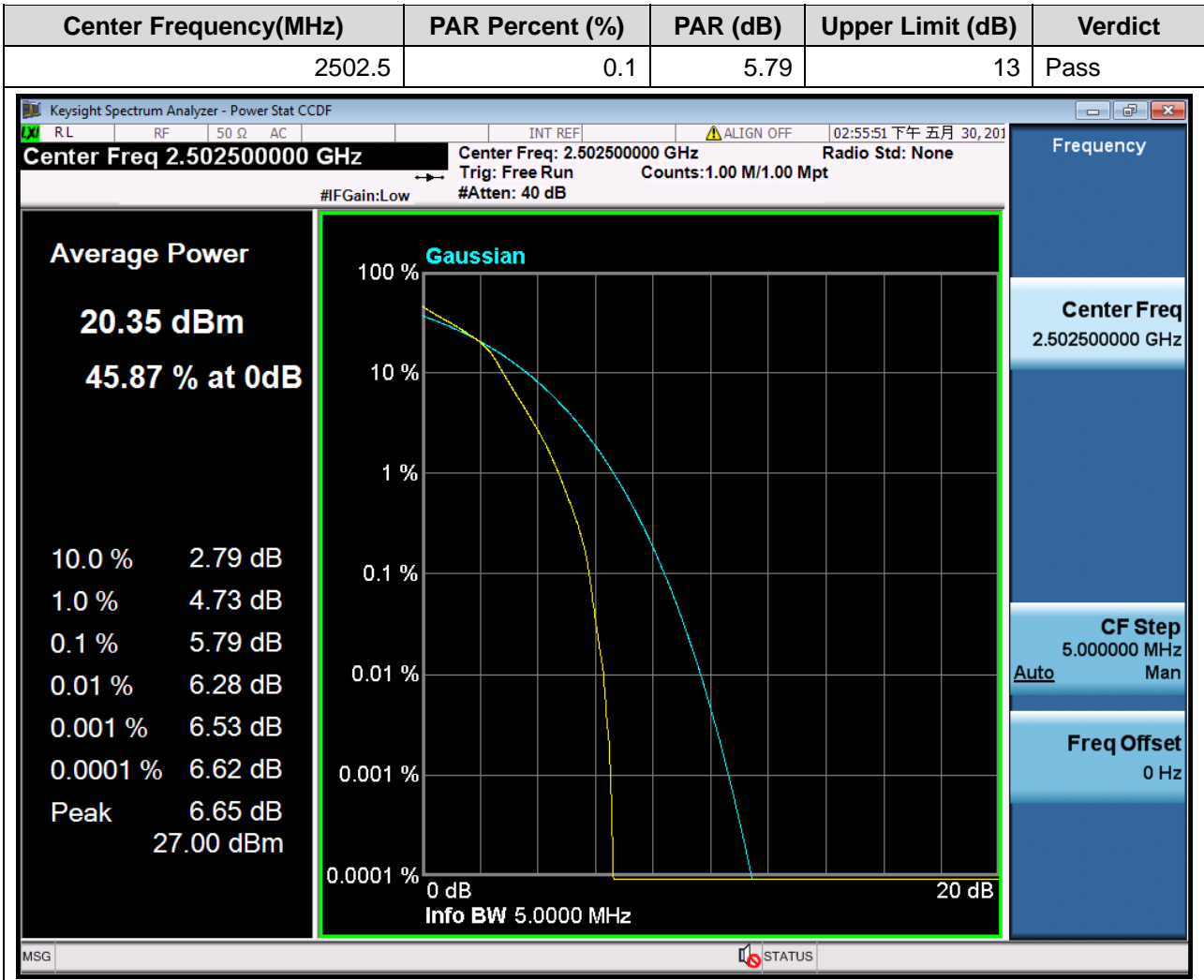
**1.8. LTE Peak to Average Ratio(NTNV)(Subtest:8, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



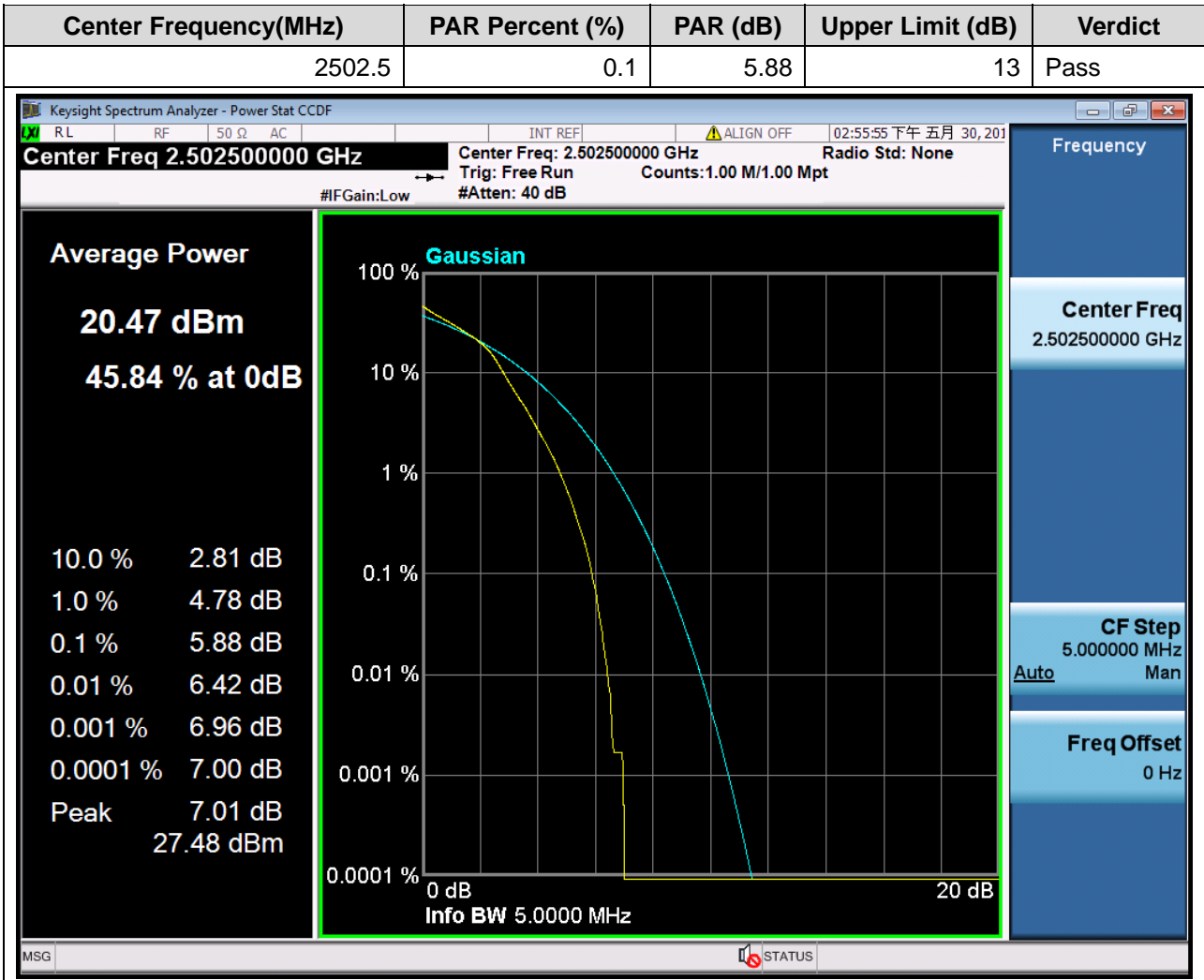
**1.9. LTE Peak to Average Ratio(NTNV)(Subtest:9, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:LOW)**



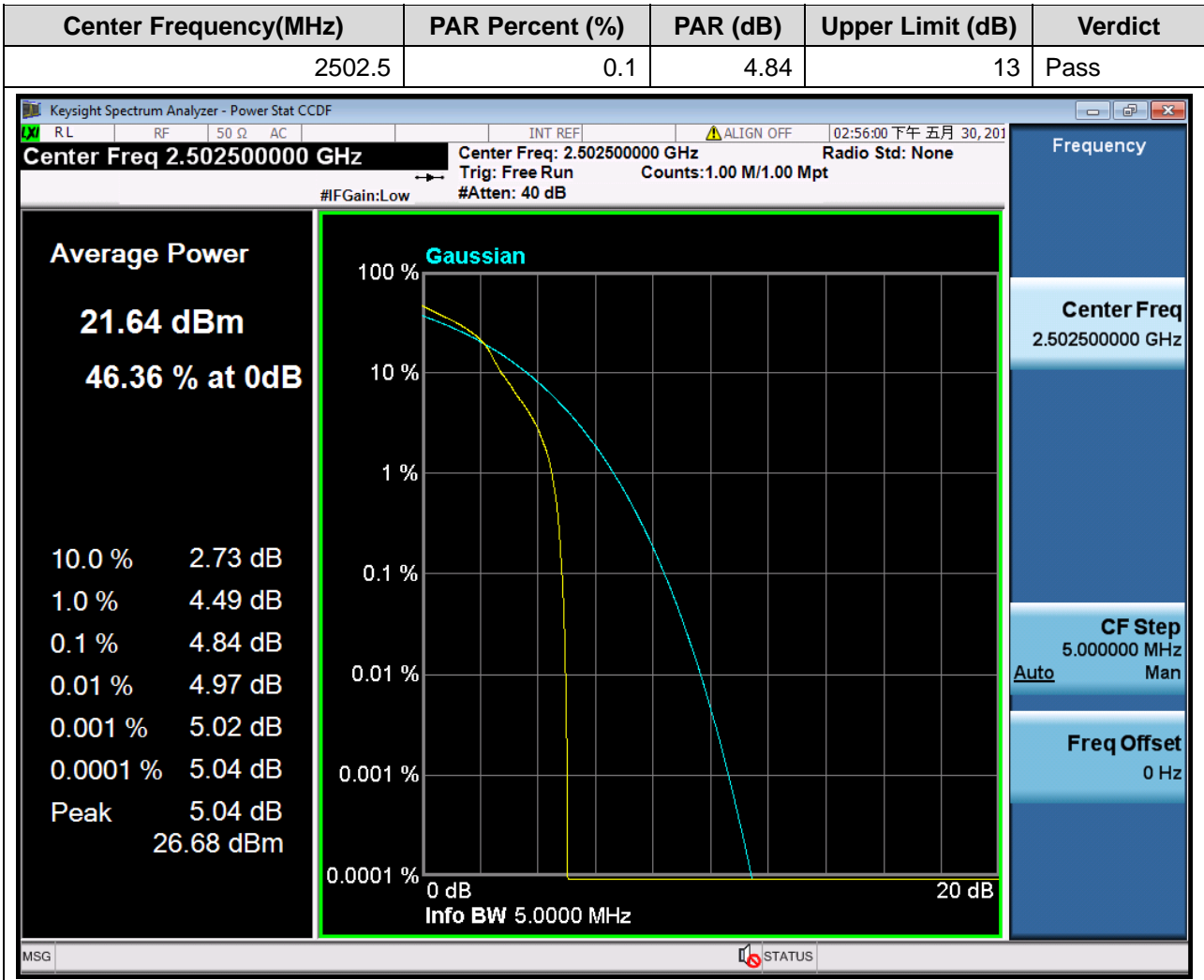
**1.10. LTE Peak to Average Ratio(NTNV)(Subtest:10, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:MID)**



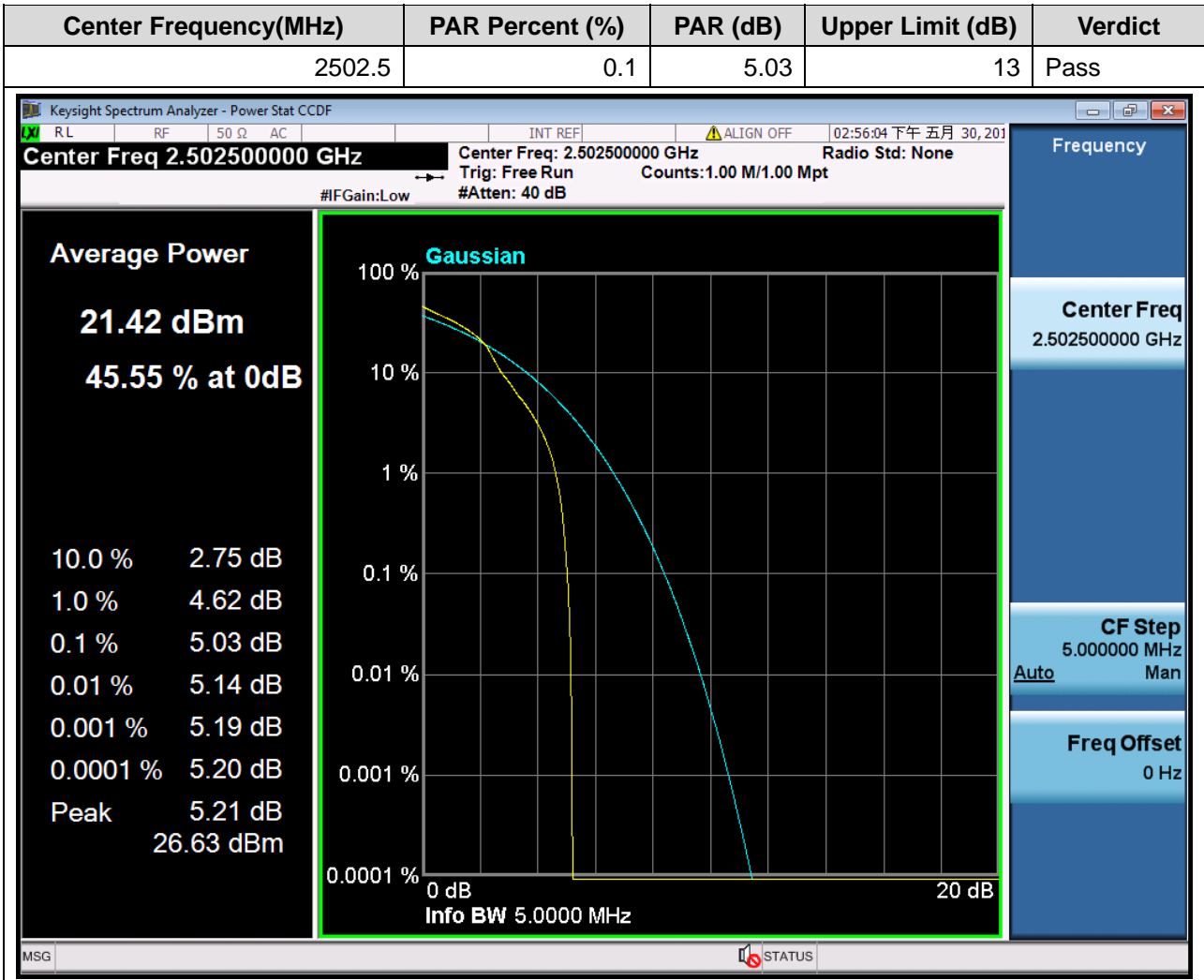
**1.11. LTE Peak to Average Ratio(NTNV)(Subtest:11, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:HIGH)**



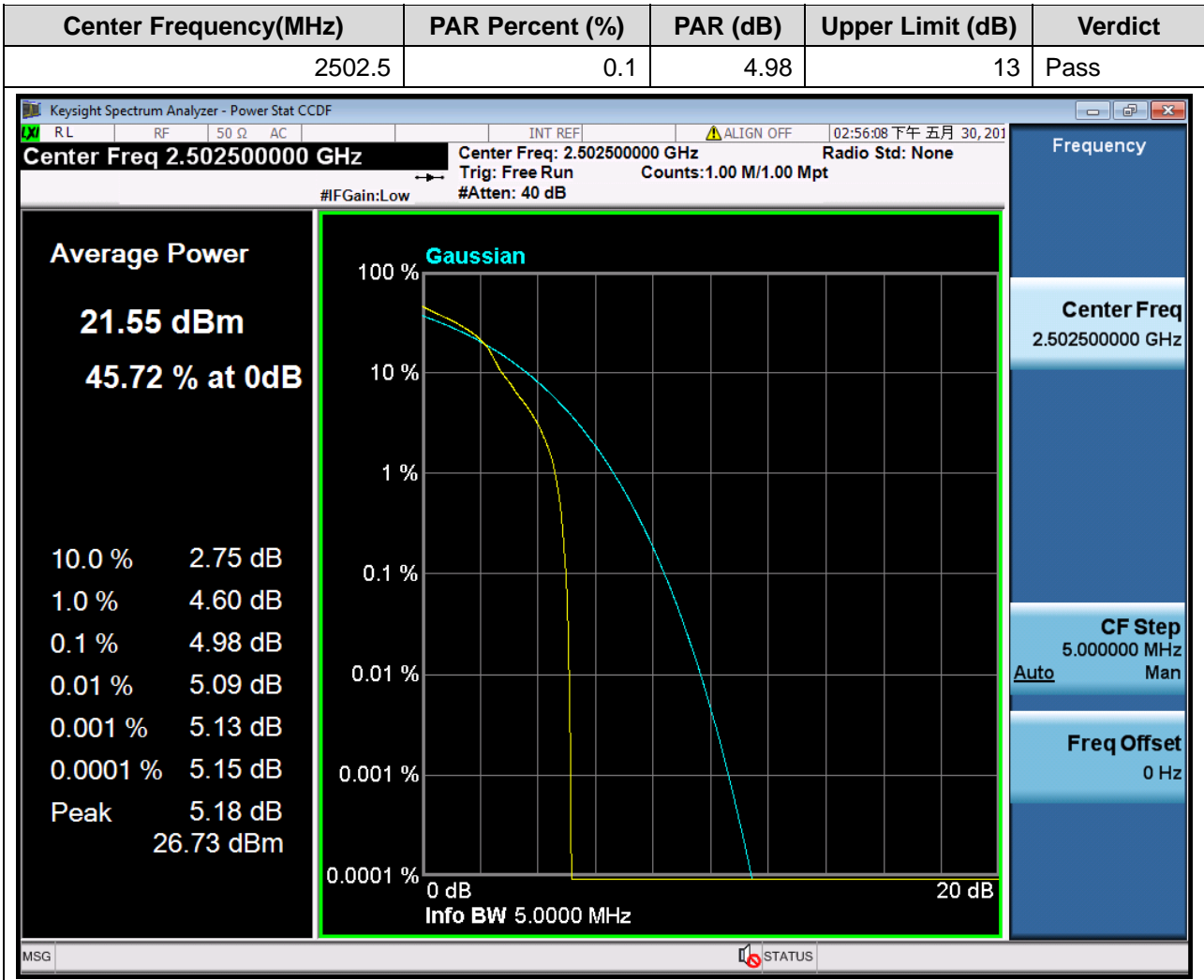
**1.12. LTE Peak to Average Ratio(NTNV)(Subtest:12, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)**



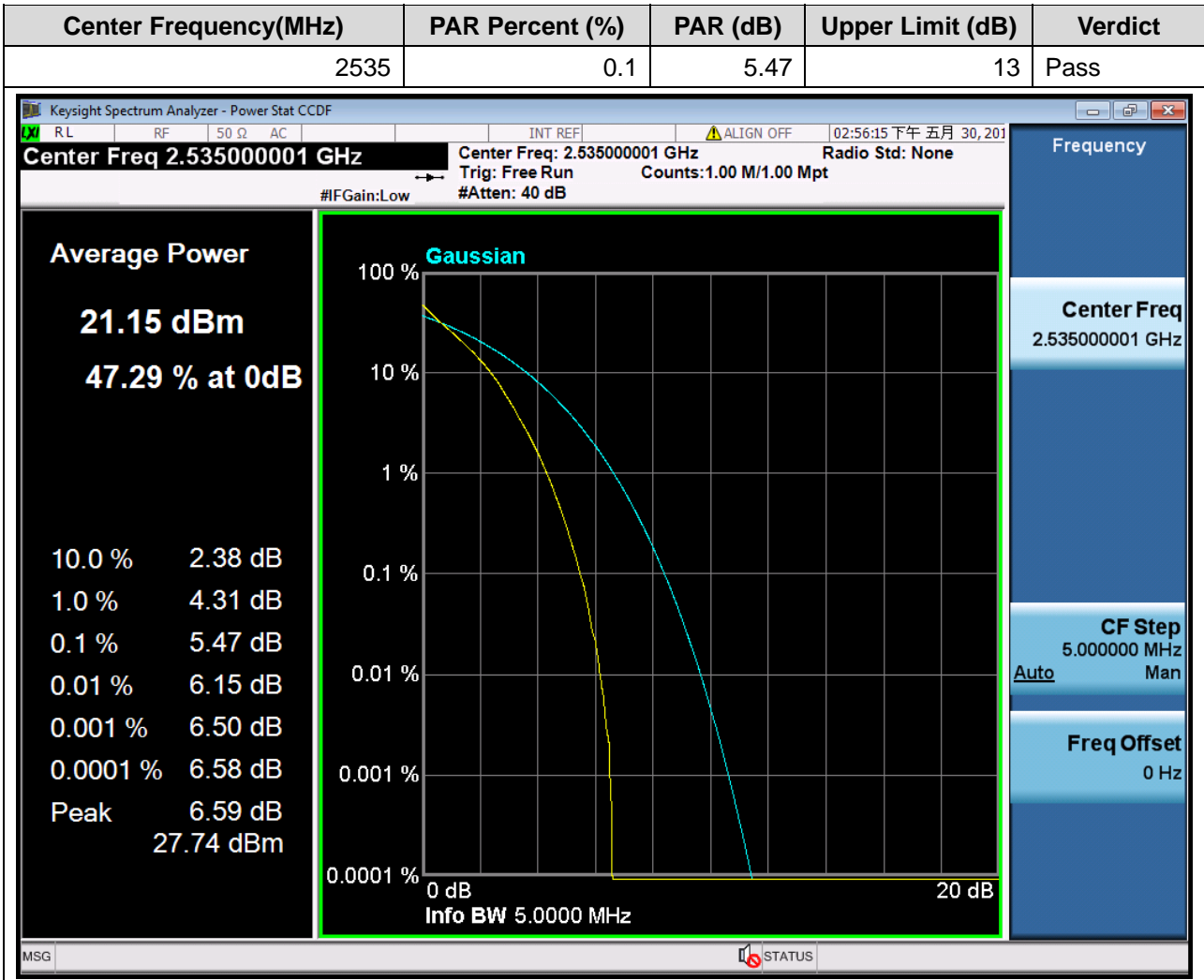
**1.13. LTE Peak to Average Ratio(NTNV)(Subtest:13, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:MID)**



**1.14. LTE Peak to Average Ratio(NTNV)(Subtest:14, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)**

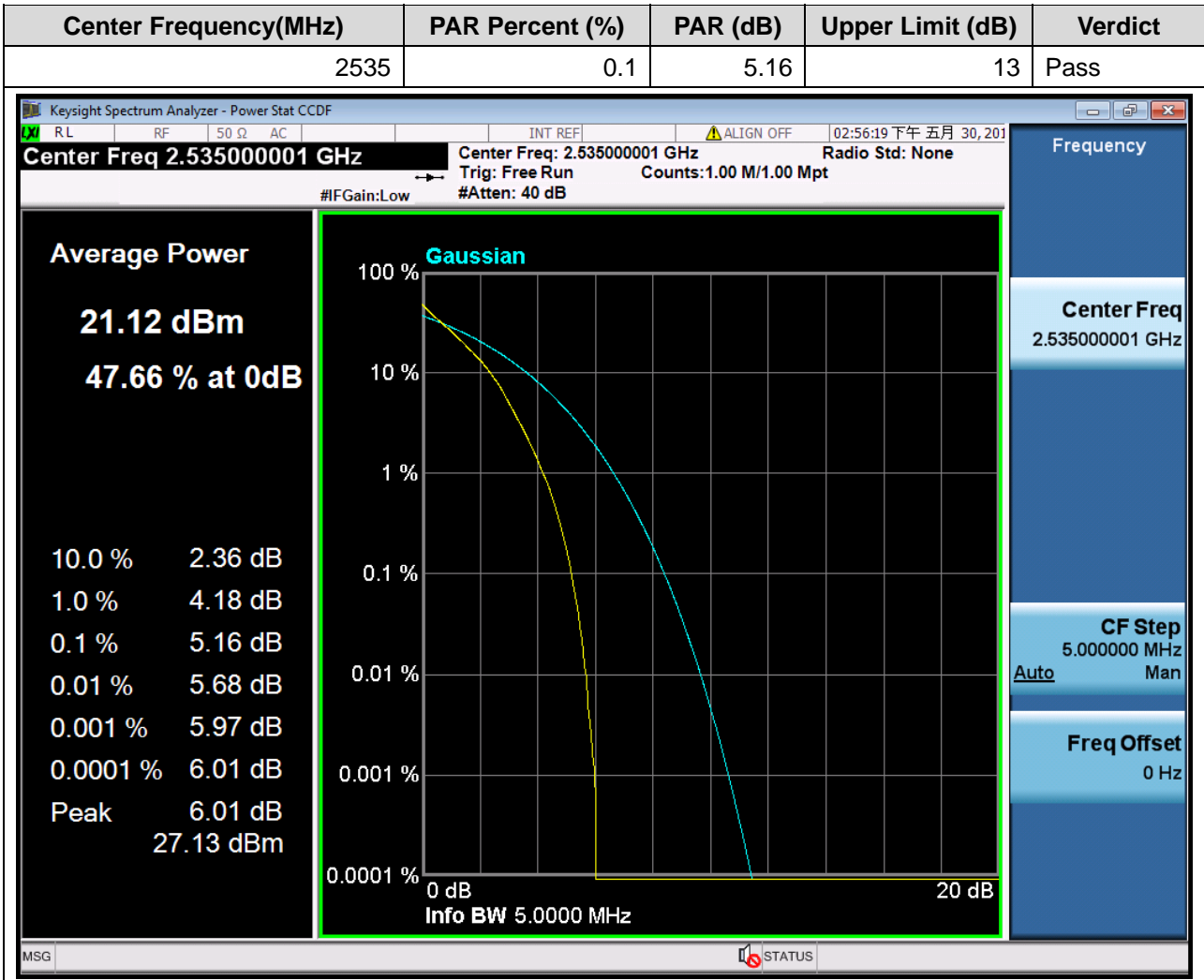


**1.15. LTE Peak to Average Ratio(NTNV)(Subtest:15, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

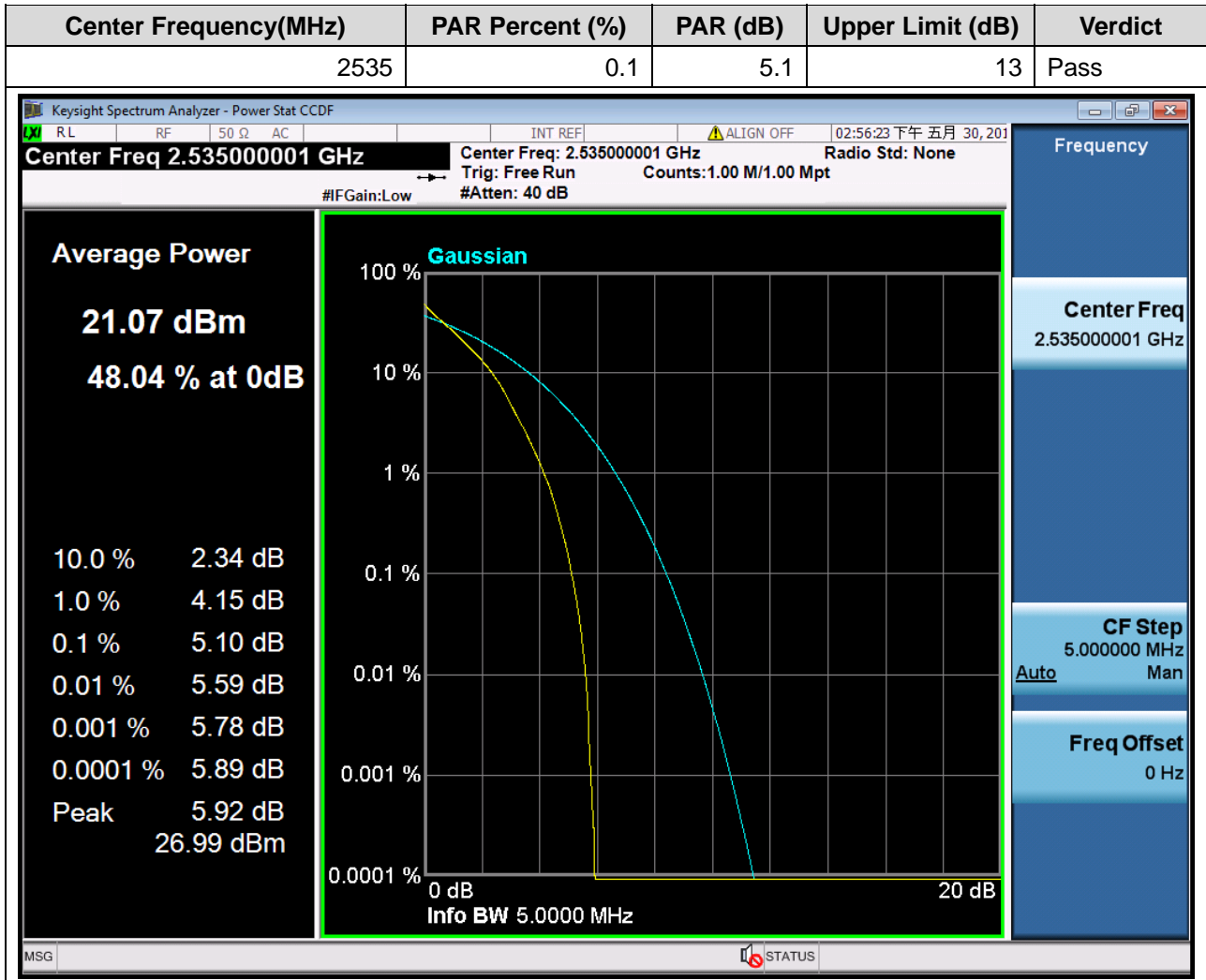




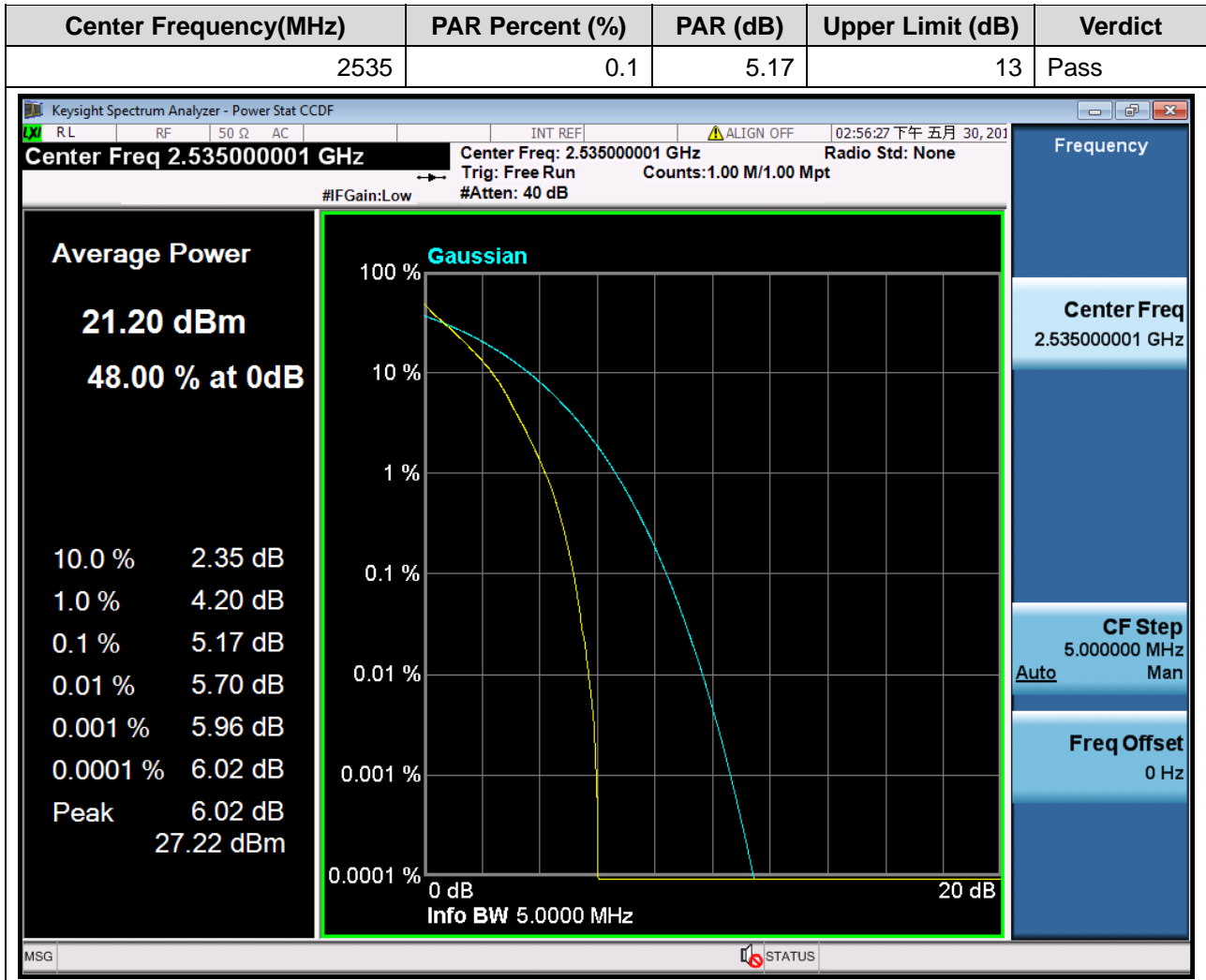
**1.16. LTE Peak to Average Ratio(NTNV)(Subtest:16, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:LOW)**



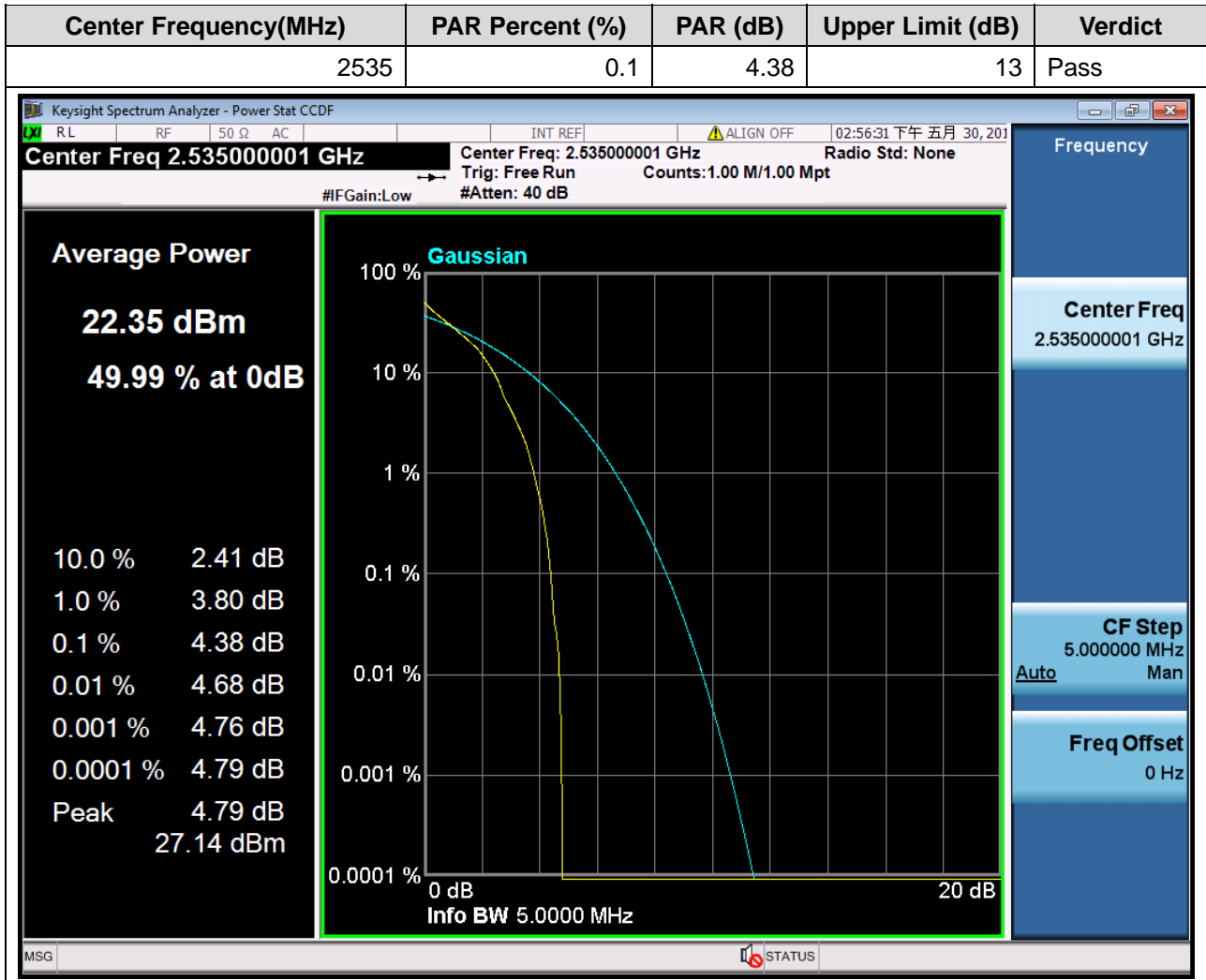
**1.17. LTE Peak to Average Ratio(NTNV)(Subtest:17, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:MID)**



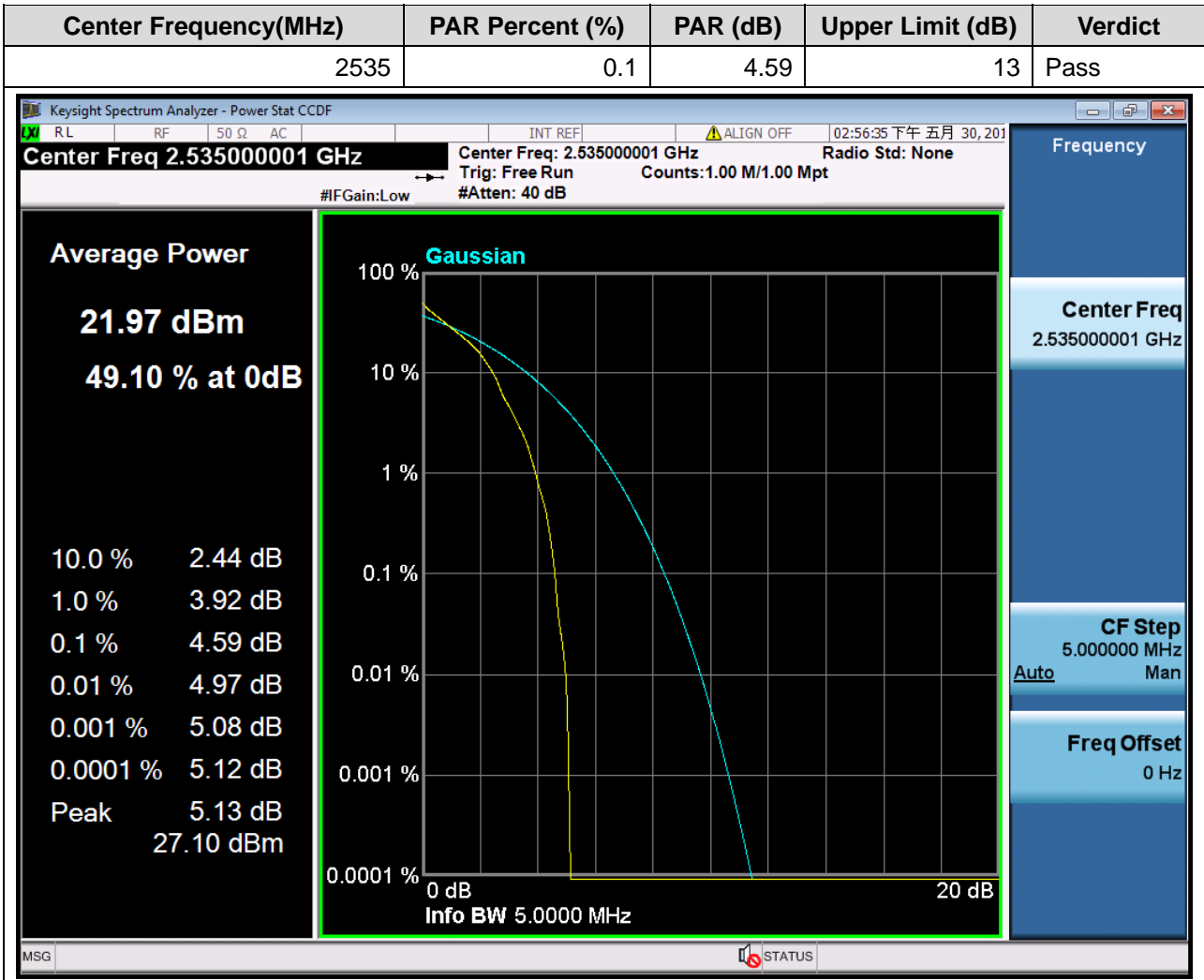
**1.18. LTE Peak to Average Ratio(NTNV)(Subtest:18, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:HIGH)**



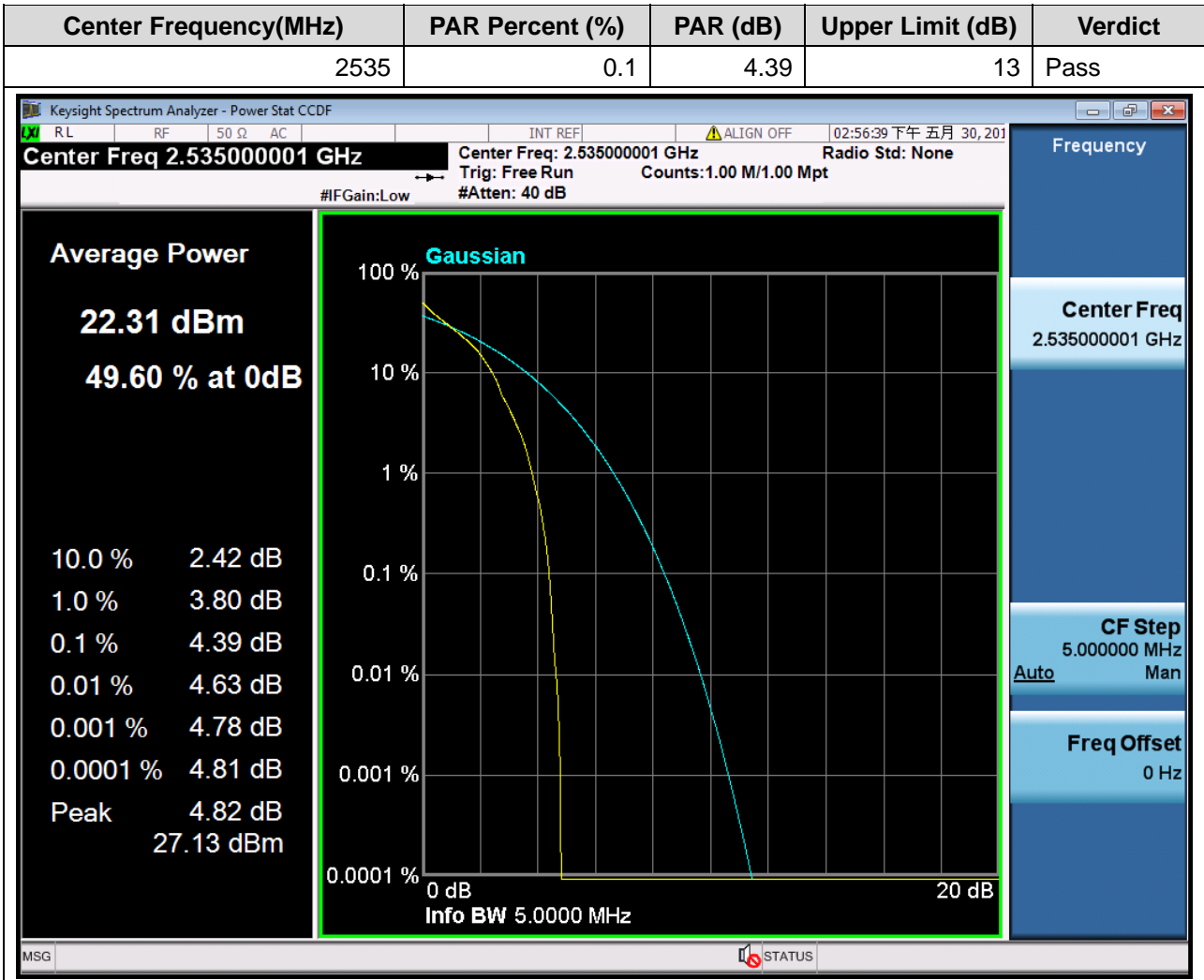
**1.19. LTE Peak to Average Ratio(NTNV)(Subtest:19, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



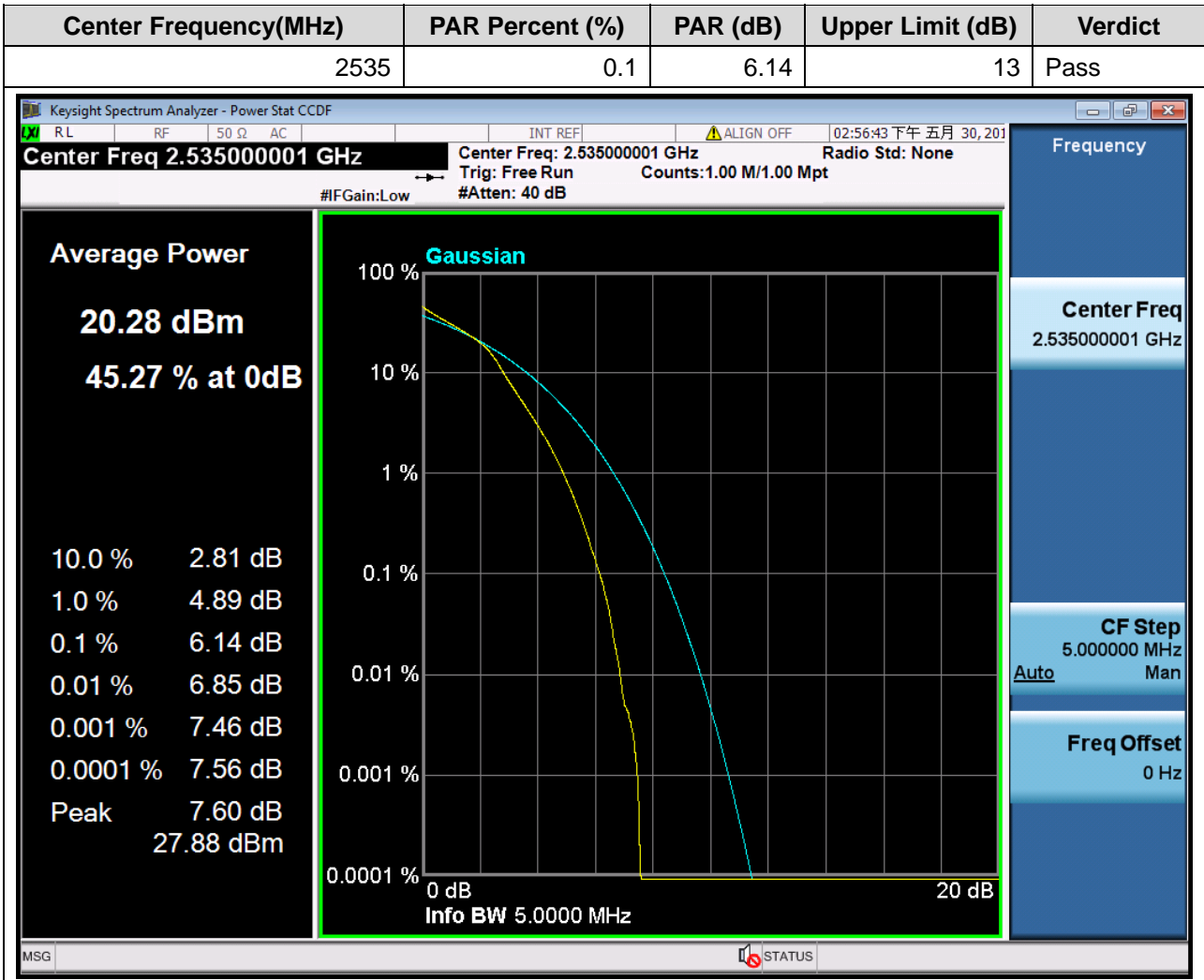
**1.20. LTE Peak to Average Ratio(NTNV)(Subtest:20, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:MID)**



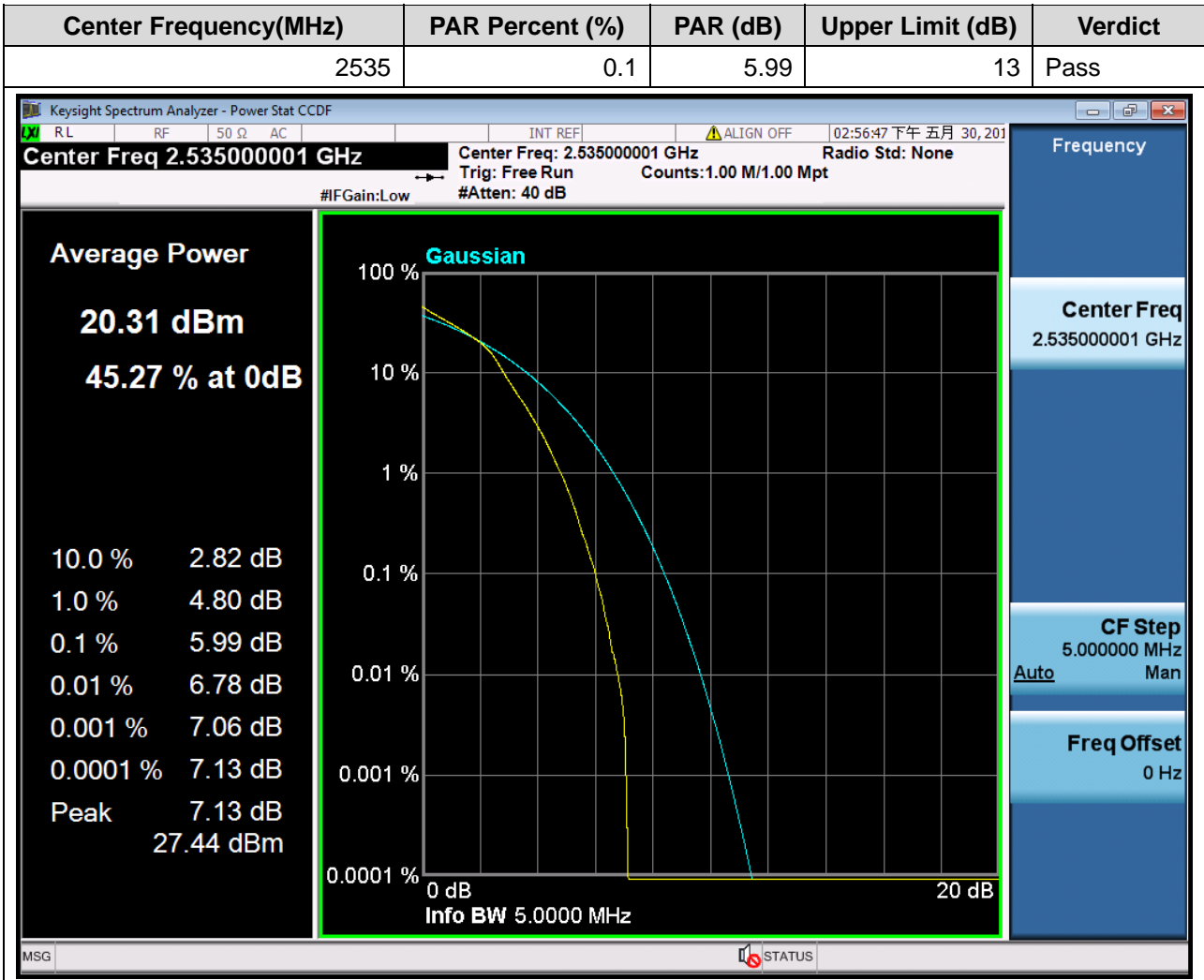
**1.21. LTE Peak to Average Ratio(NTNV)(Subtest:21, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)**



**1.22. LTE Peak to Average Ratio(NTNV)(Subtest:22, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

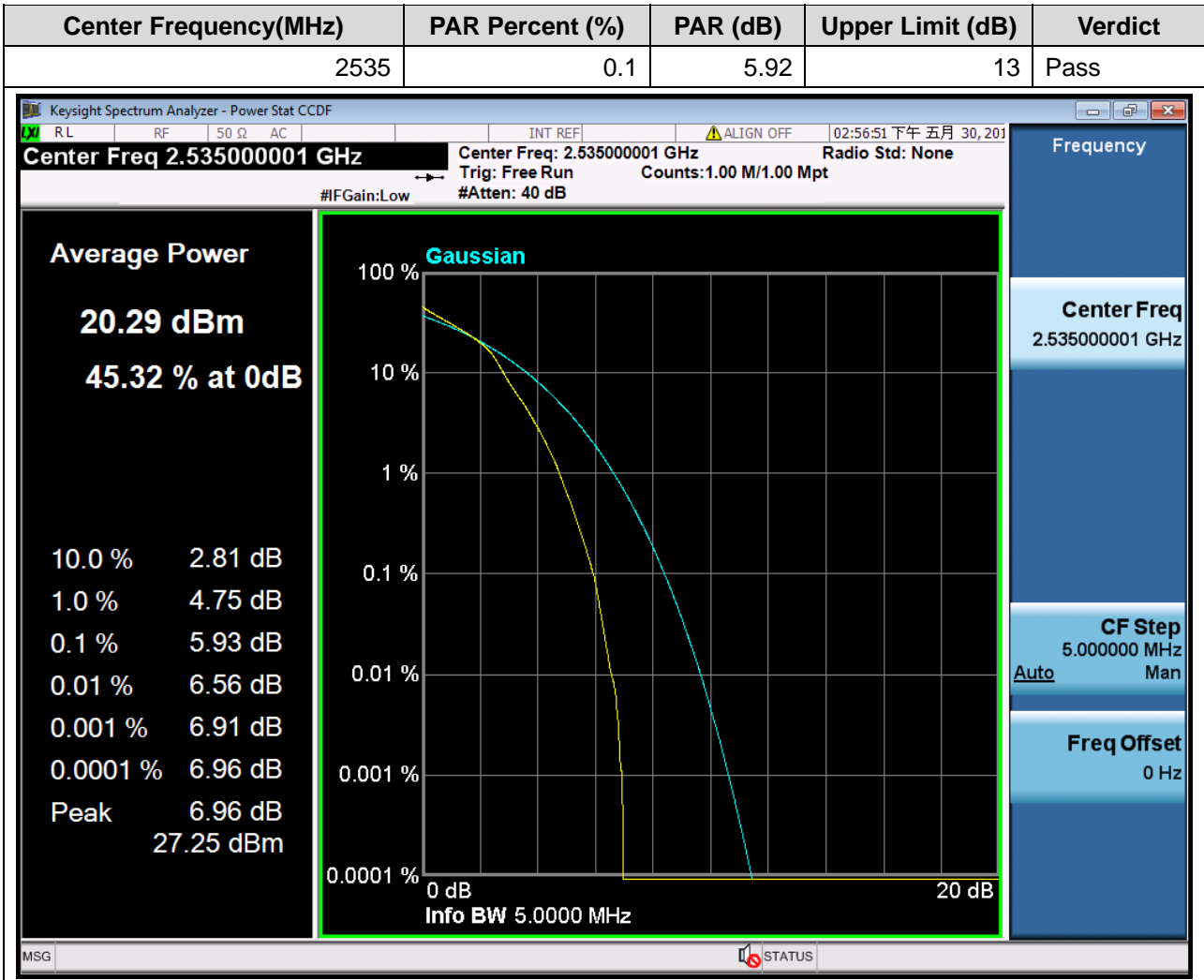


**1.23. LTE Peak to Average Ratio(NTNV)(Subtest:23, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:LOW)**

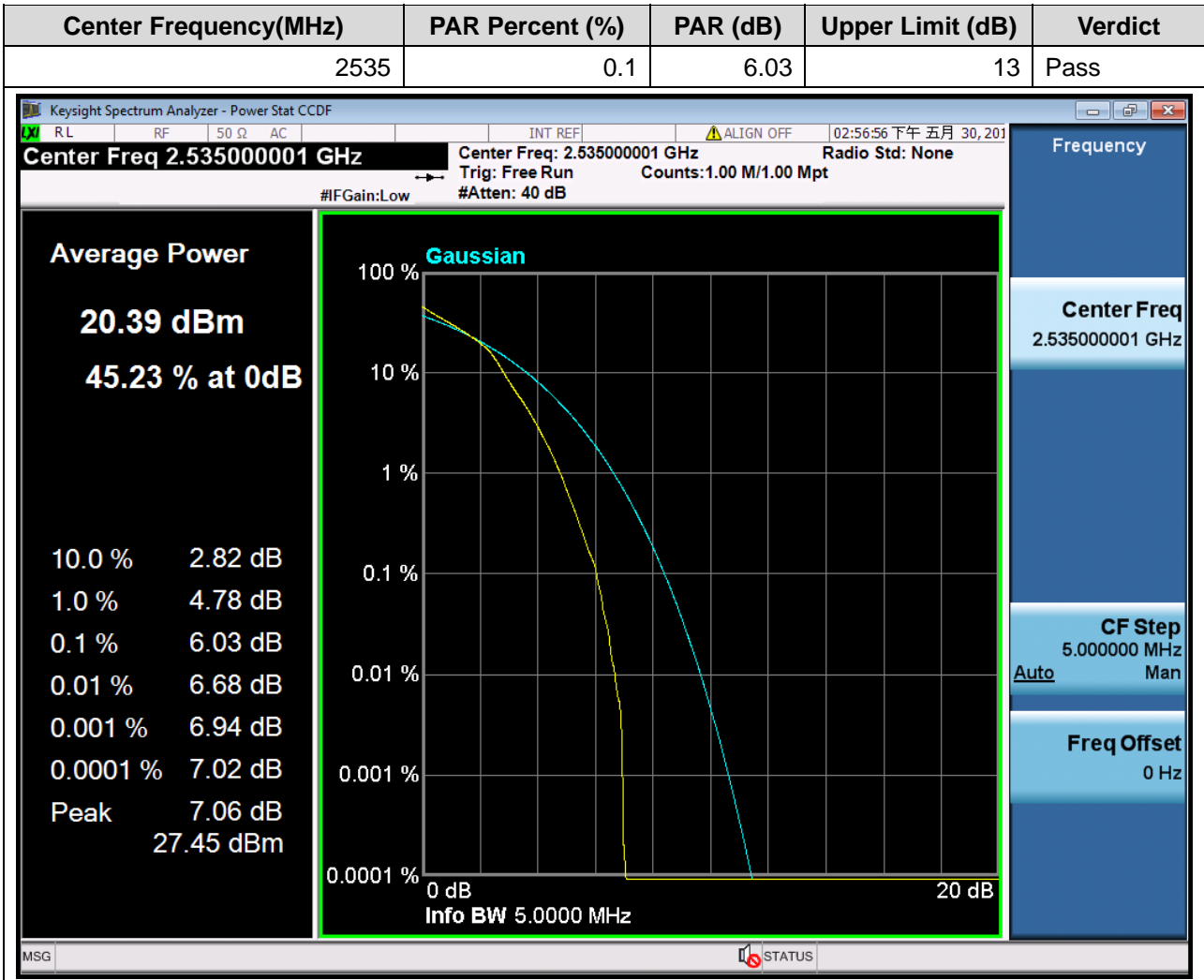




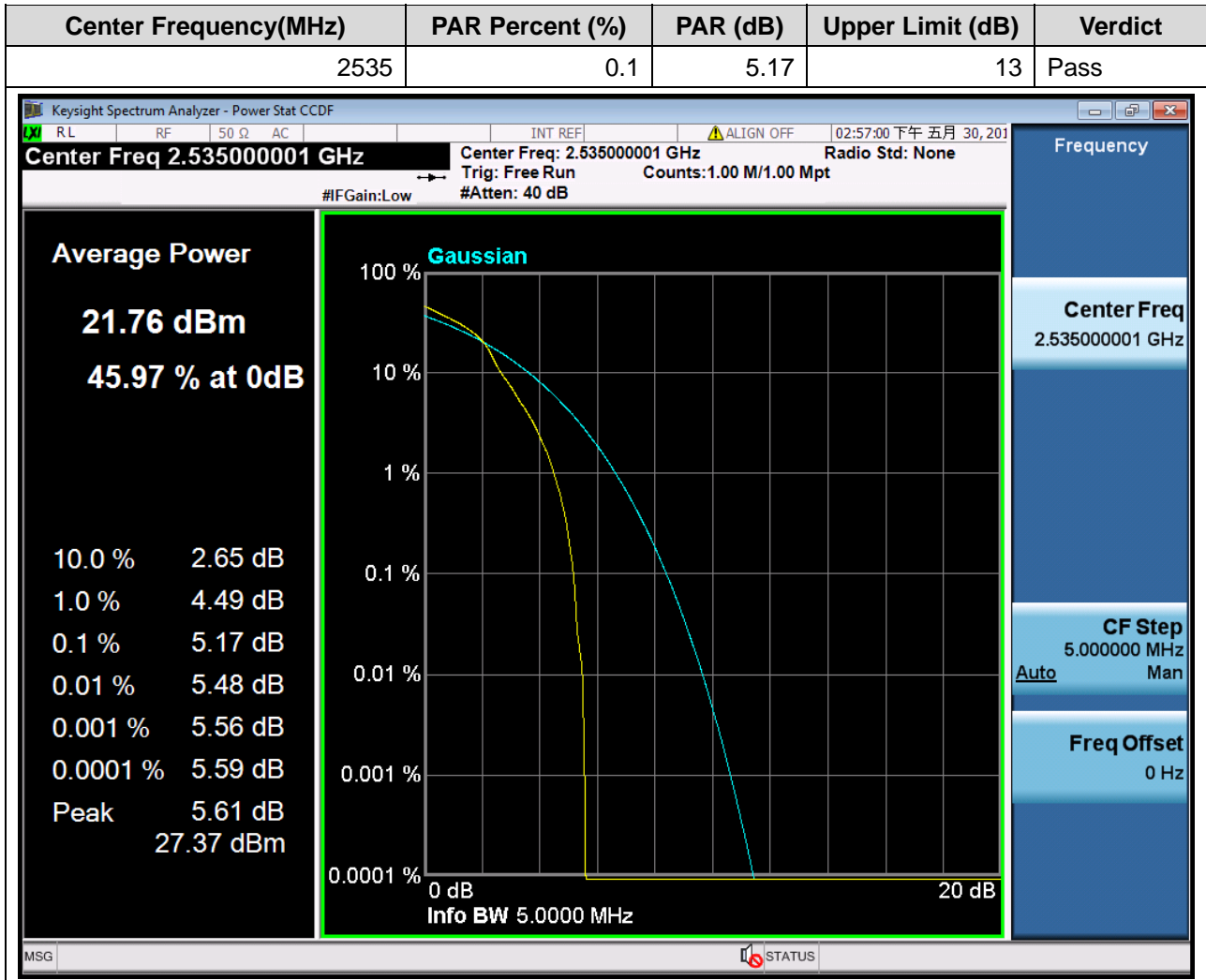
**1.24. LTE Peak to Average Ratio(NTNV)(Subtest:24, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:MID)**



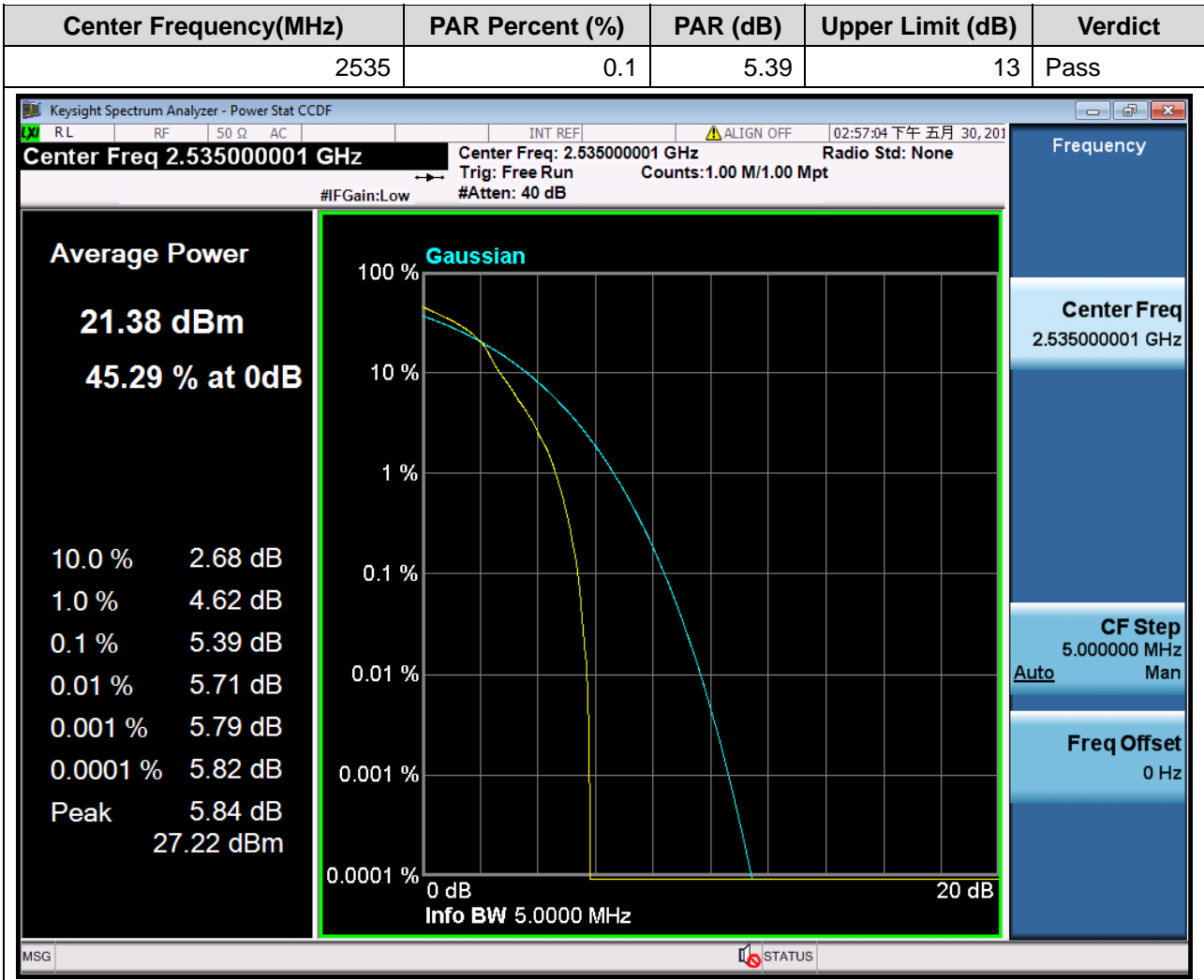
**1.25. LTE Peak to Average Ratio(NTNV)(Subtest:25, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:HIGH)**



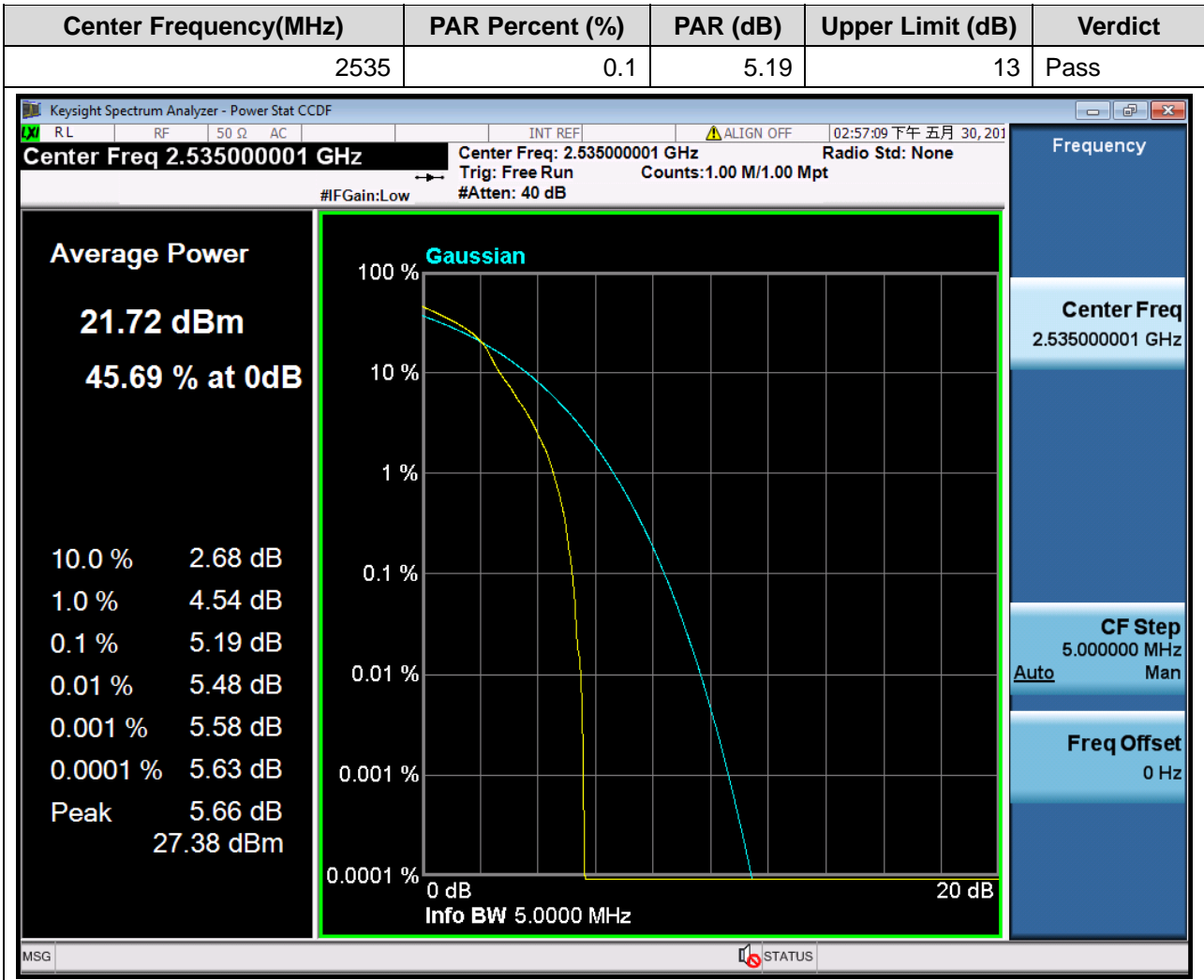
**1.26. LTE Peak to Average Ratio(NTNV)(Subtest:26, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)**



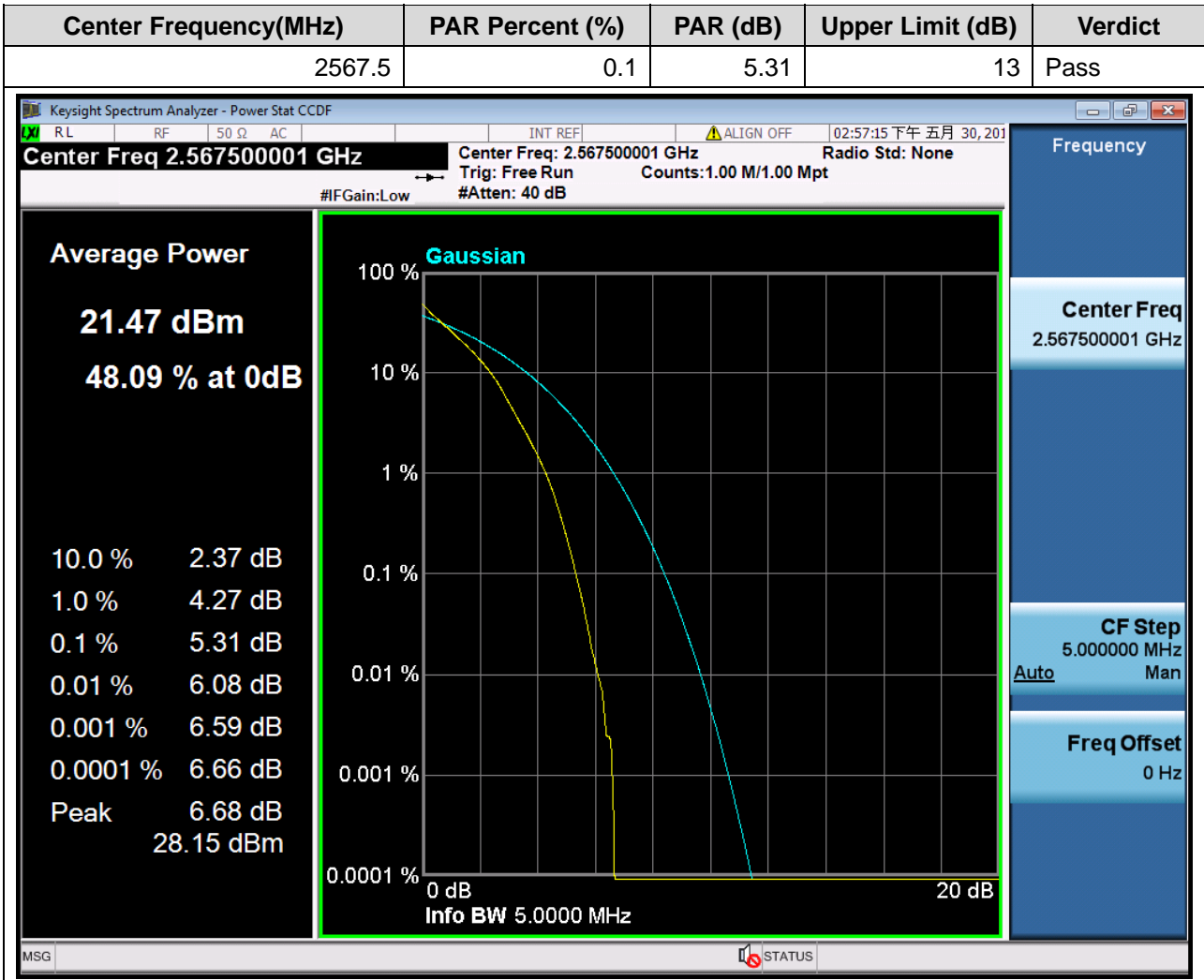
**1.27. LTE Peak to Average Ratio(NTNV)(Subtest:27, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:MID)**



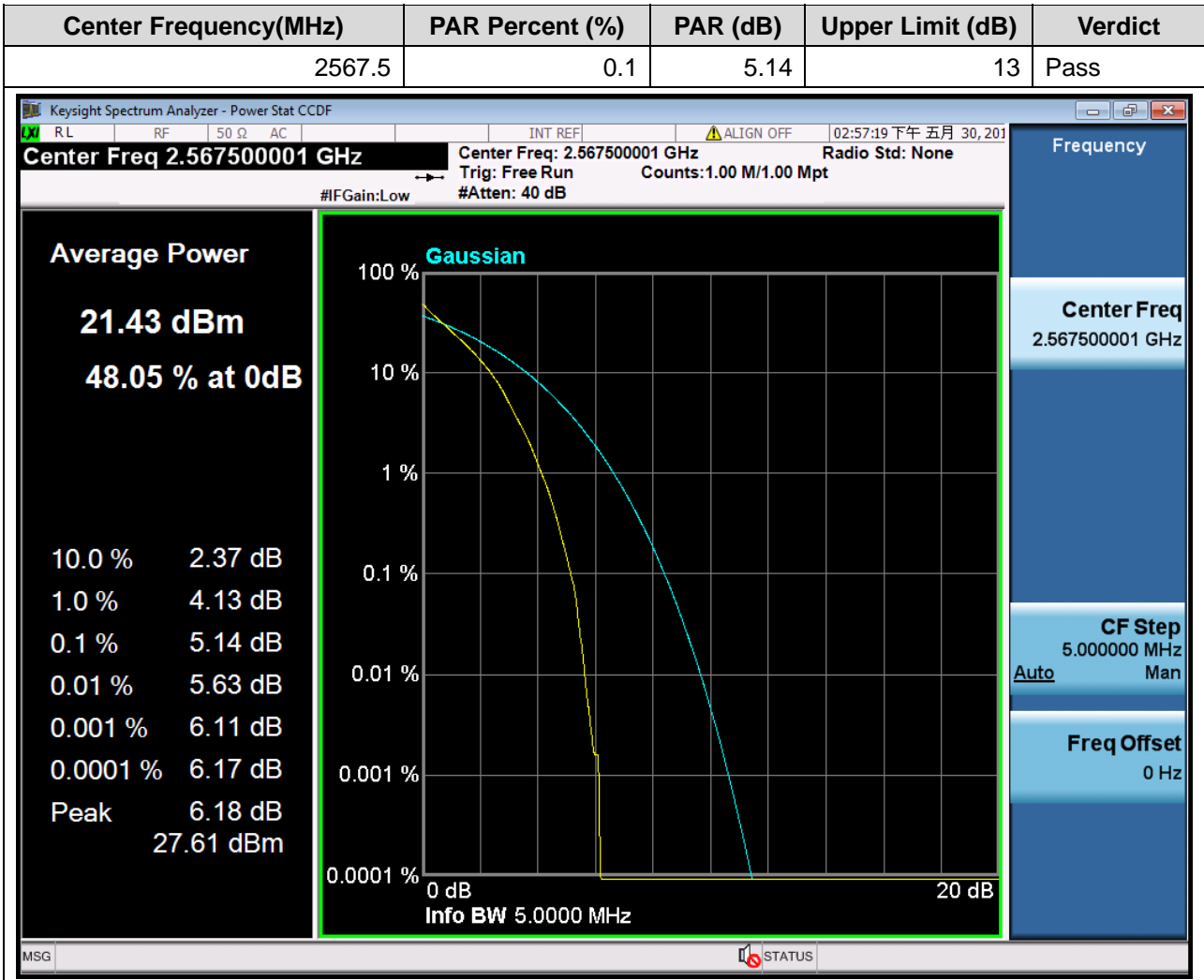
**1.28. LTE Peak to Average Ratio(NTNV)(Subtest:28, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)**



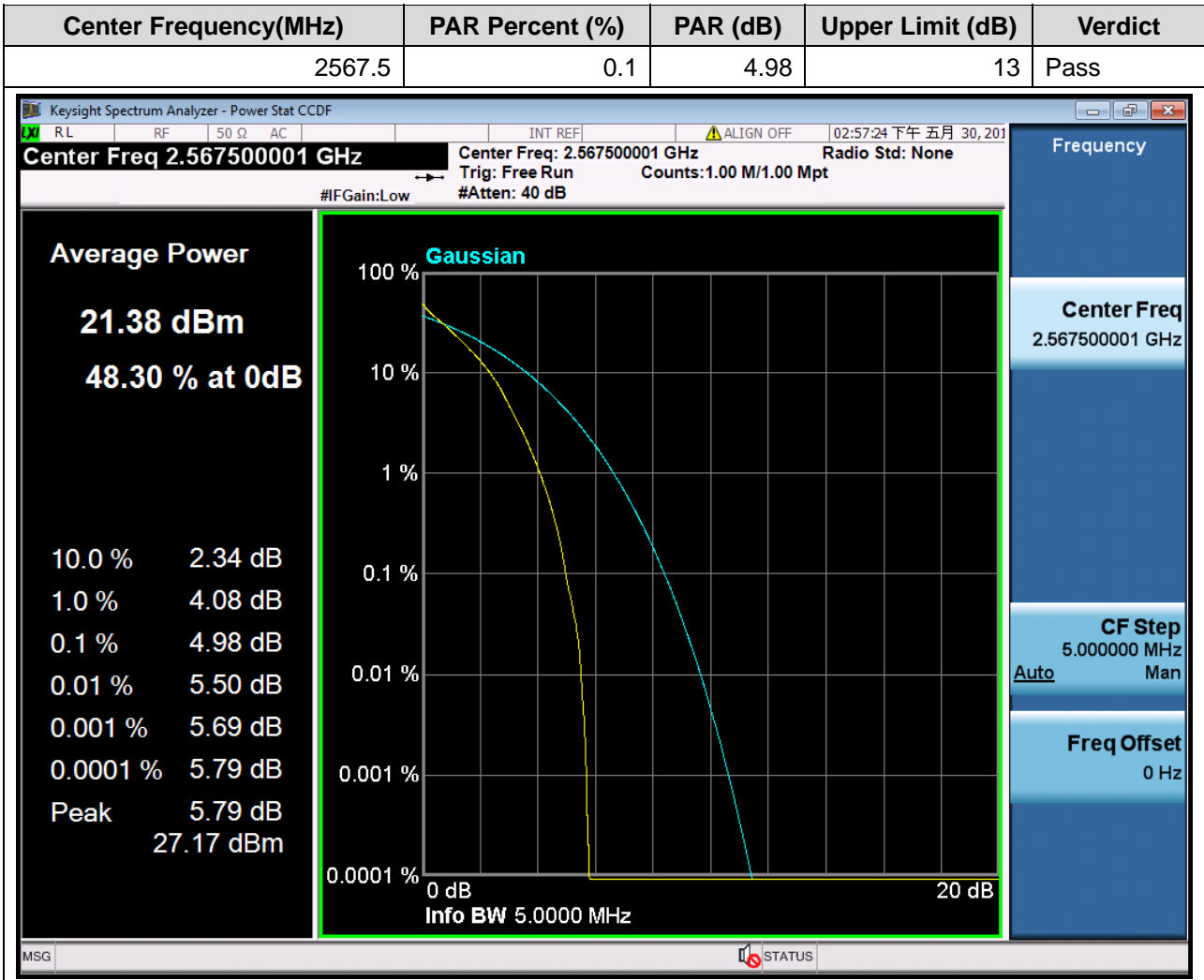
**1.29. LTE Peak to Average Ratio(NTNV)(Subtest:29, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



**1.30. LTE Peak to Average Ratio(NTNV)(Subtest:30, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:LOW)**

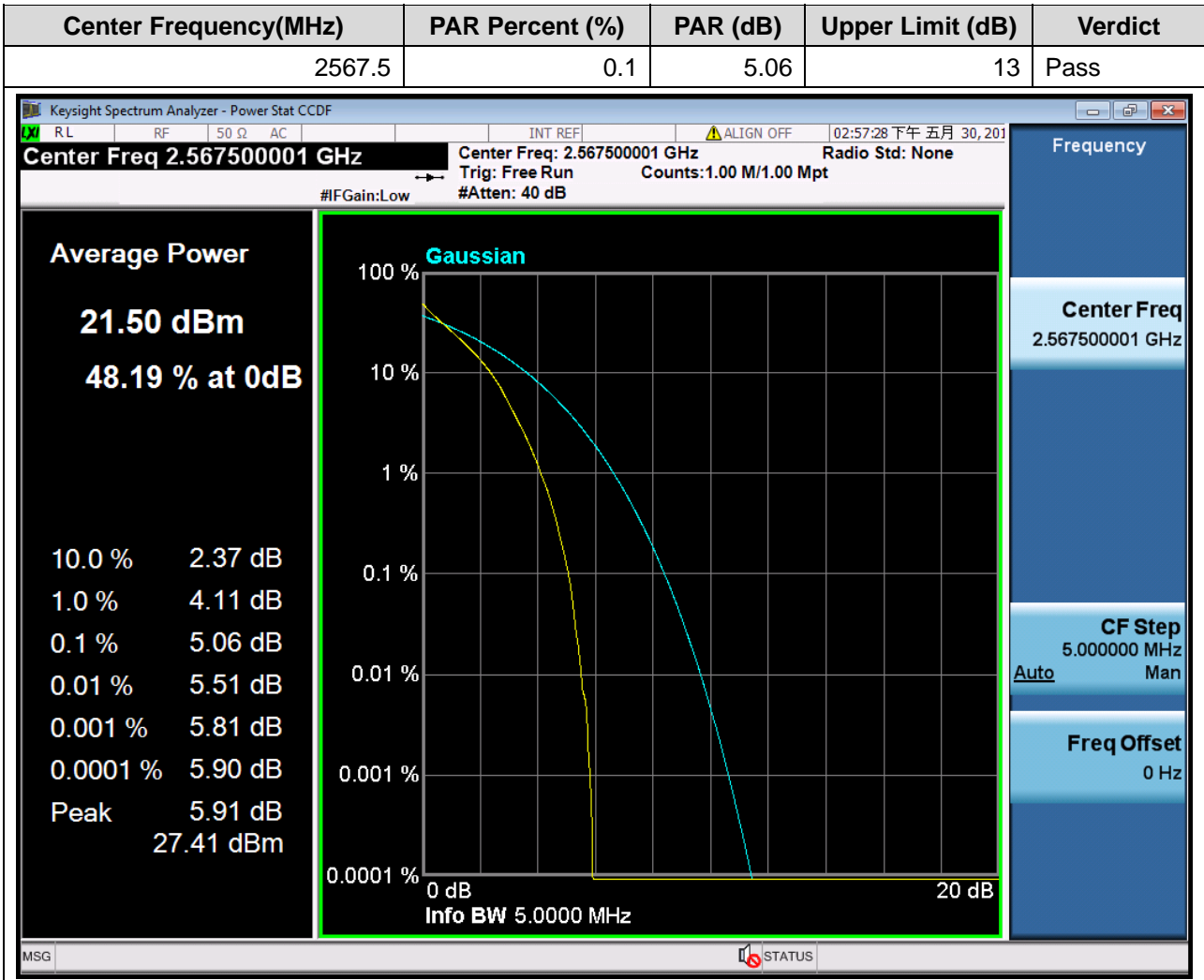


**1.31. LTE Peak to Average Ratio(NTNV)(Subtest:31, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:MID)**

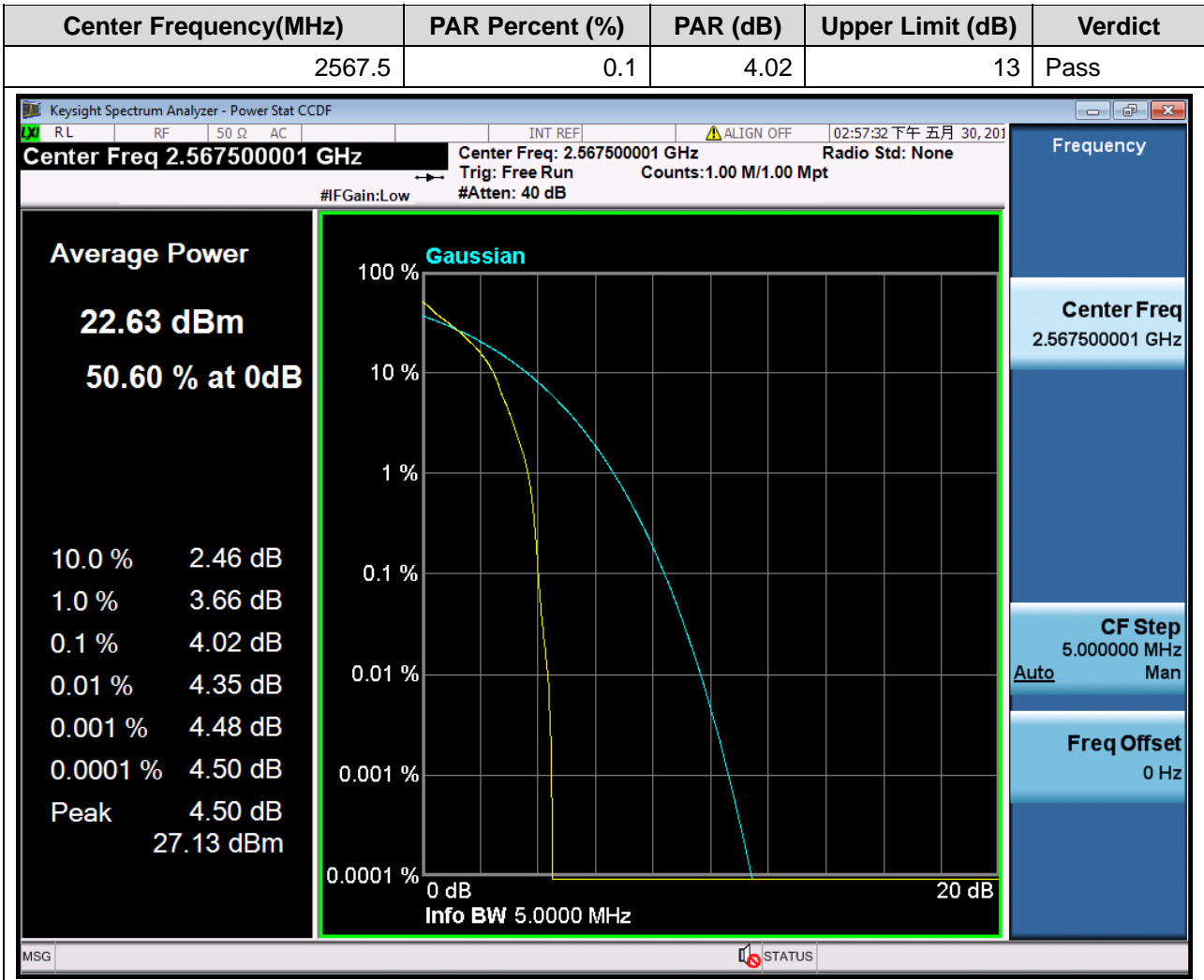




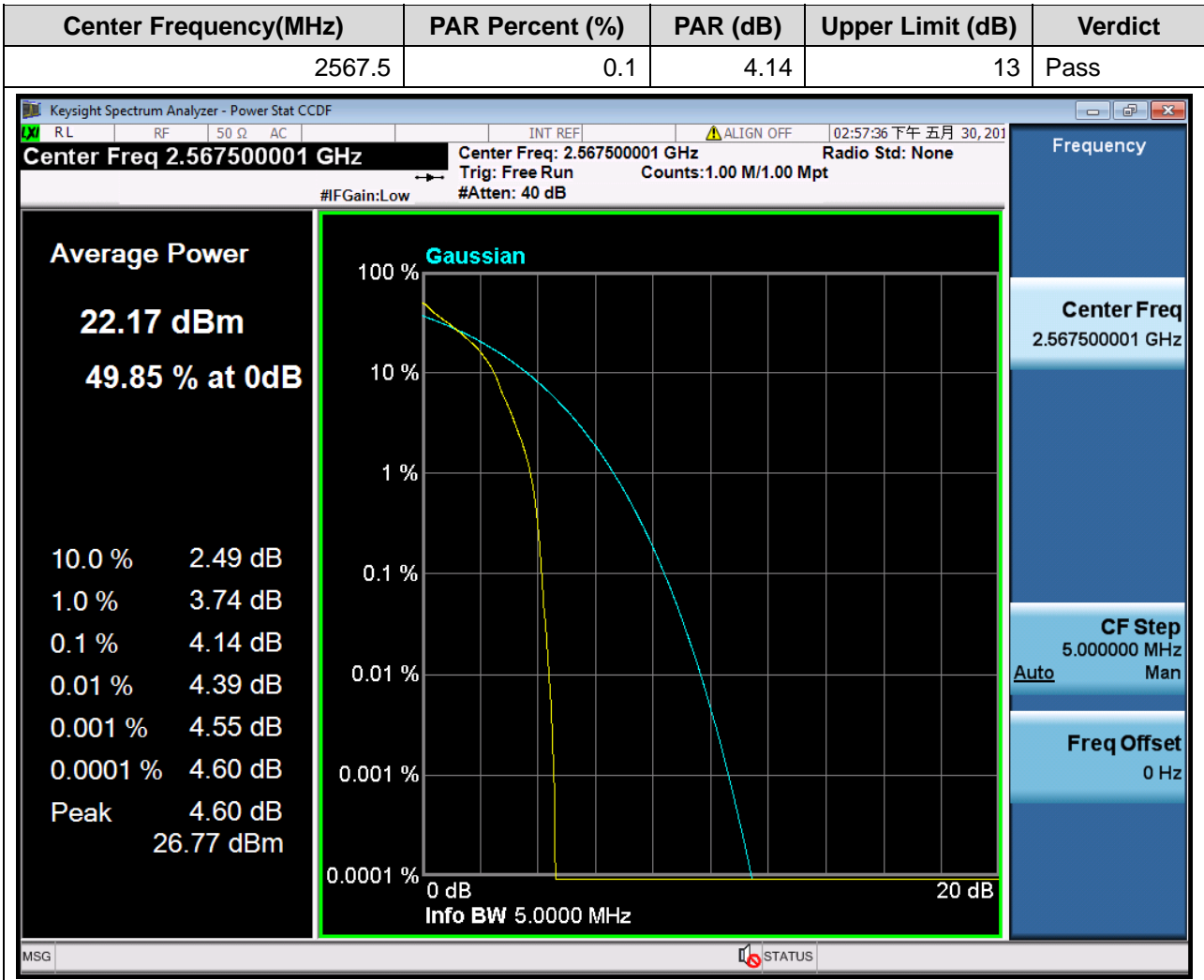
**1.32. LTE Peak to Average Ratio(NTNV)(Subtest:32, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 12, RB Position:HIGH)**



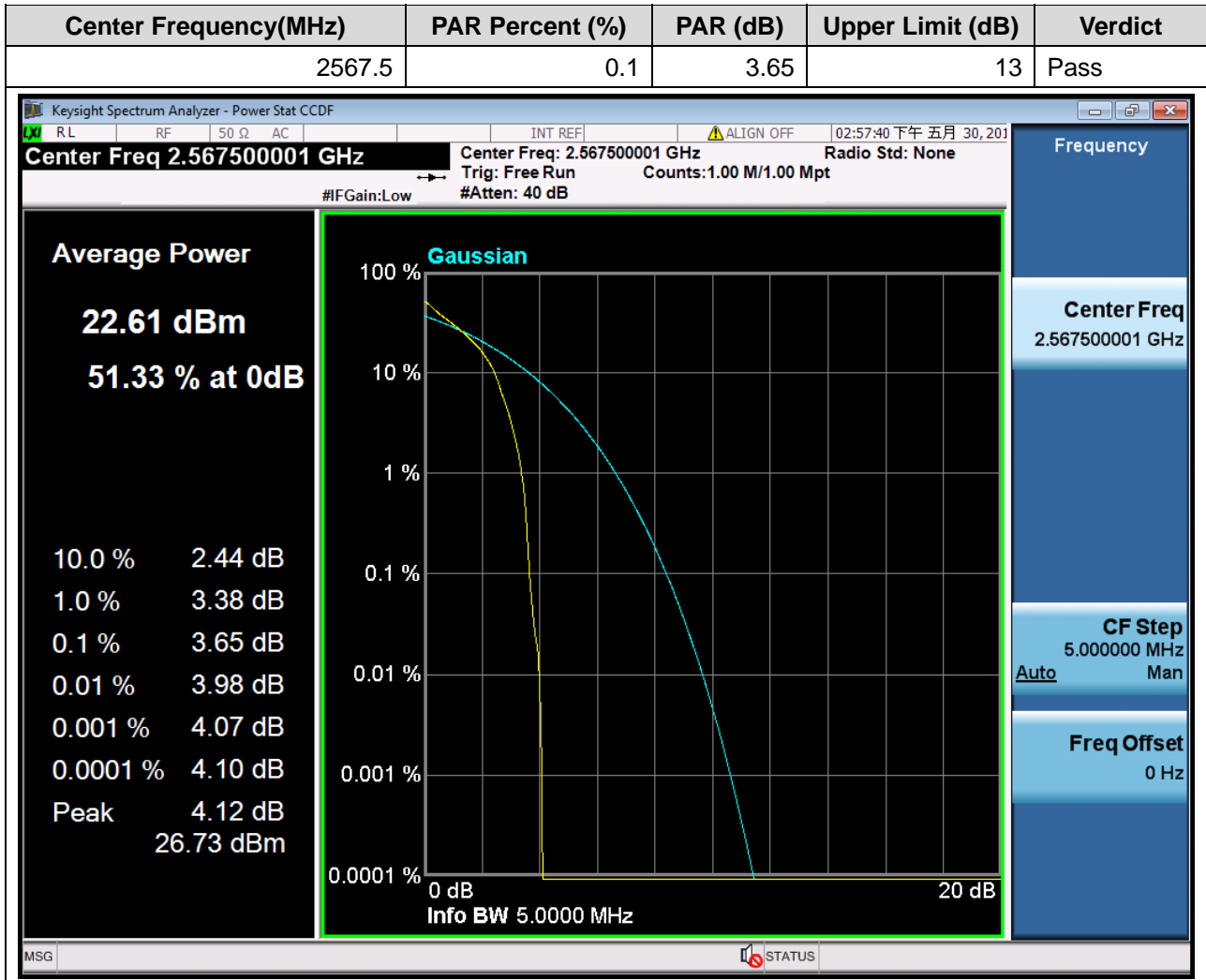
**1.33. LTE Peak to Average Ratio(NTNV)(Subtest:33, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



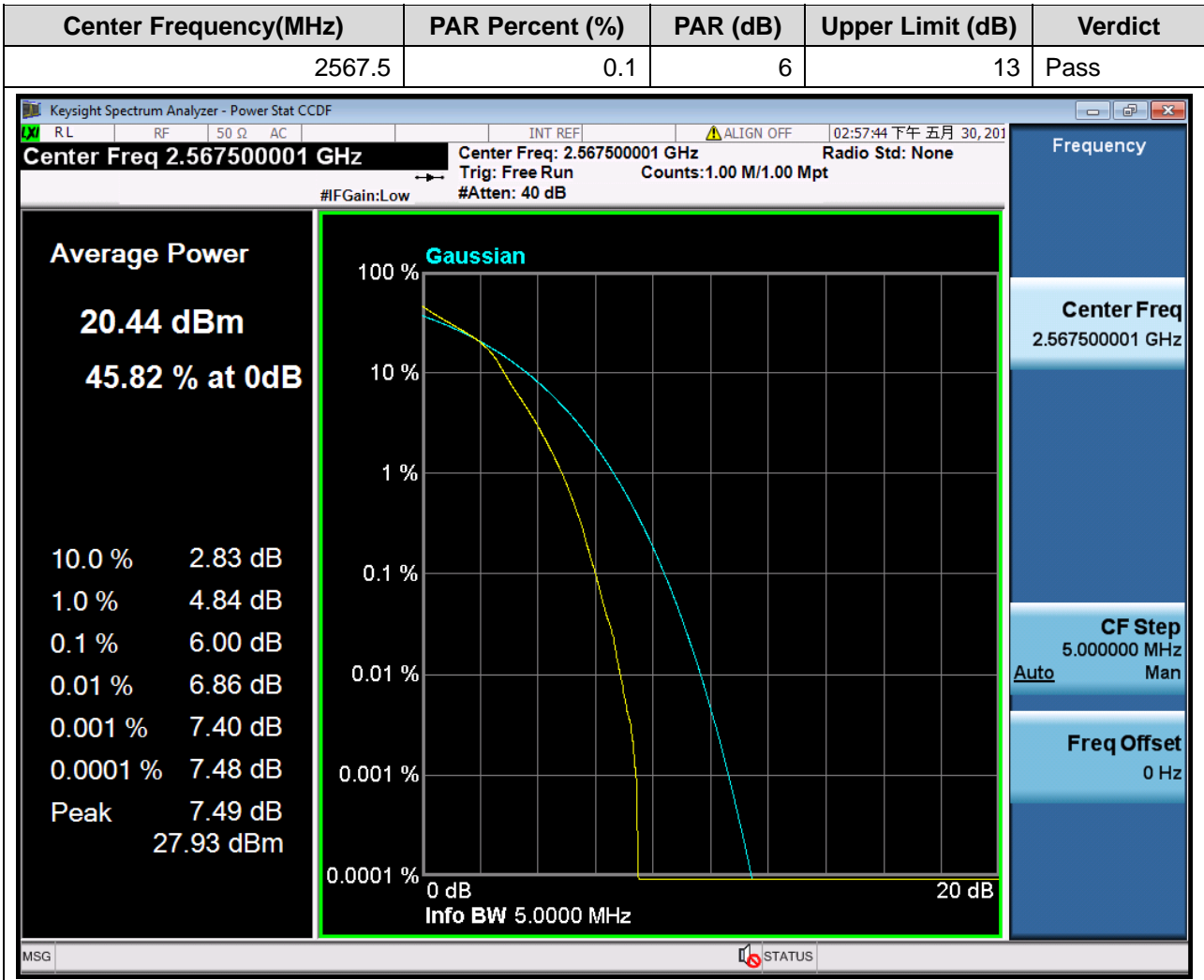
**1.34. LTE Peak to Average Ratio(NTNV)(Subtest:34, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:MID)**



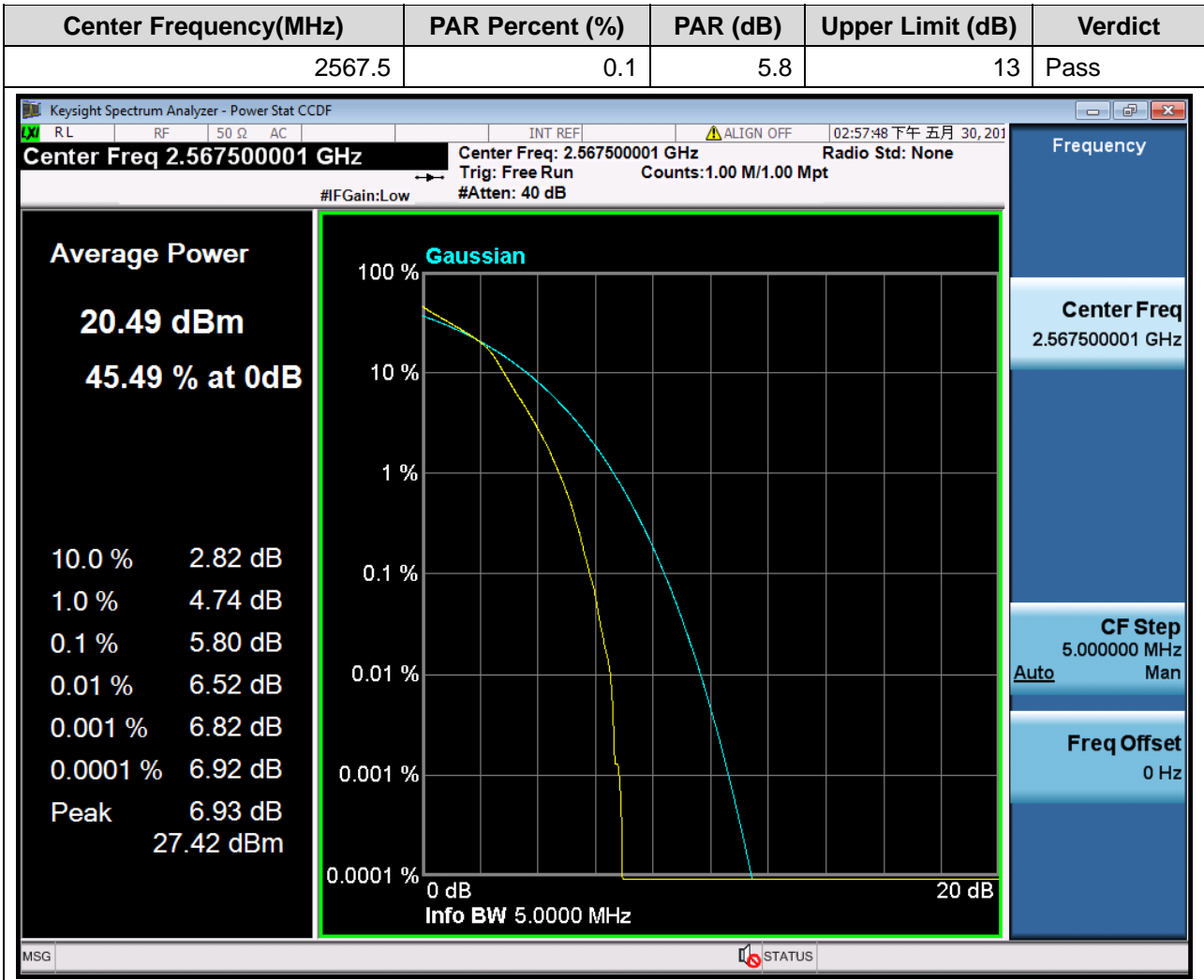
**1.35. LTE Peak to Average Ratio(NTNV)(Subtest:35, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 1, RB Position:HIGH)**



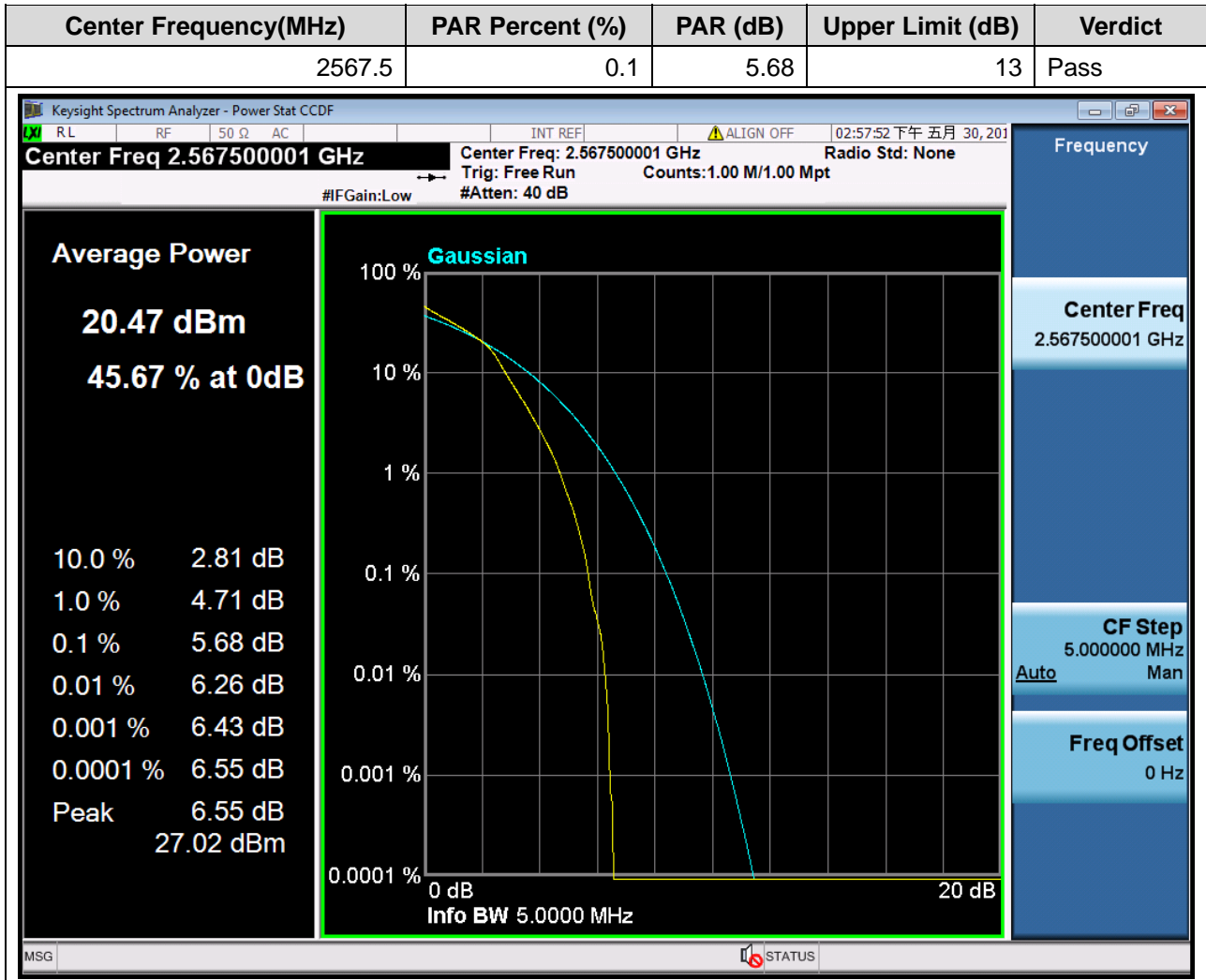
**1.36. LTE Peak to Average Ratio(NTNV)(Subtest:36, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



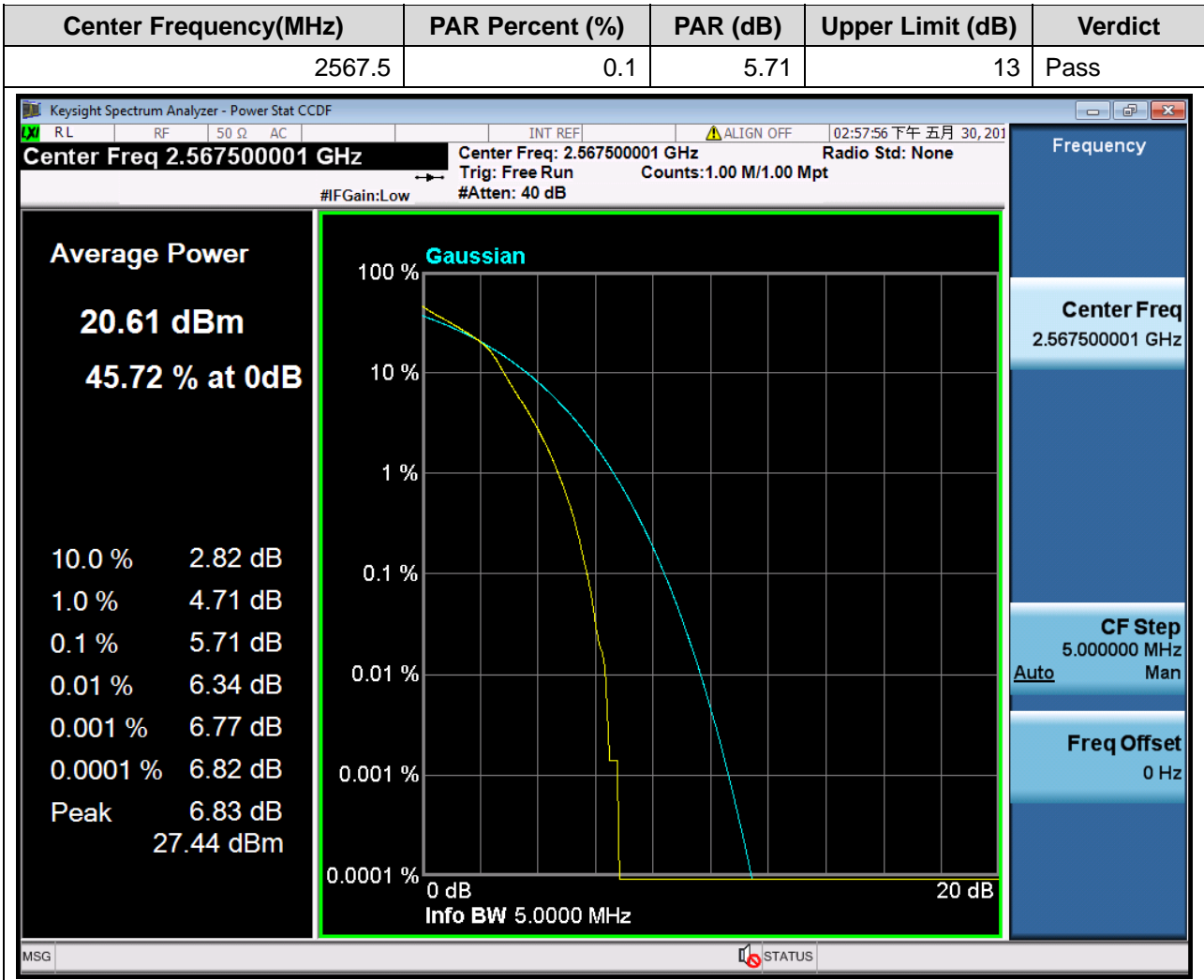
**1.37. LTE Peak to Average Ratio(NTNV)(Subtest:37, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:LOW)**



**1.38. LTE Peak to Average Ratio(NTNV)(Subtest:38, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:MID)**

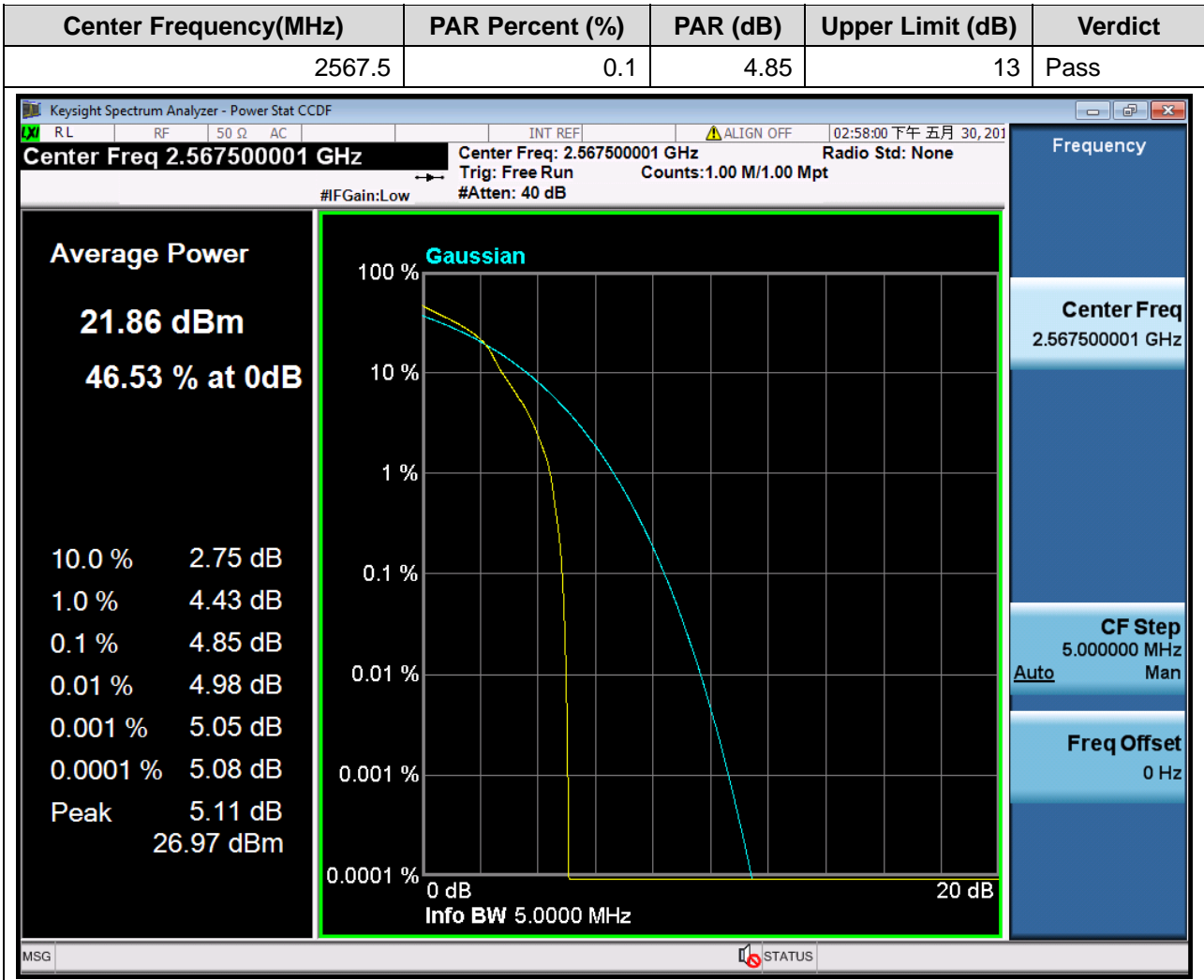


**1.39. LTE Peak to Average Ratio(NTNV)(Subtest:39, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 12, RB Position:HIGH)**

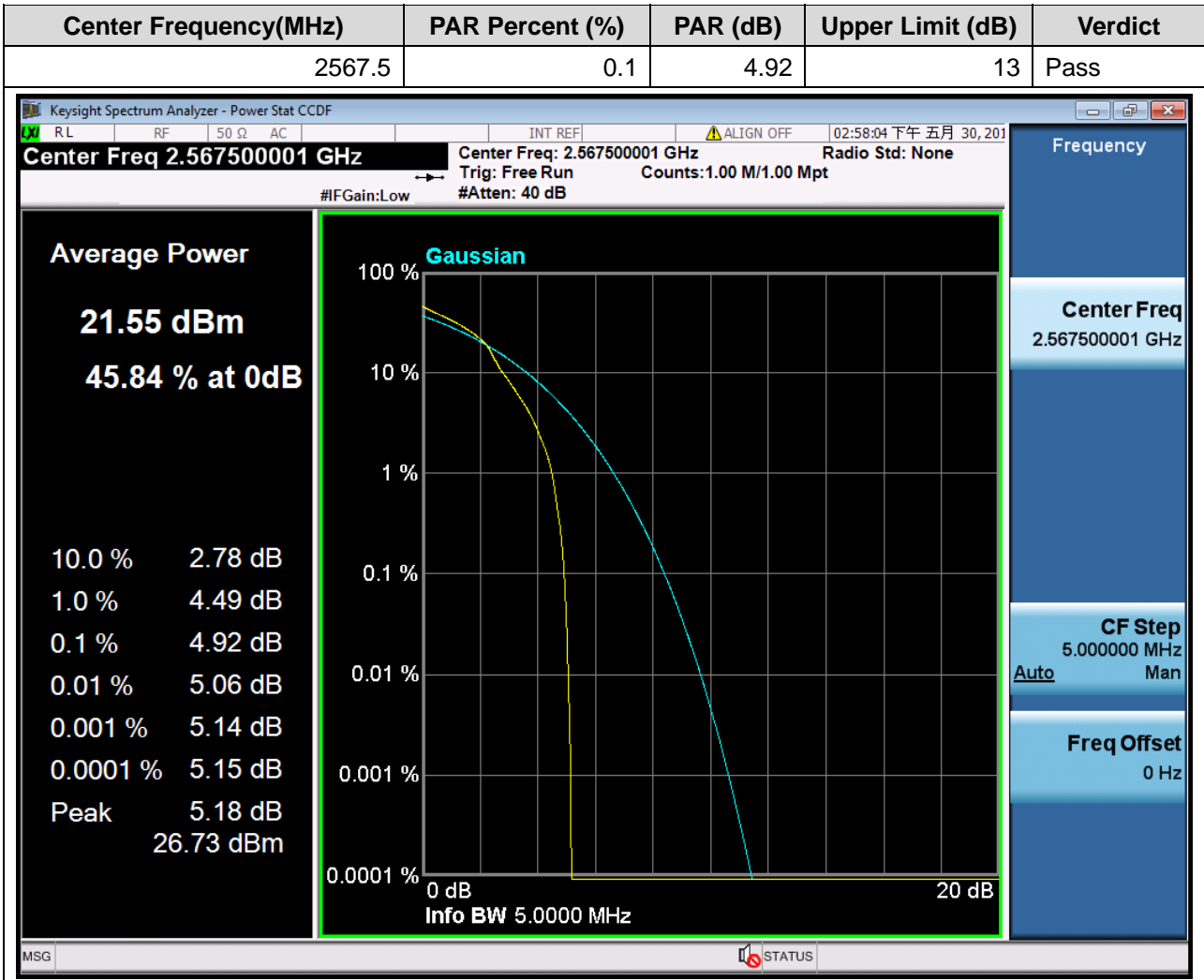




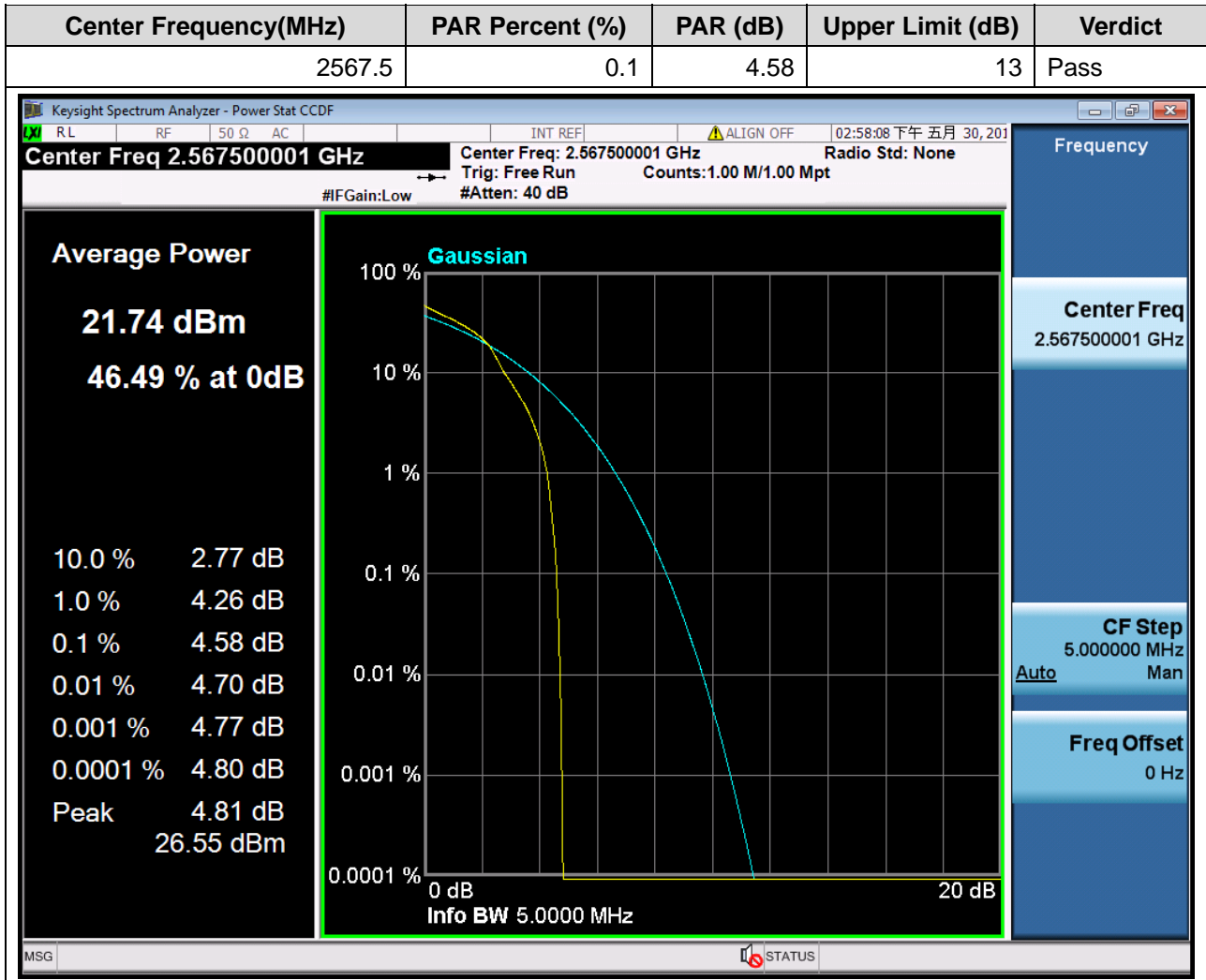
**1.40. LTE Peak to Average Ratio(NTNV)(Subtest:40, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:LOW)**



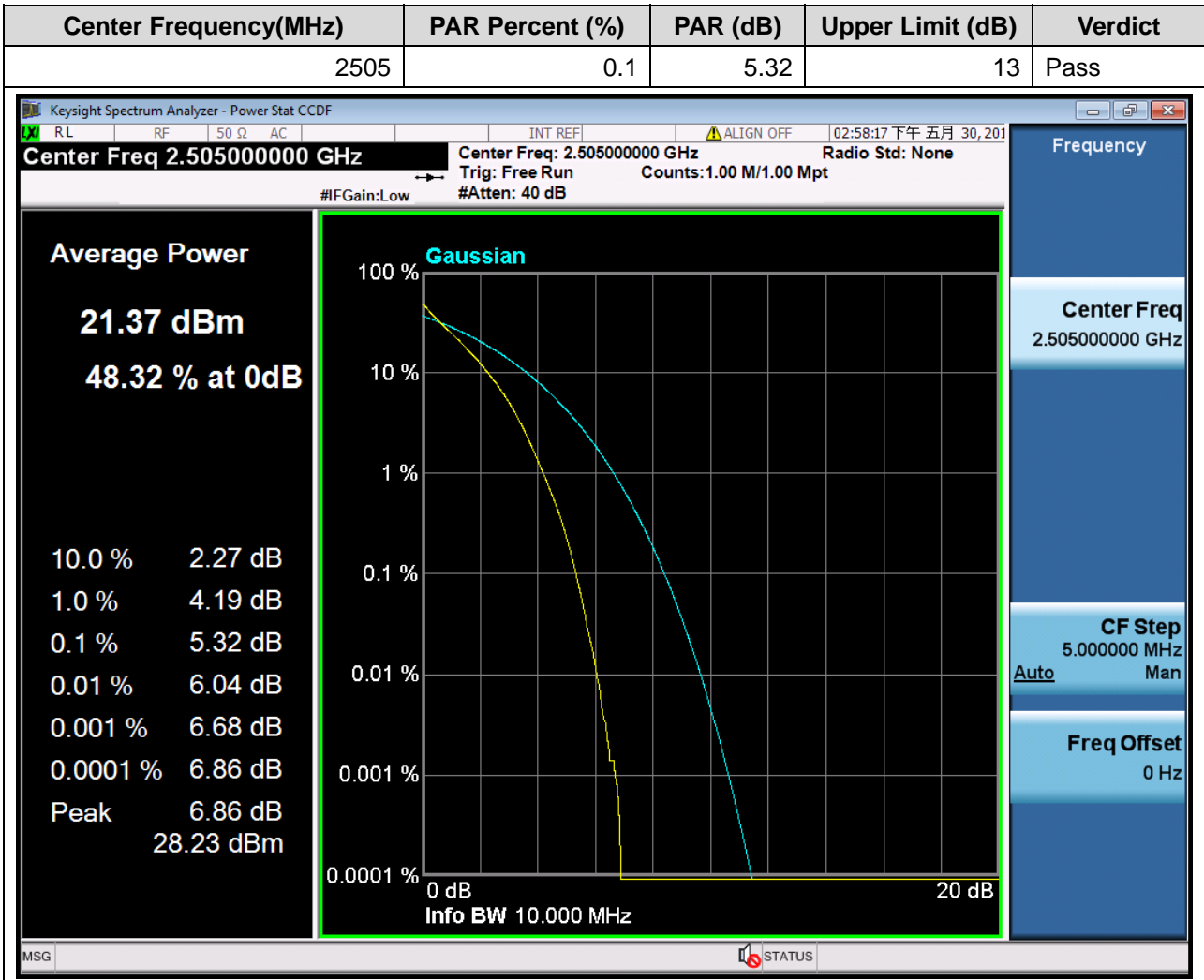
**1.41. LTE Peak to Average Ratio(NTNV)(Subtest:41, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:MID)**



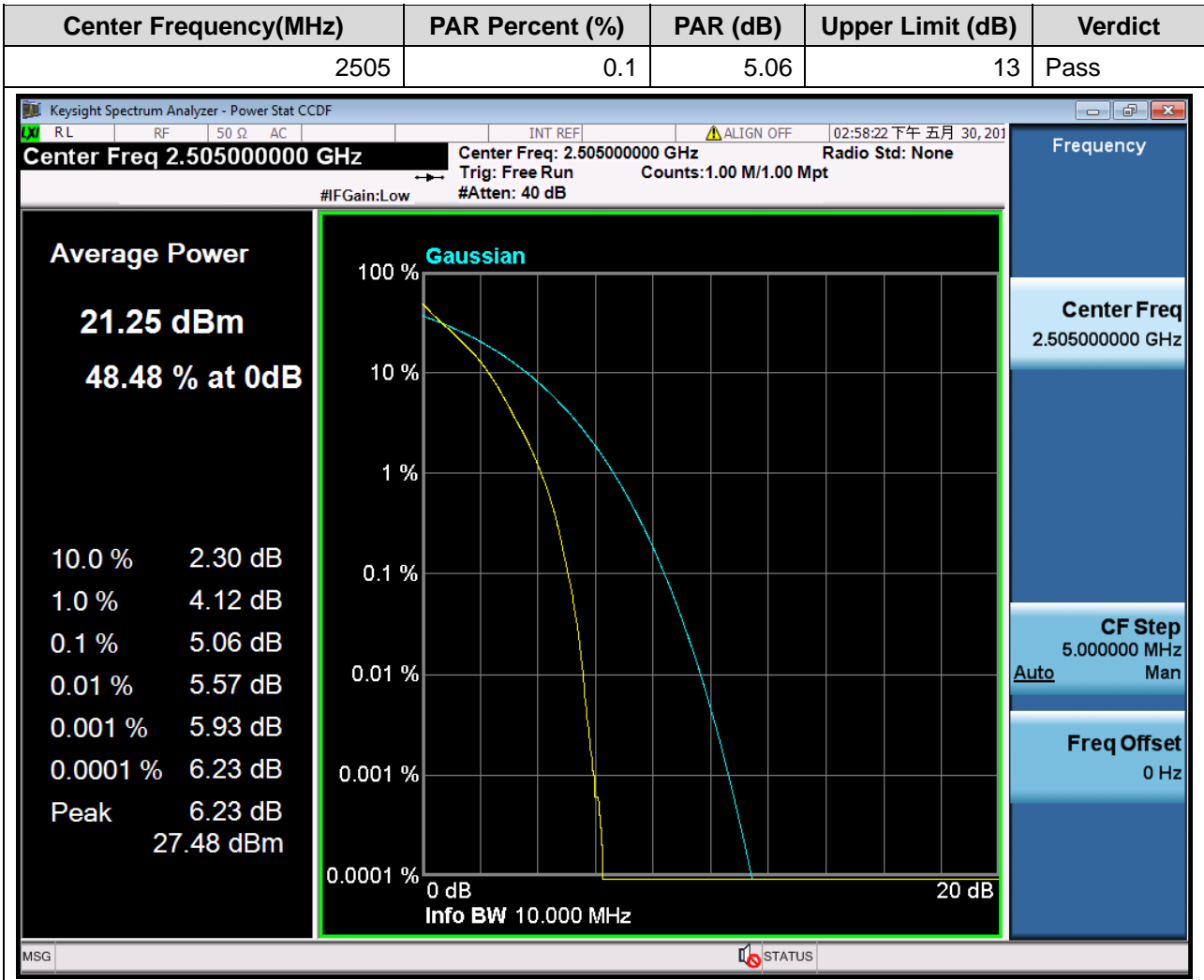
**1.42. LTE Peak to Average Ratio(NTNV)(Subtest:42, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 1, RB Position:HIGH)**



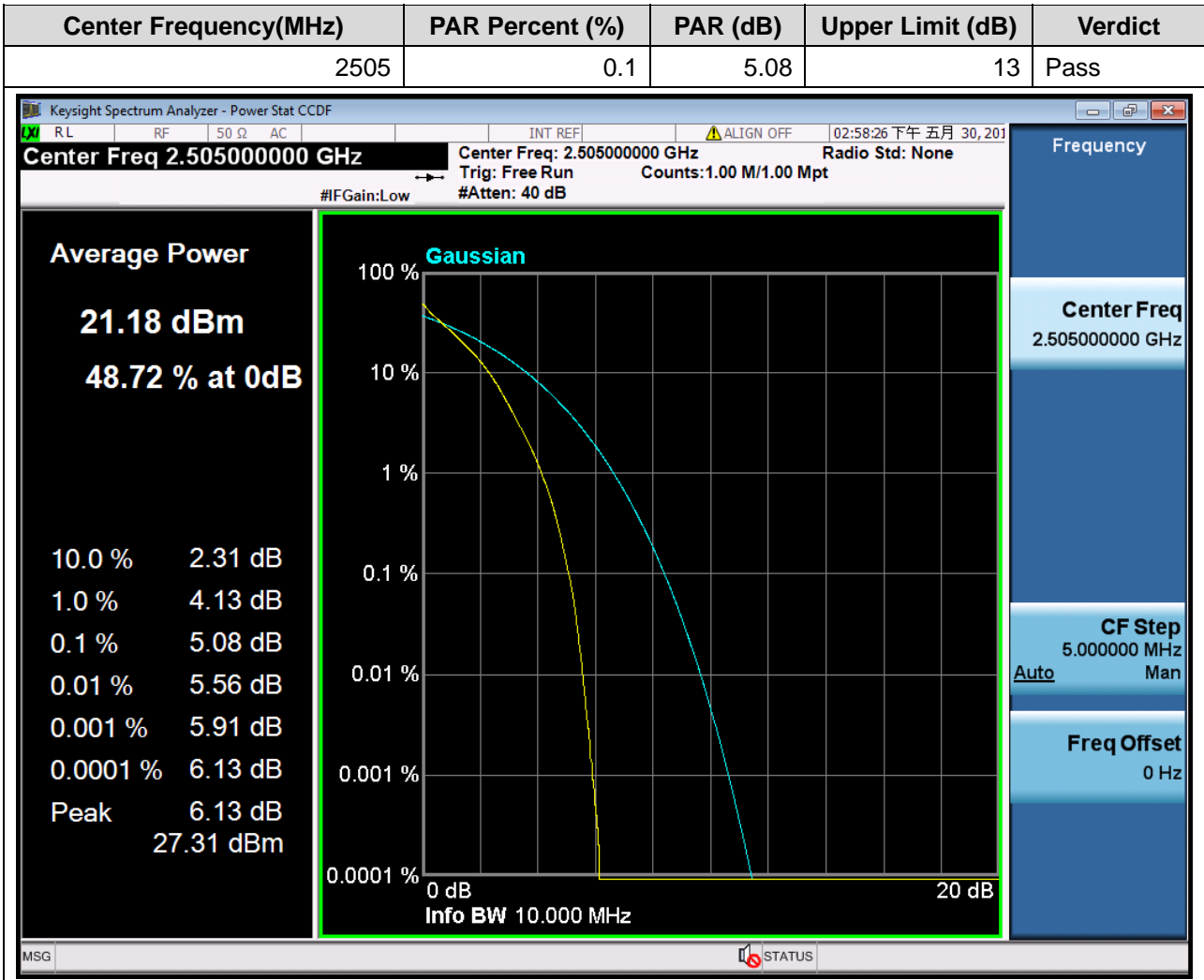
**1.43. LTE Peak to Average Ratio(NTNV)(Subtest:43, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



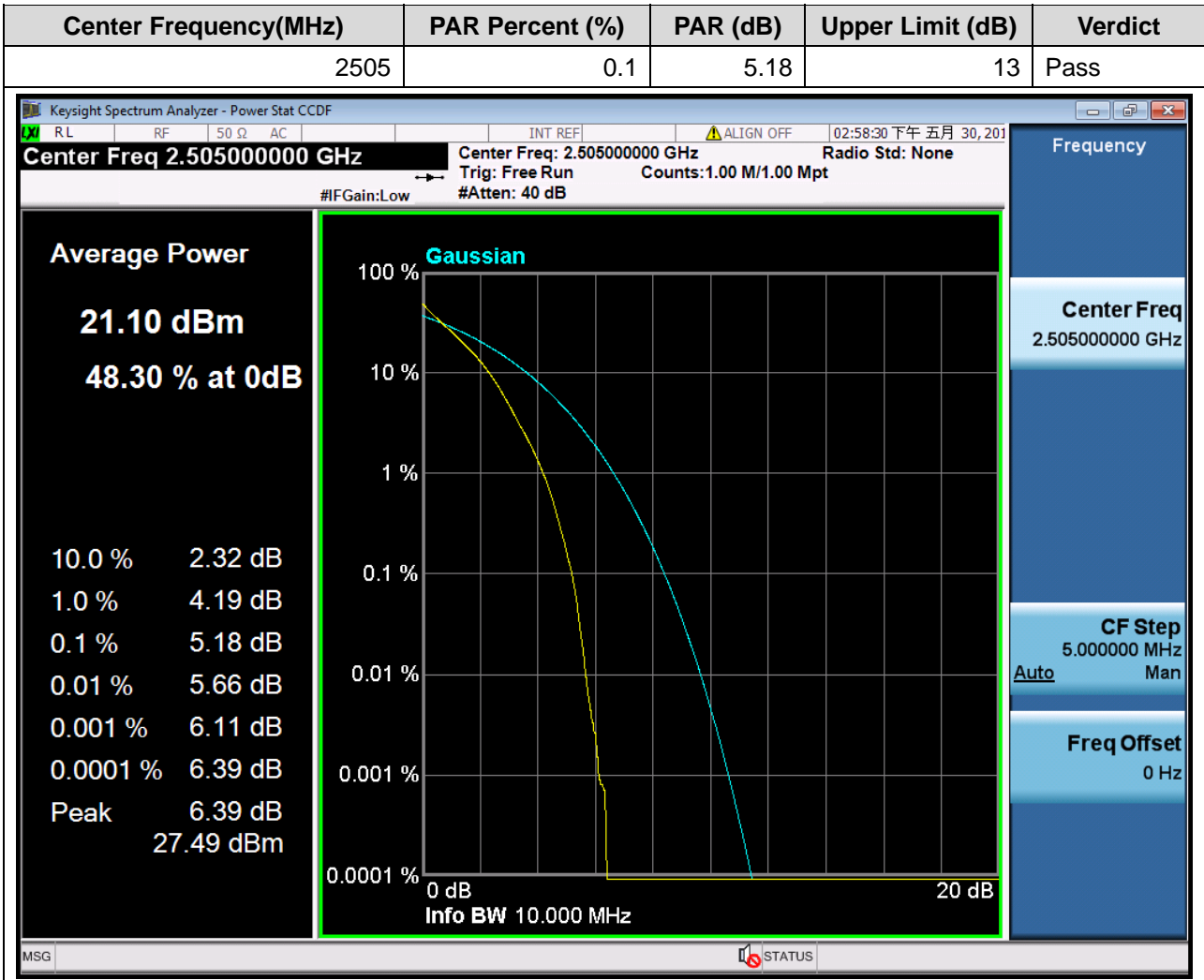
**1.44. LTE Peak to Average Ratio(NTNV)(Subtest:44, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



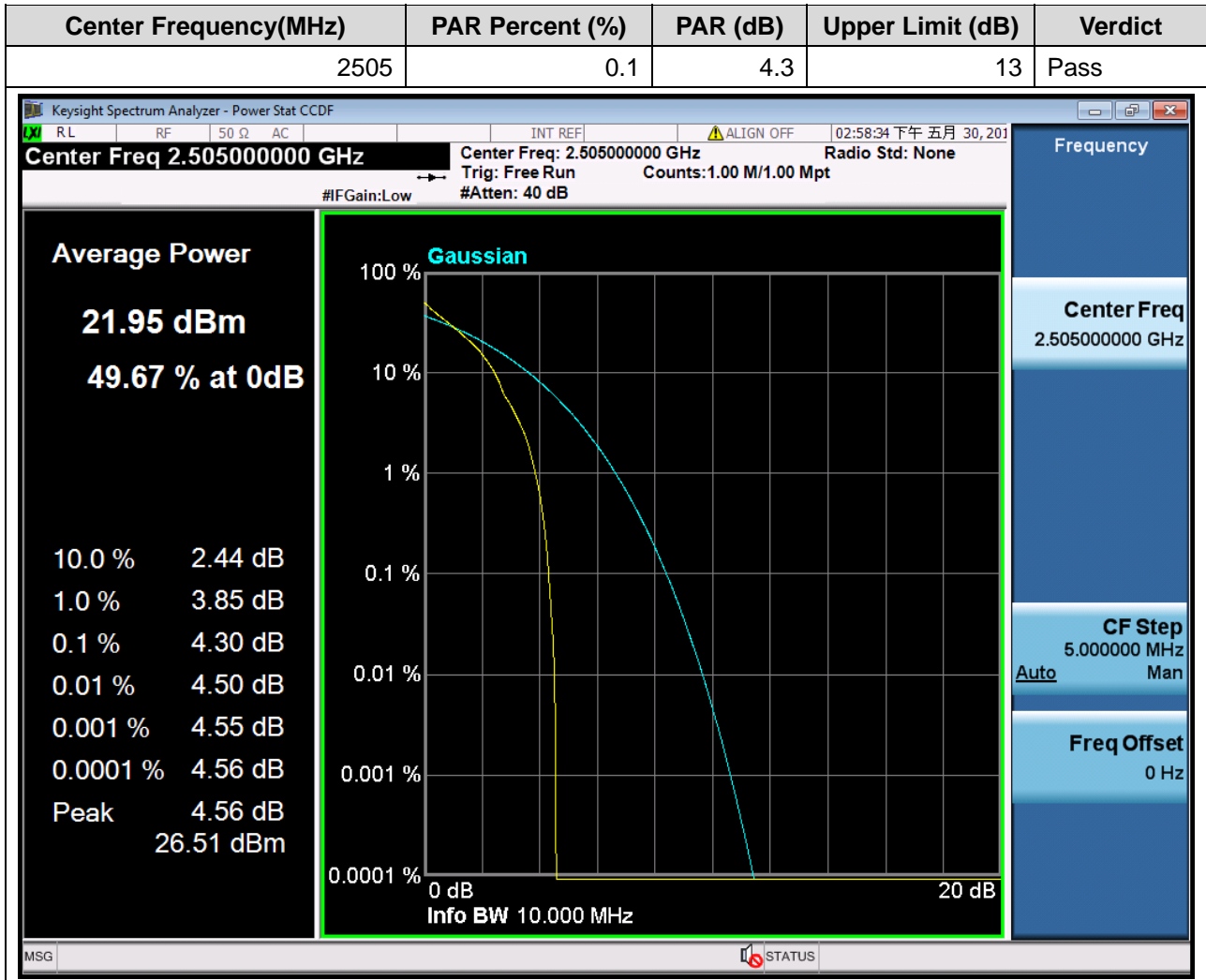
**1.45. LTE Peak to Average Ratio(NTNV)(Subtest:45, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:MID)**



**1.46. LTE Peak to Average Ratio(NTNV)(Subtest:46, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:HIGH)**



**1.47. LTE Peak to Average Ratio(NTNV)(Subtest:47, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**



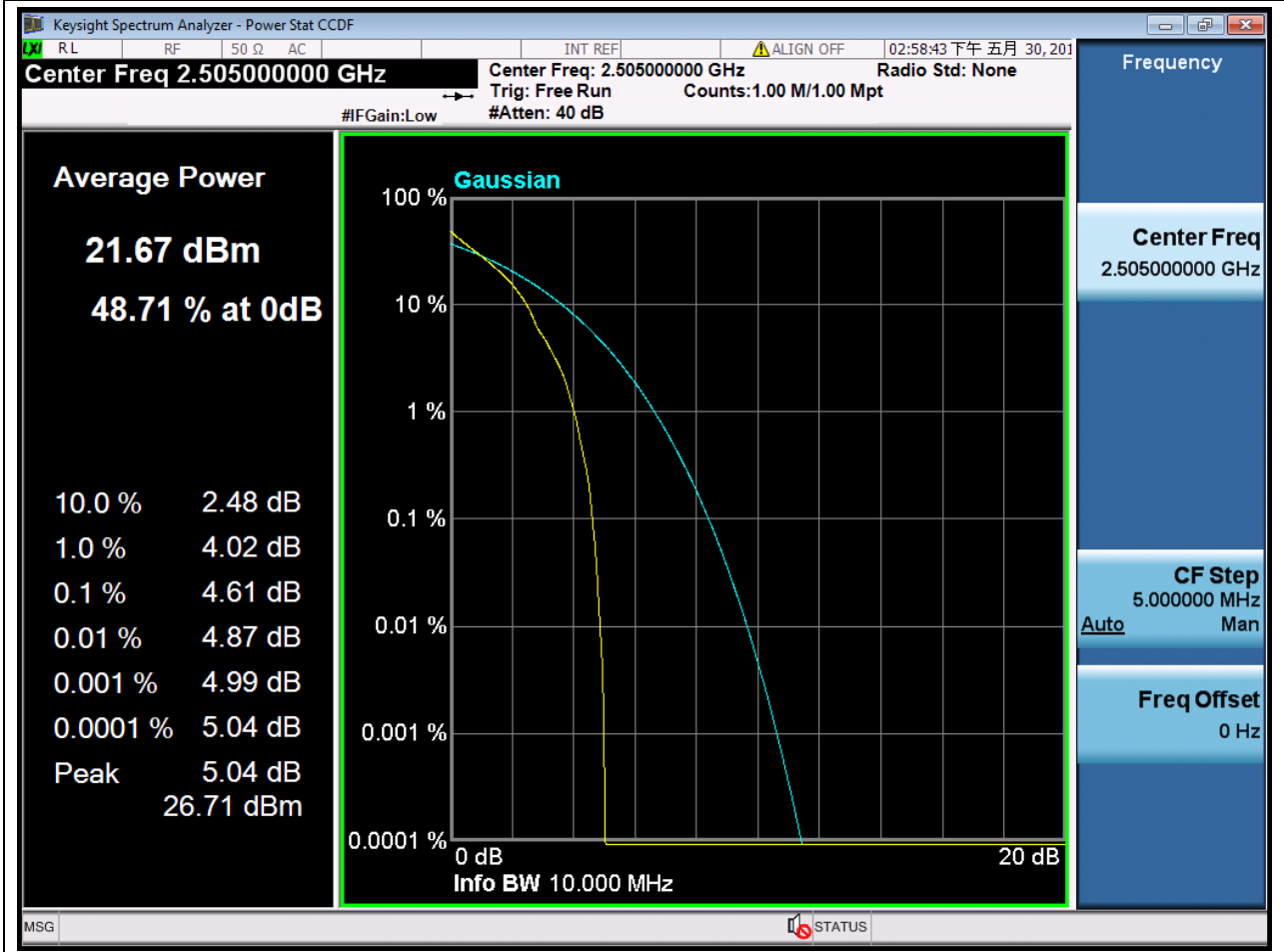


**1.48. LTE Peak to Average Ratio(NTNV)(Subtest:48, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:MID)**

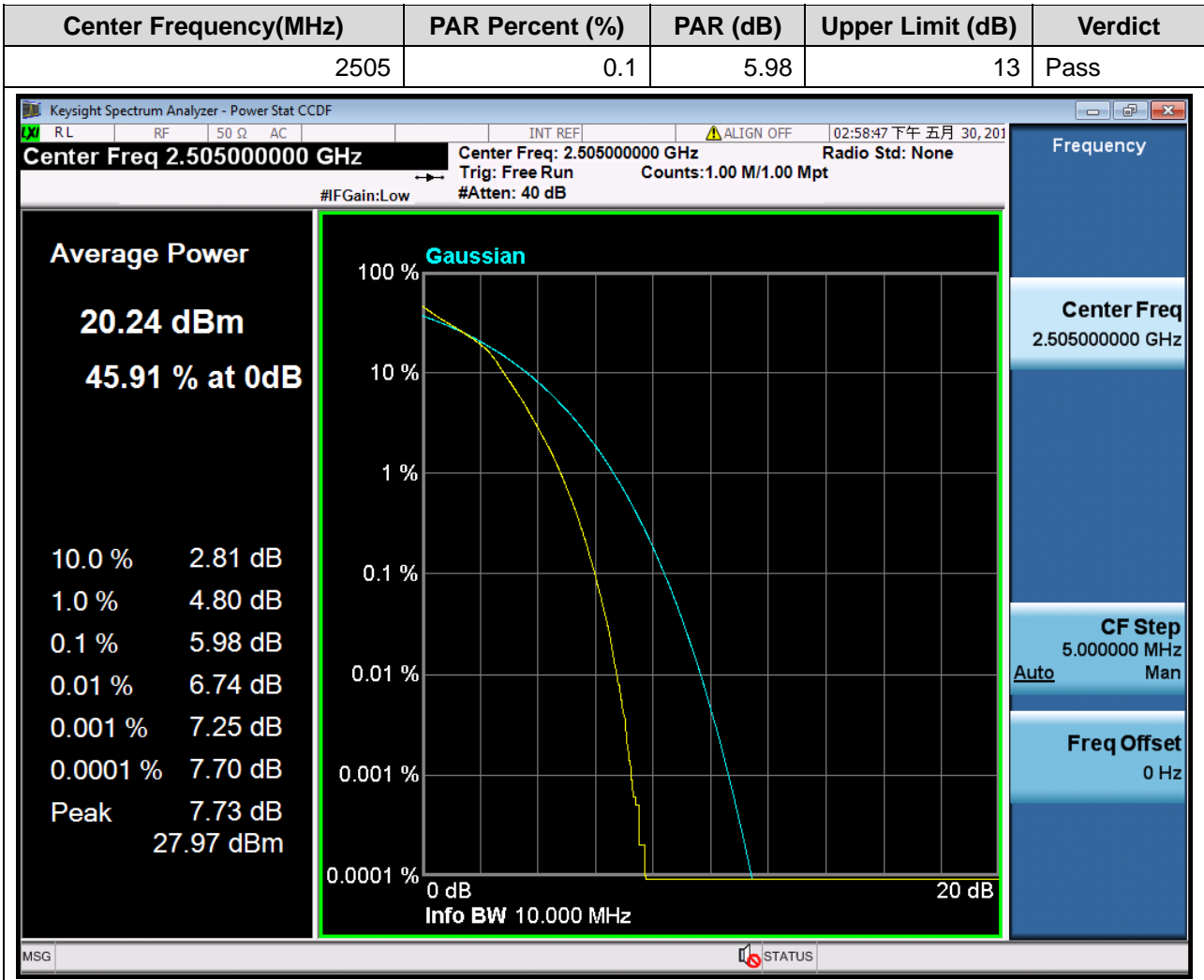


**1.49. LTE Peak to Average Ratio(NTNV)(Subtest:49, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)**

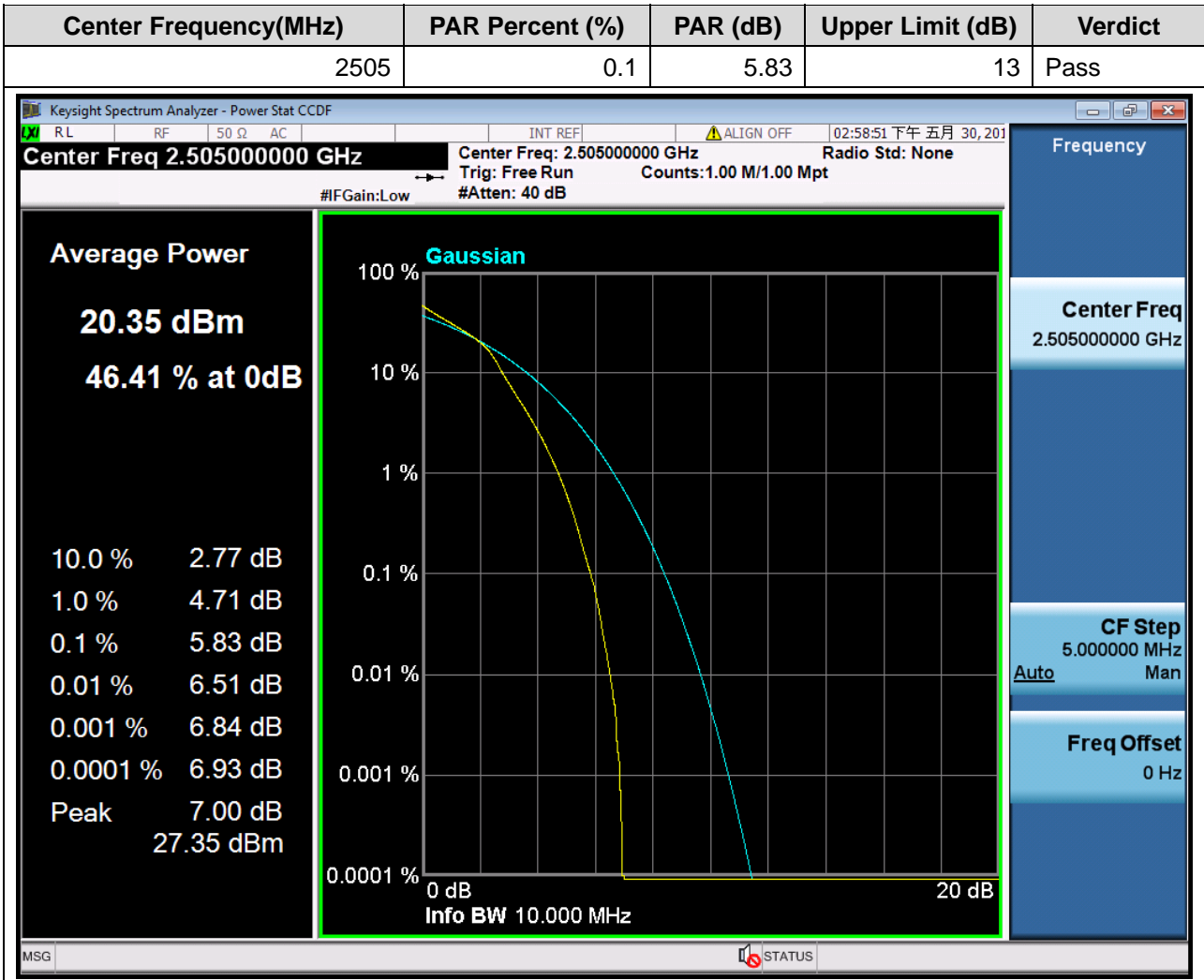
| Center Frequency(MHz) | PAR Percent (%) | PAR (dB) | Upper Limit (dB) | Verdict |
|-----------------------|-----------------|----------|------------------|---------|
| 2505                  | 0.1             | 4.61     | 13               | Pass    |



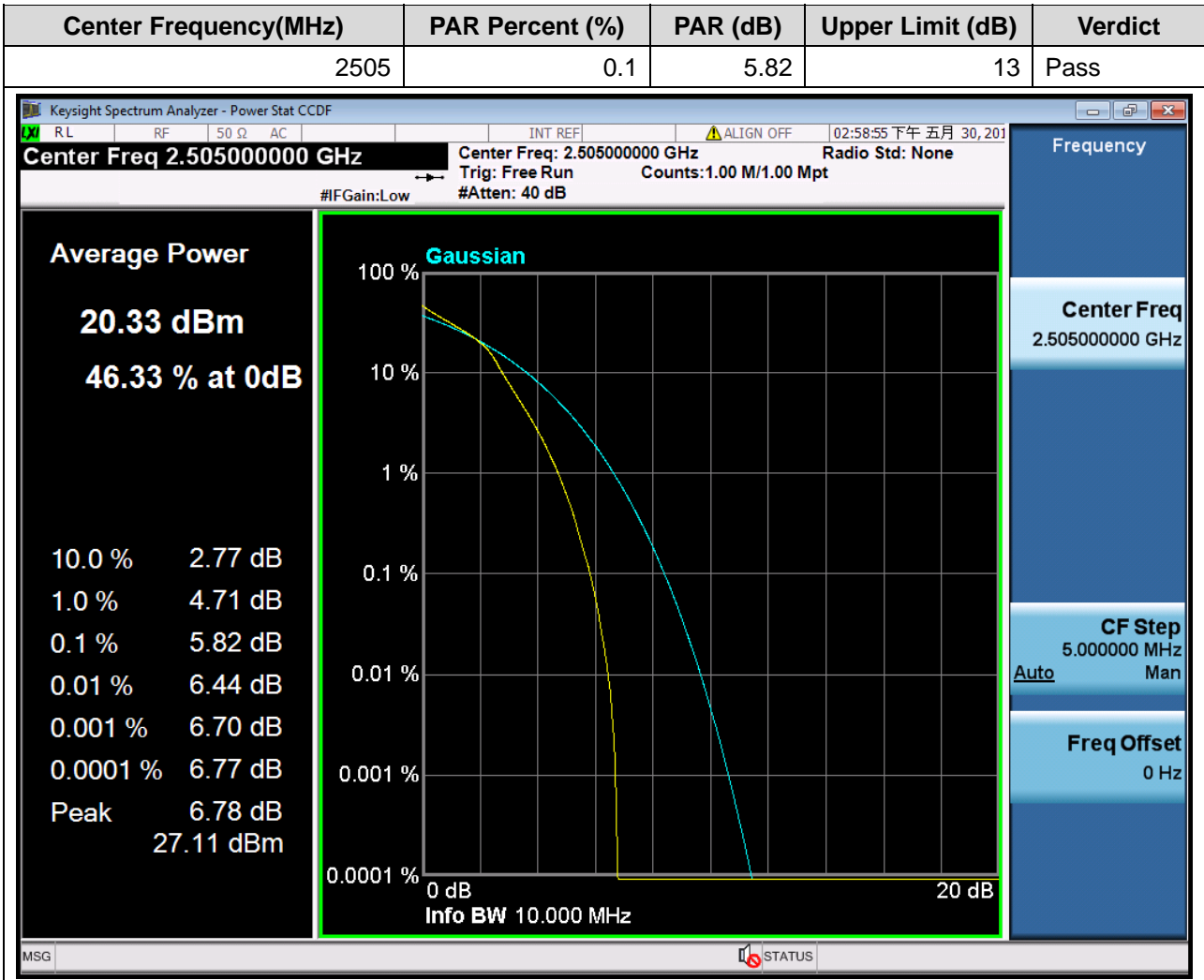
**1.50. LTE Peak to Average Ratio(NTNV)(Subtest:50, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



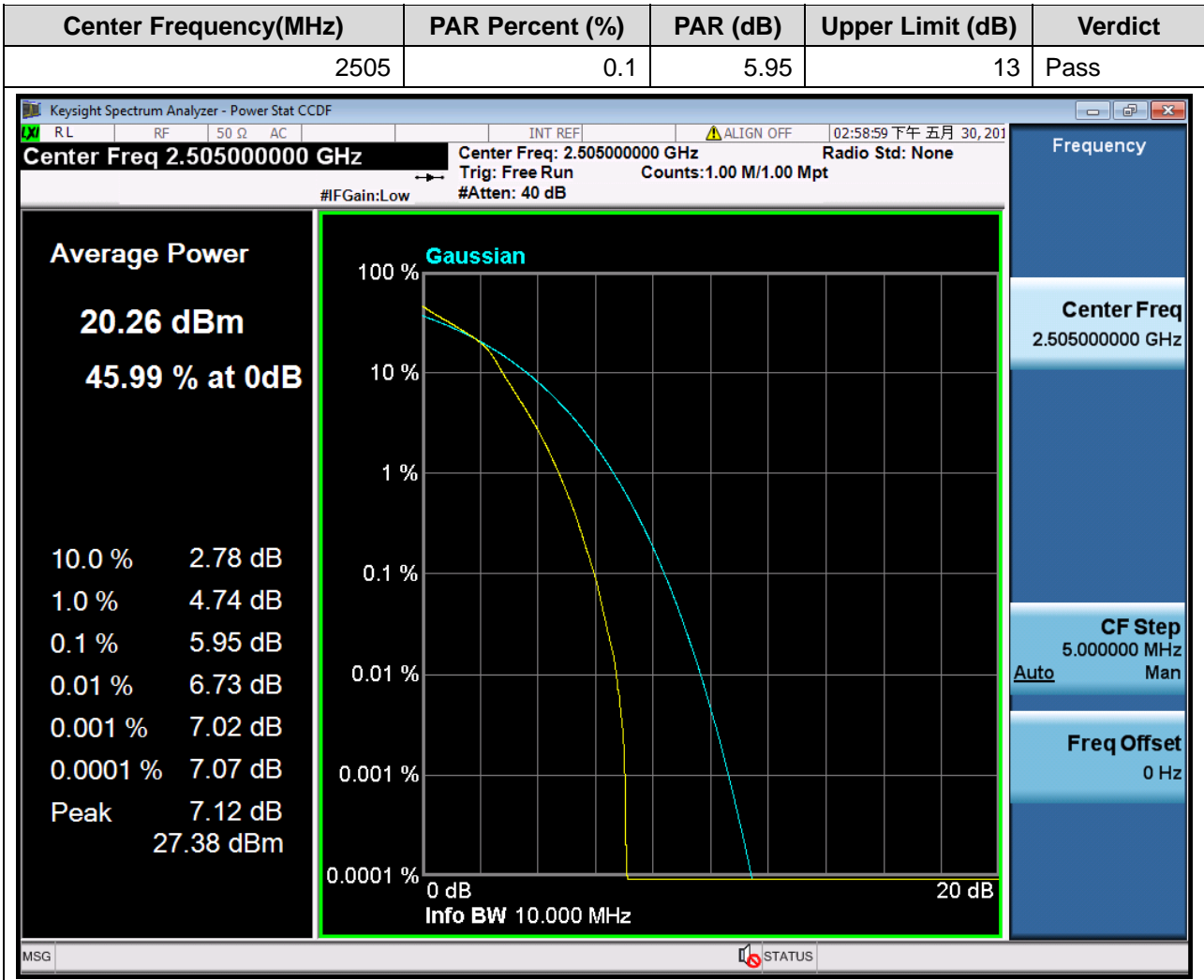
**1.51. LTE Peak to Average Ratio(NTNV)(Subtest:51, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 25, RB Position:LOW)**



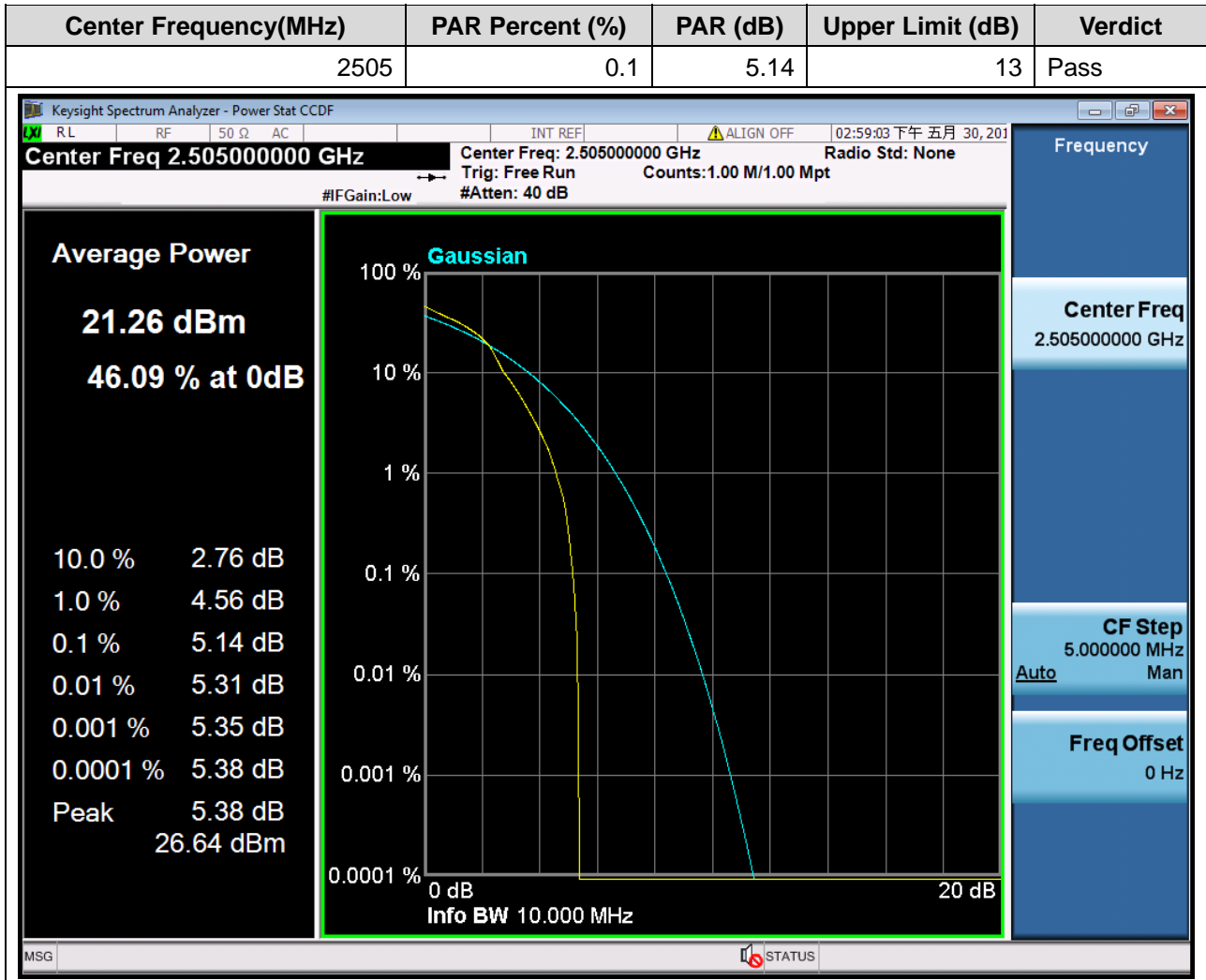
**1.52. LTE Peak to Average Ratio(NTNV)(Subtest:52, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 25, RB Position:MID)**



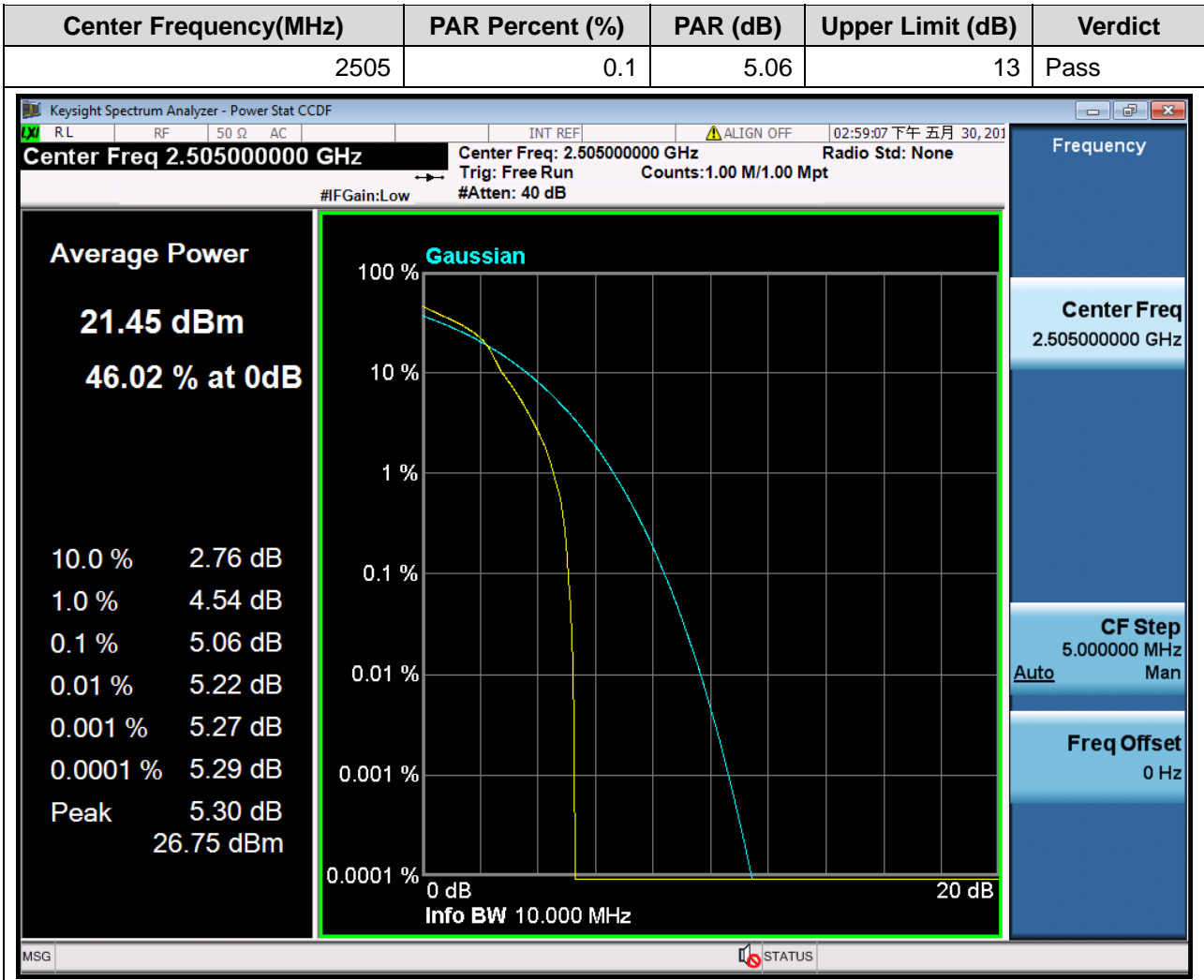
**1.53. LTE Peak to Average Ratio(NTNV)(Subtest:53, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 25, RB Position:HIGH)**



**1.54. LTE Peak to Average Ratio(NTNV)(Subtest:54, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**

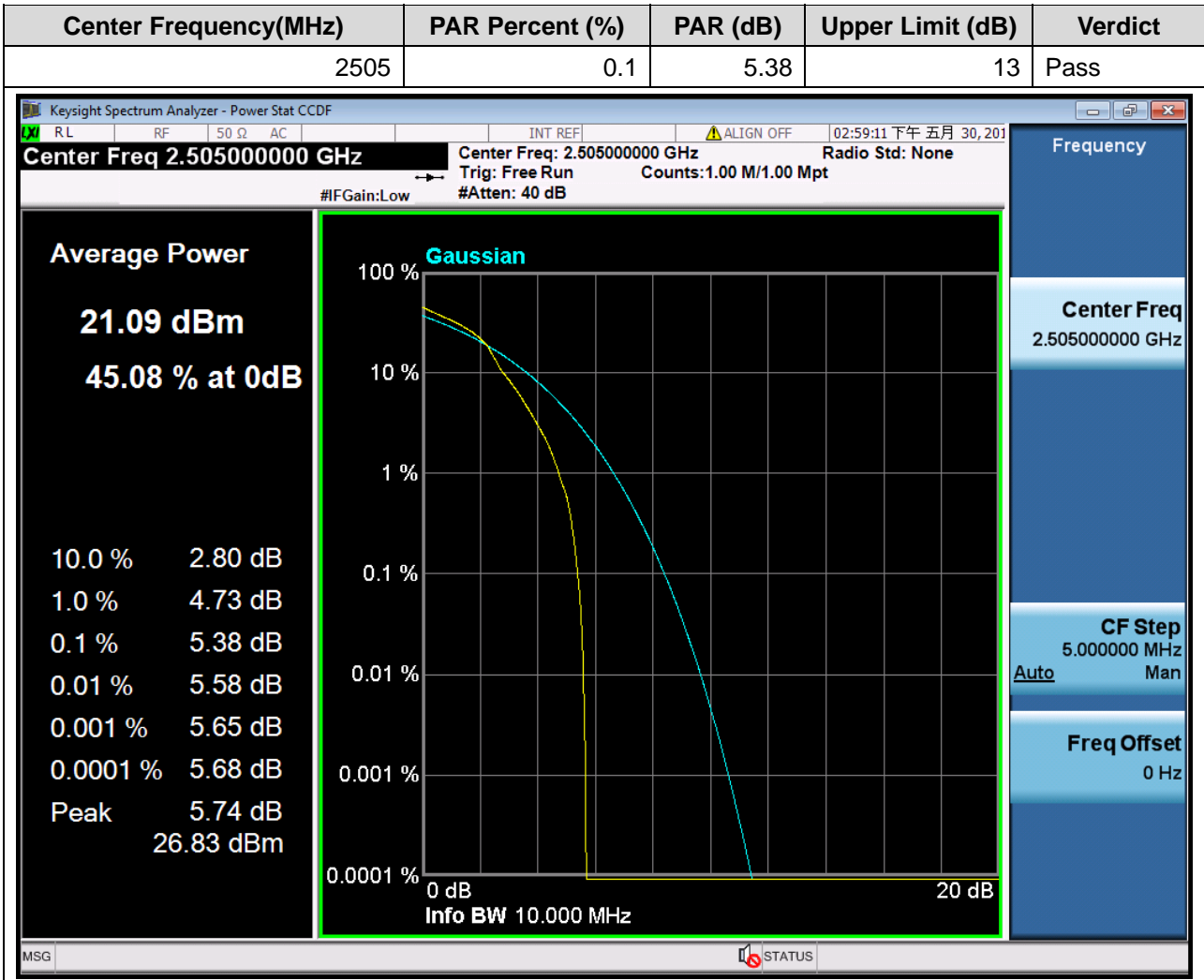


**1.55. LTE Peak to Average Ratio(NTNV)(Subtest:55, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:MID)**

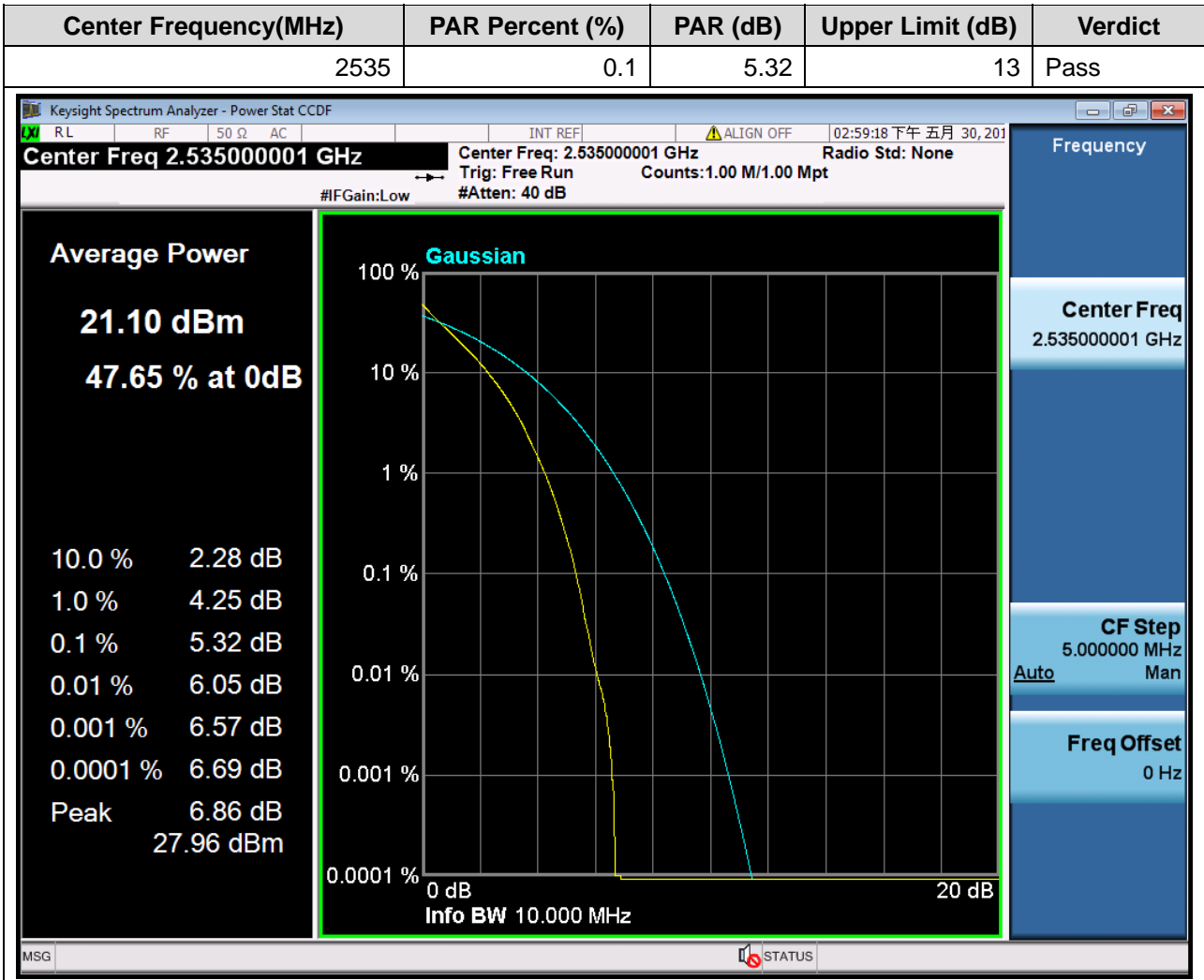




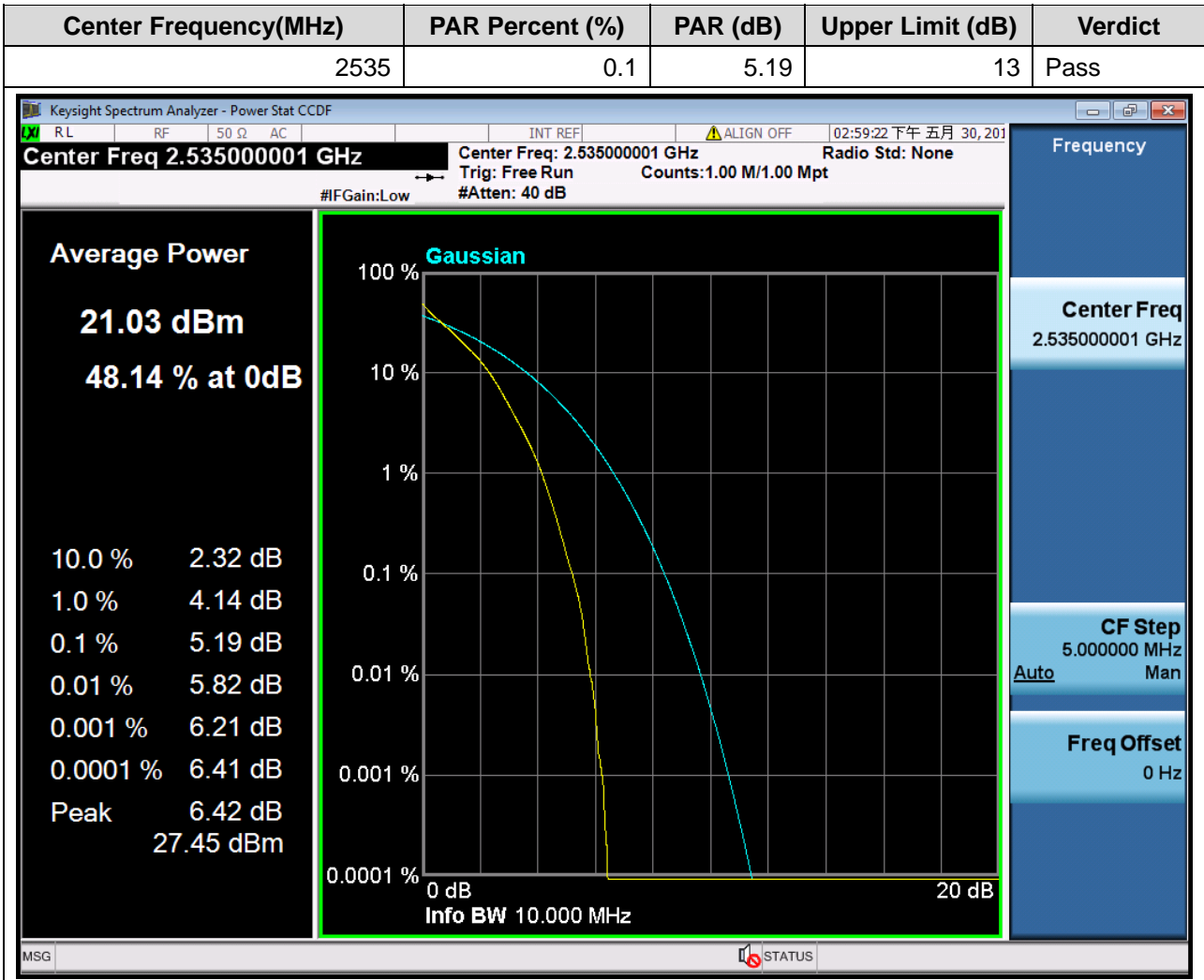
**1.56. LTE Peak to Average Ratio(NTNV)(Subtest:56, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:HIGH)**



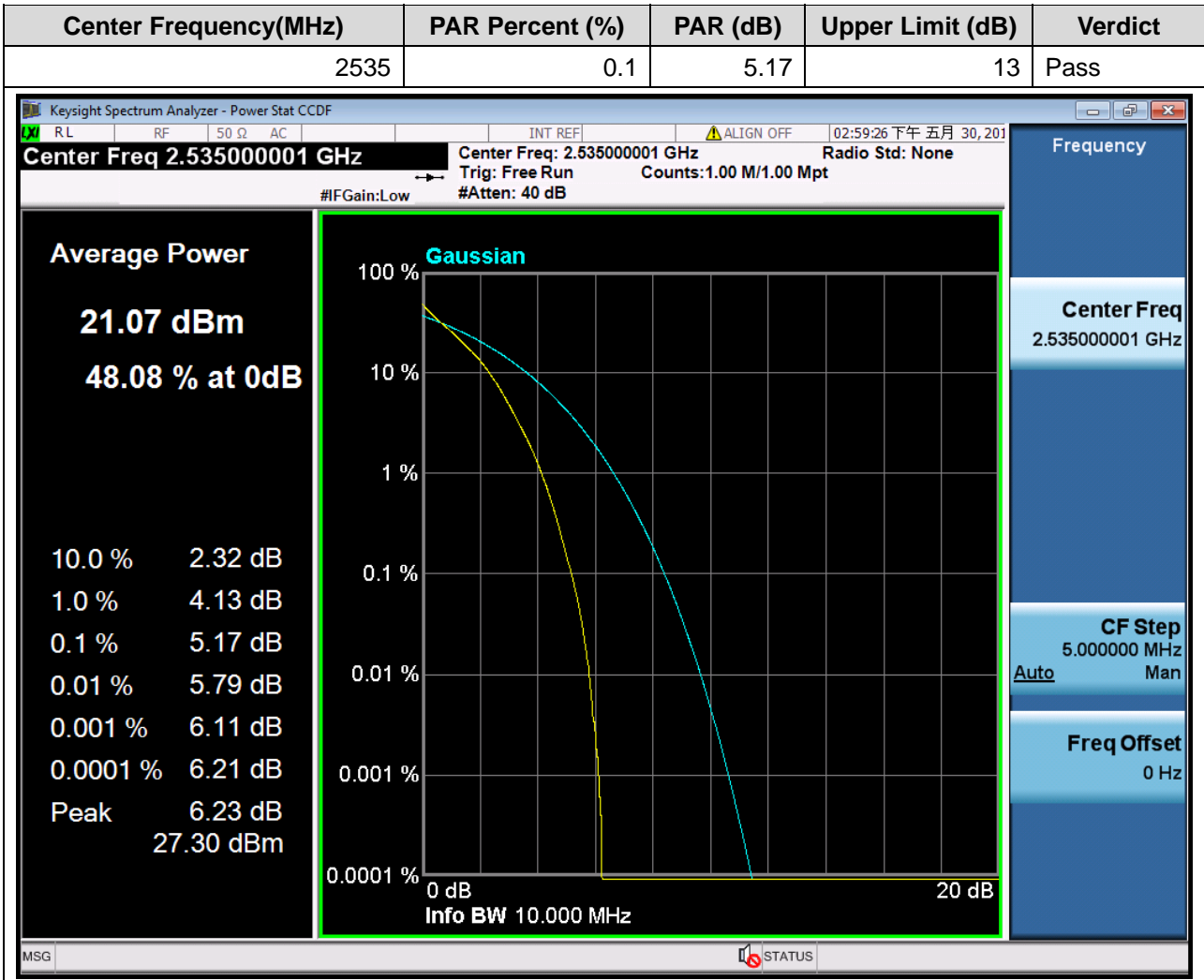
**1.57. LTE Peak to Average Ratio(NTNV)(Subtest:57, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



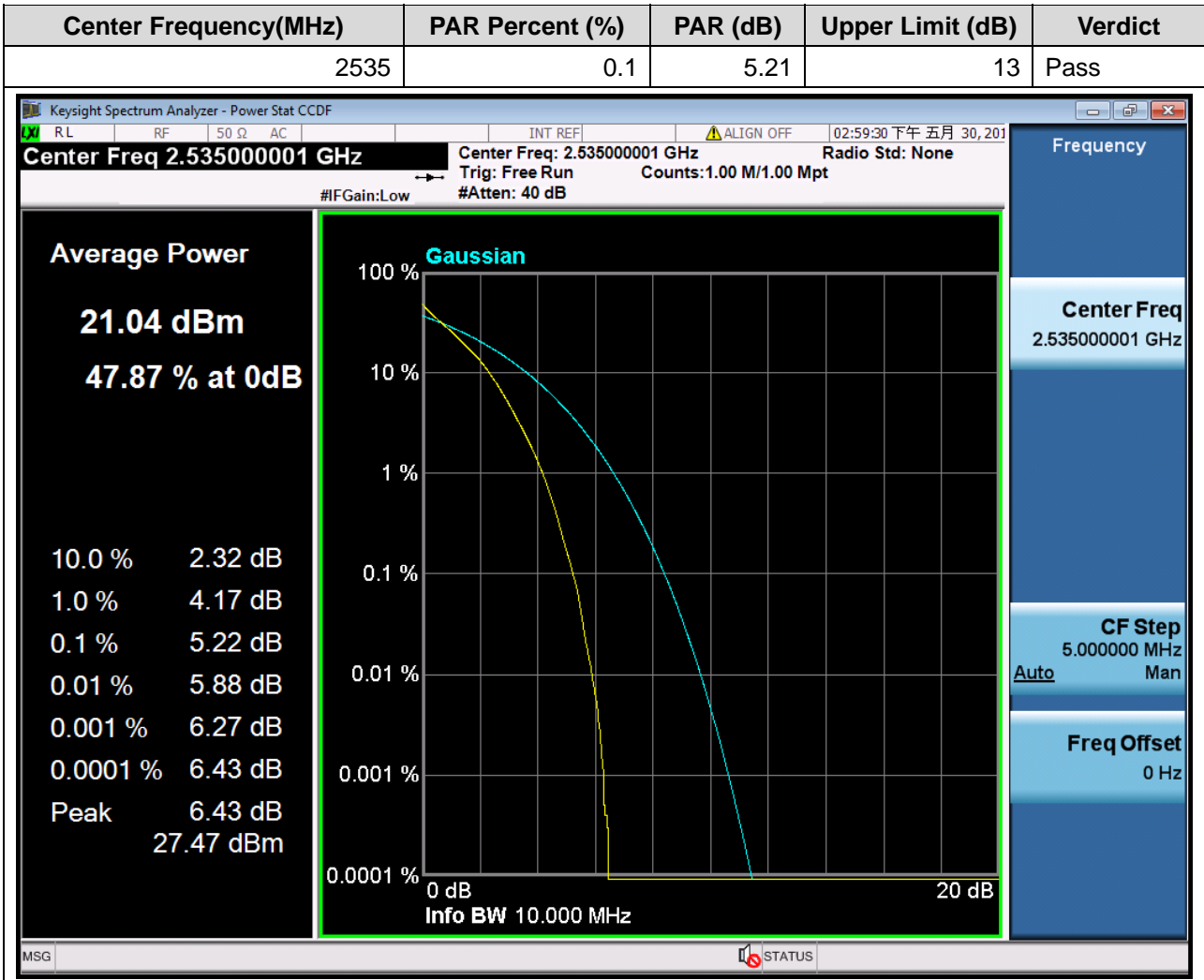
**1.58. LTE Peak to Average Ratio(NTNV)(Subtest:58, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



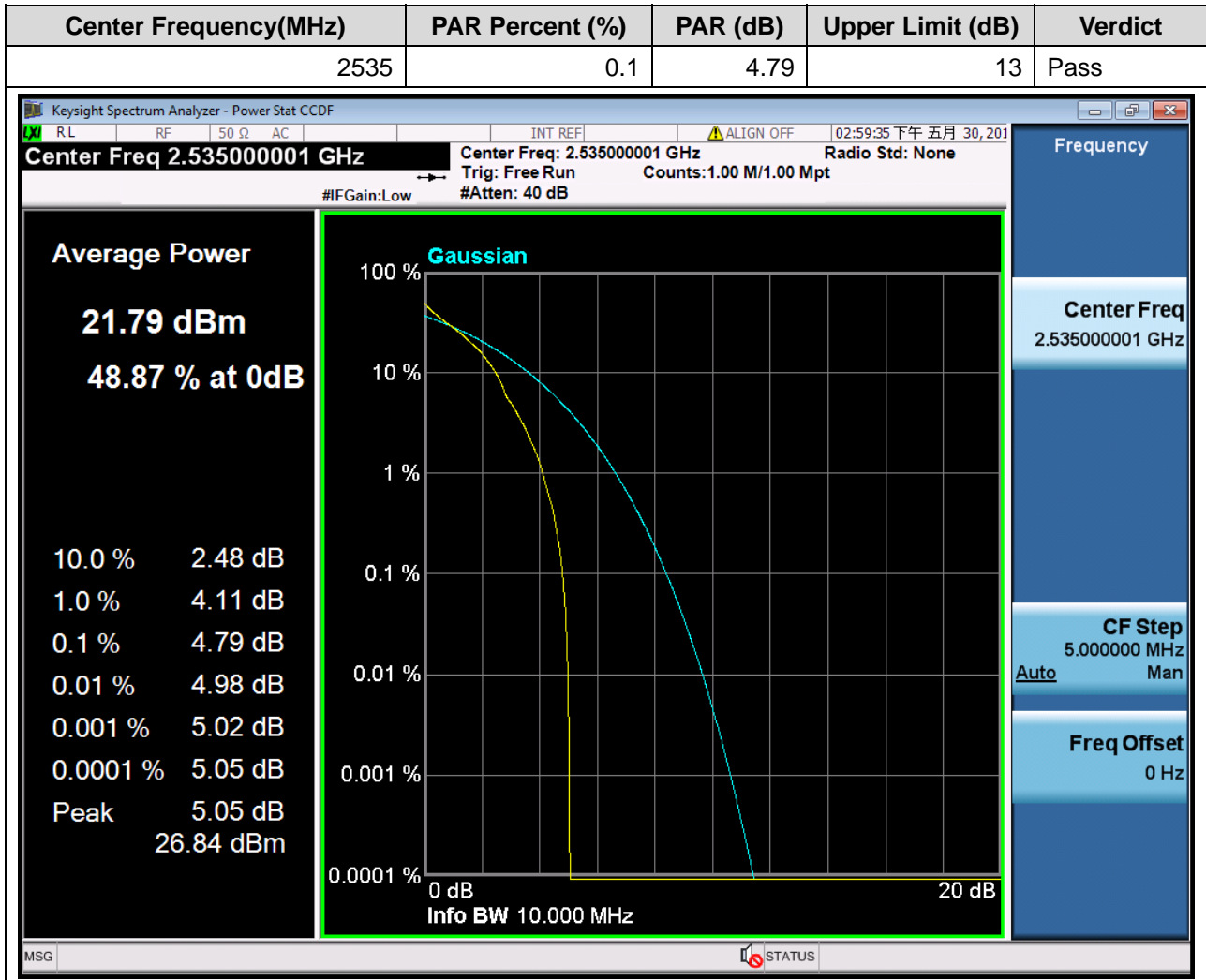
**1.59. LTE Peak to Average Ratio(NTNV)(Subtest:59, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:MID)**



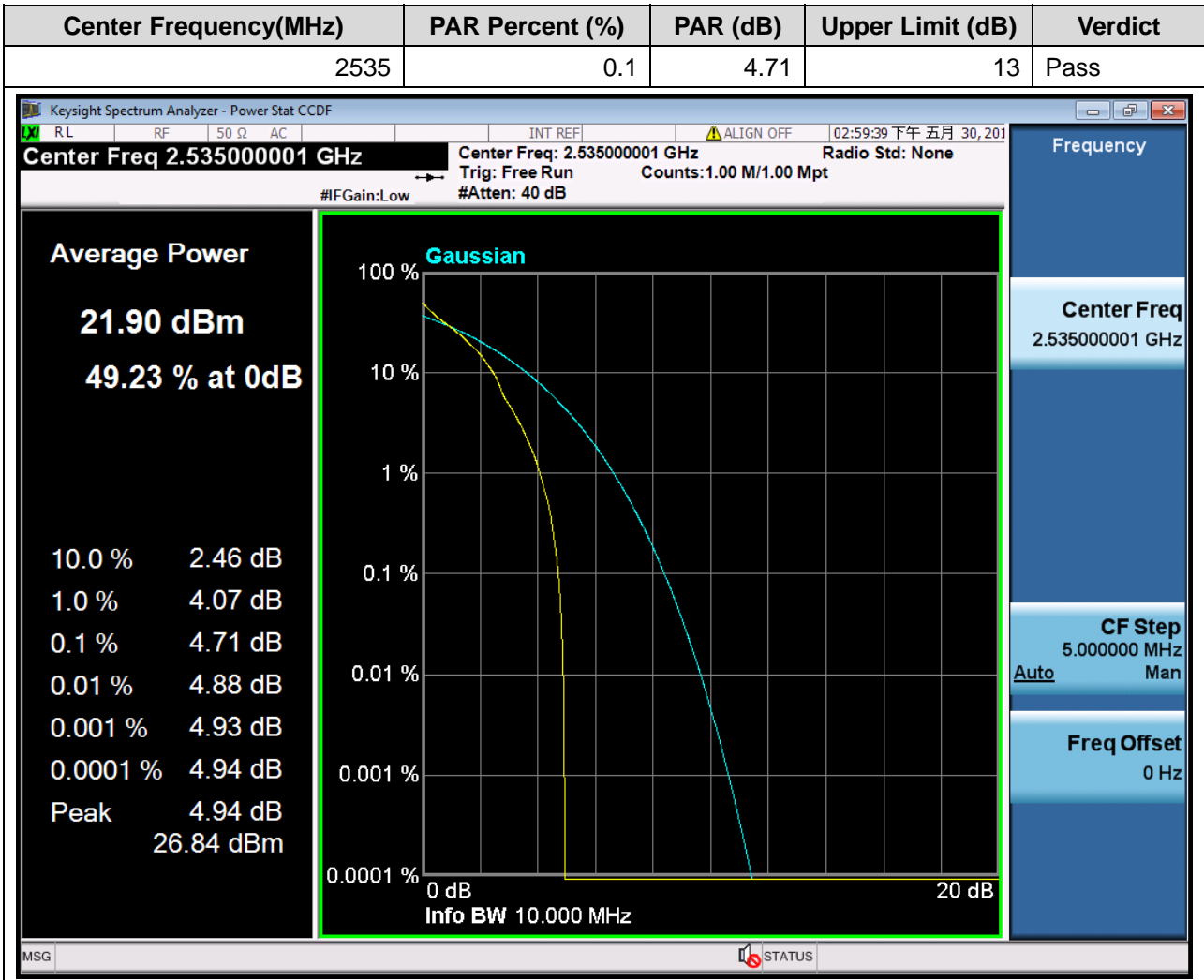
**1.60. LTE Peak to Average Ratio(NTNV)(Subtest:60, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:HIGH)**



**1.61. LTE Peak to Average Ratio(NTNV)(Subtest:61, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**

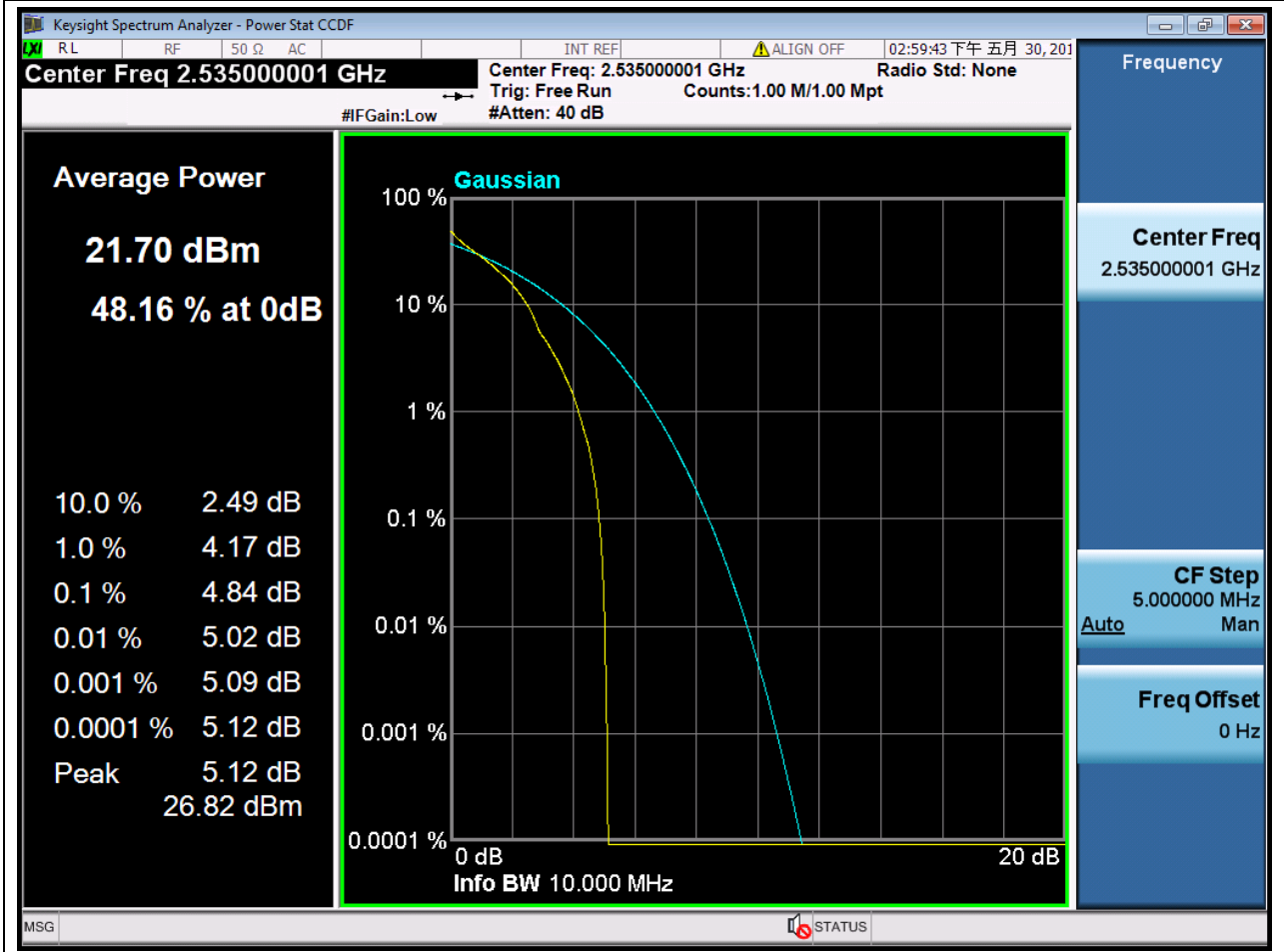


**1.62. LTE Peak to Average Ratio(NTNV)(Subtest:62, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:MID)**



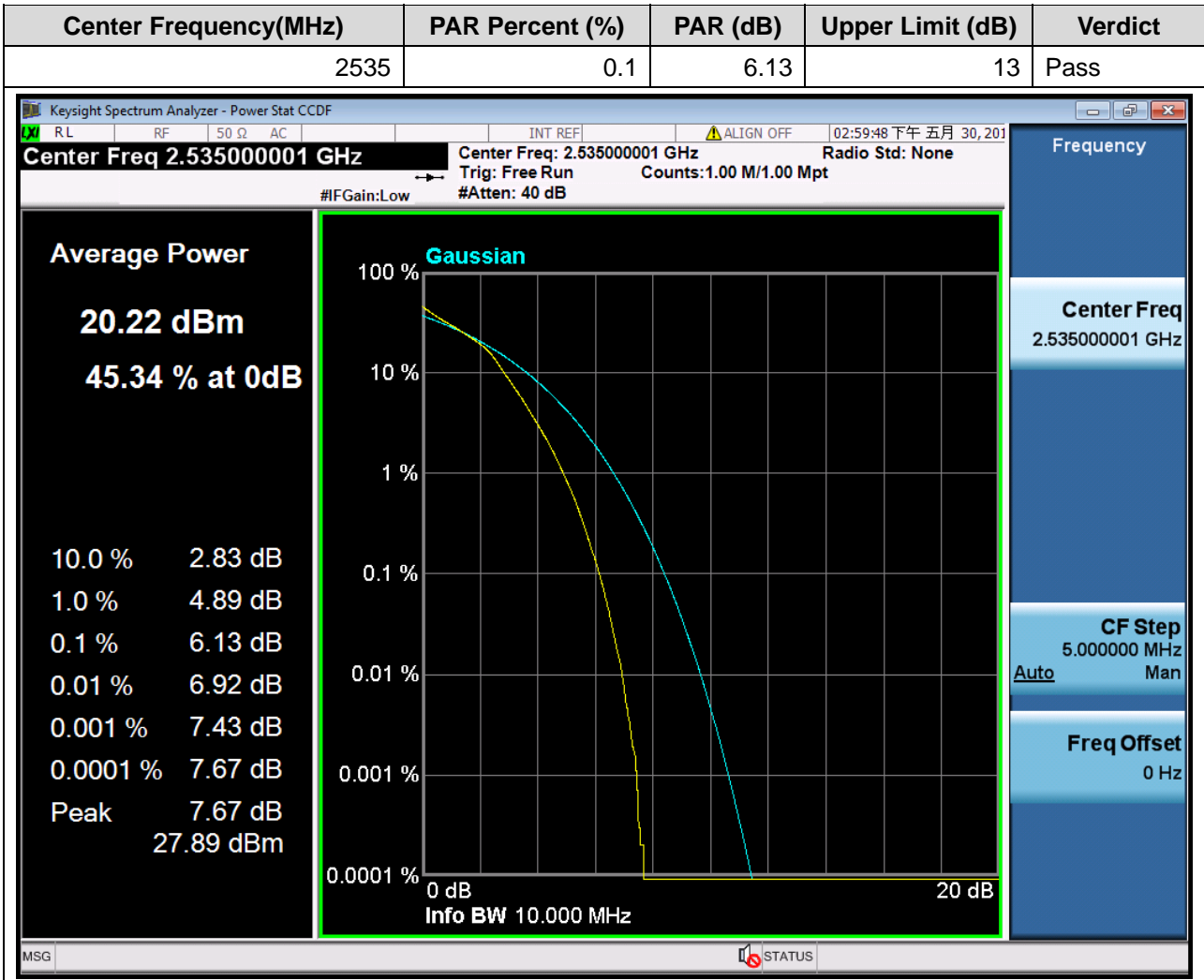
**1.63. LTE Peak to Average Ratio(NTNV)(Subtest:63, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:HIGH)**

| Center Frequency(MHz) | PAR Percent (%) | PAR (dB) | Upper Limit (dB) | Verdict |
|-----------------------|-----------------|----------|------------------|---------|
| 2535                  | 0.1             | 4.84     | 13               | Pass    |

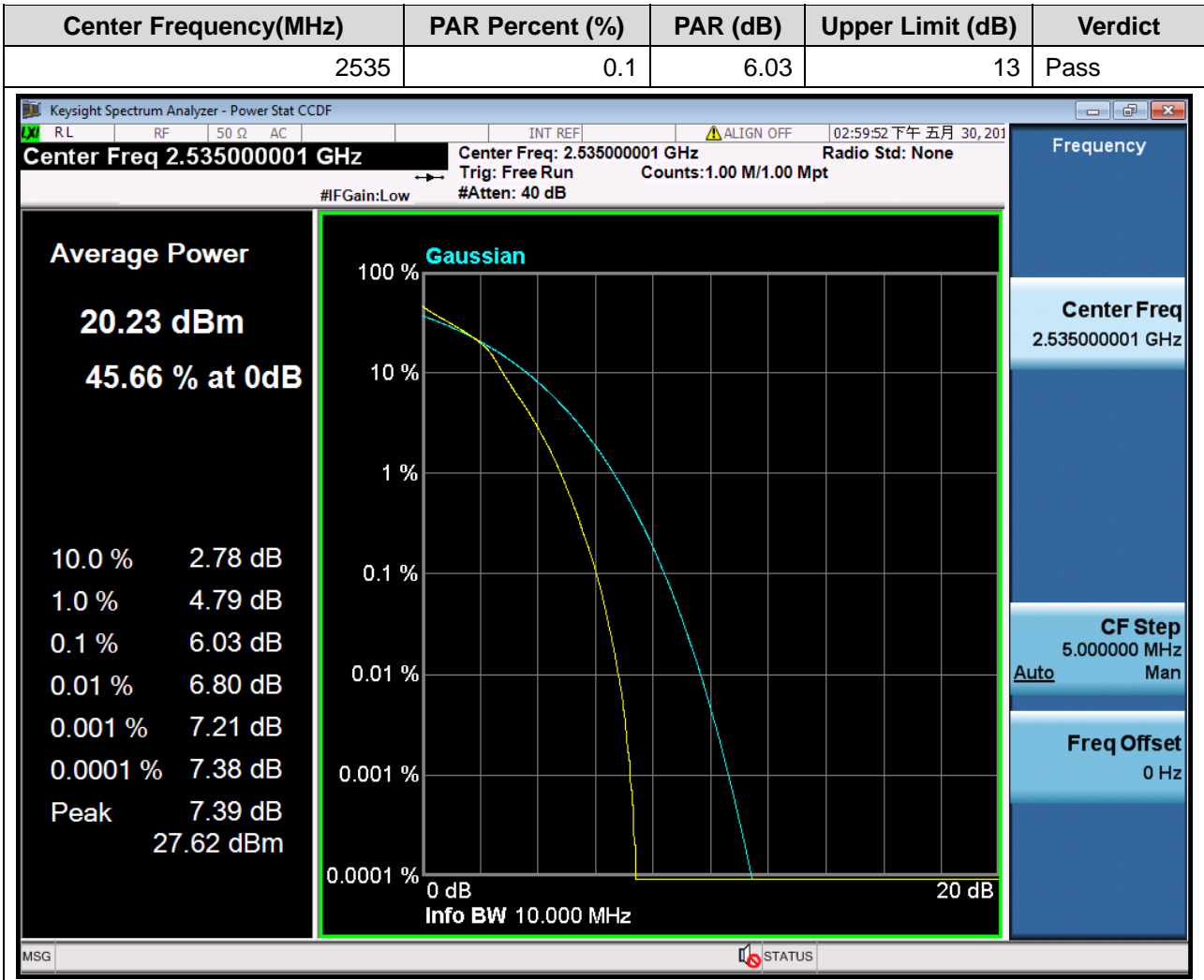




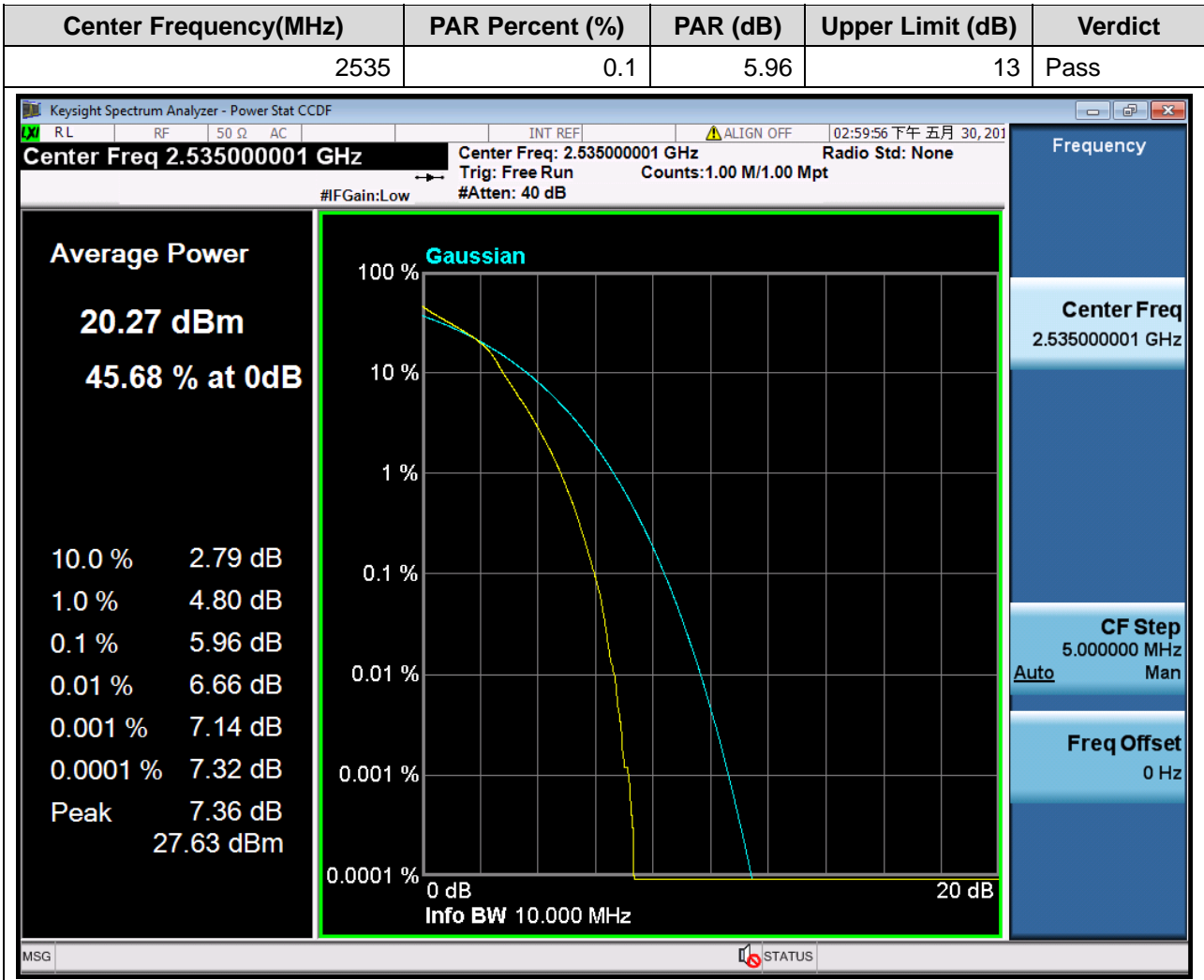
**1.64. LTE Peak to Average Ratio(NTNV)(Subtest:64, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



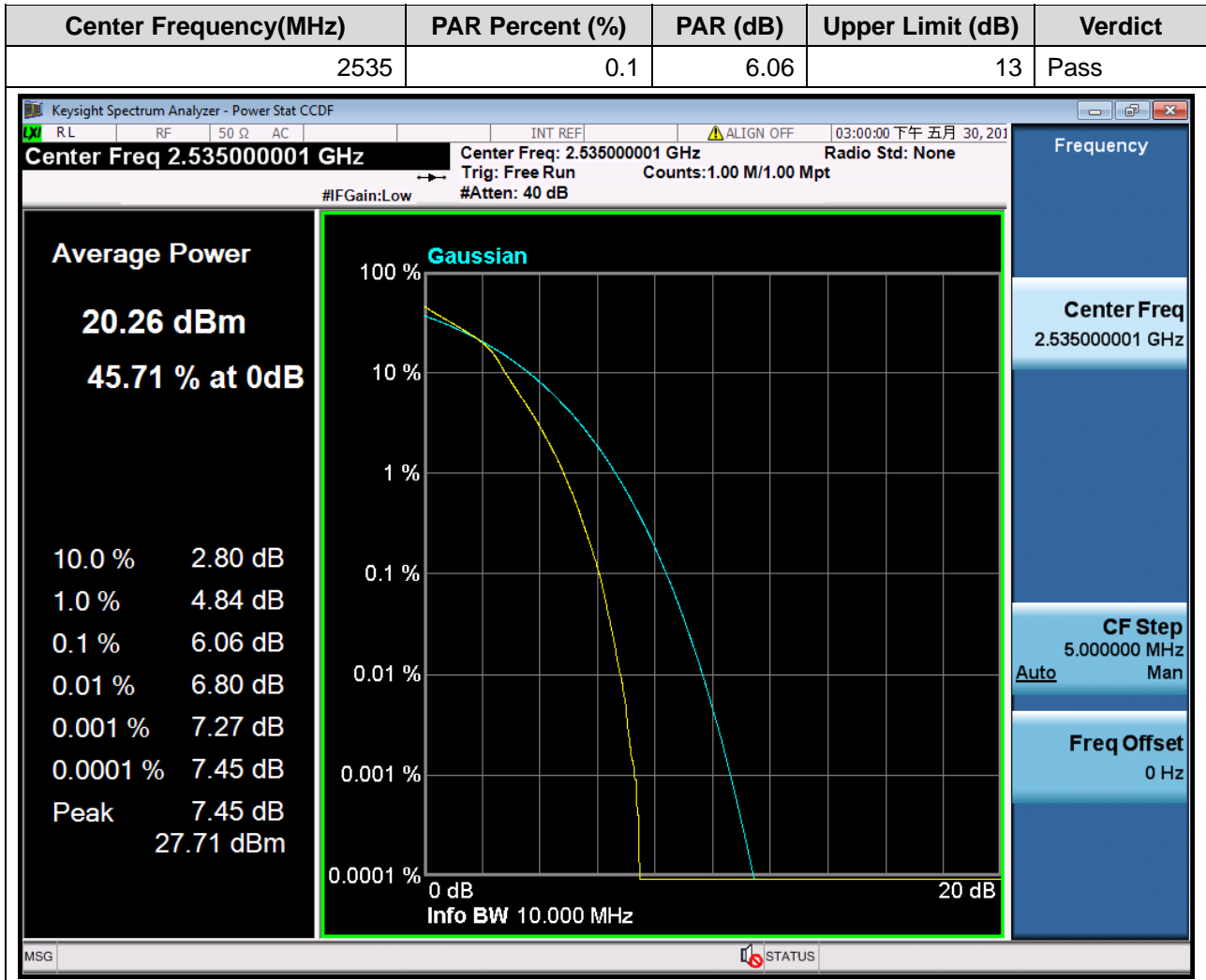
**1.65. LTE Peak to Average Ratio(NTNV)(Subtest:65, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 25, RB Position:LOW)**



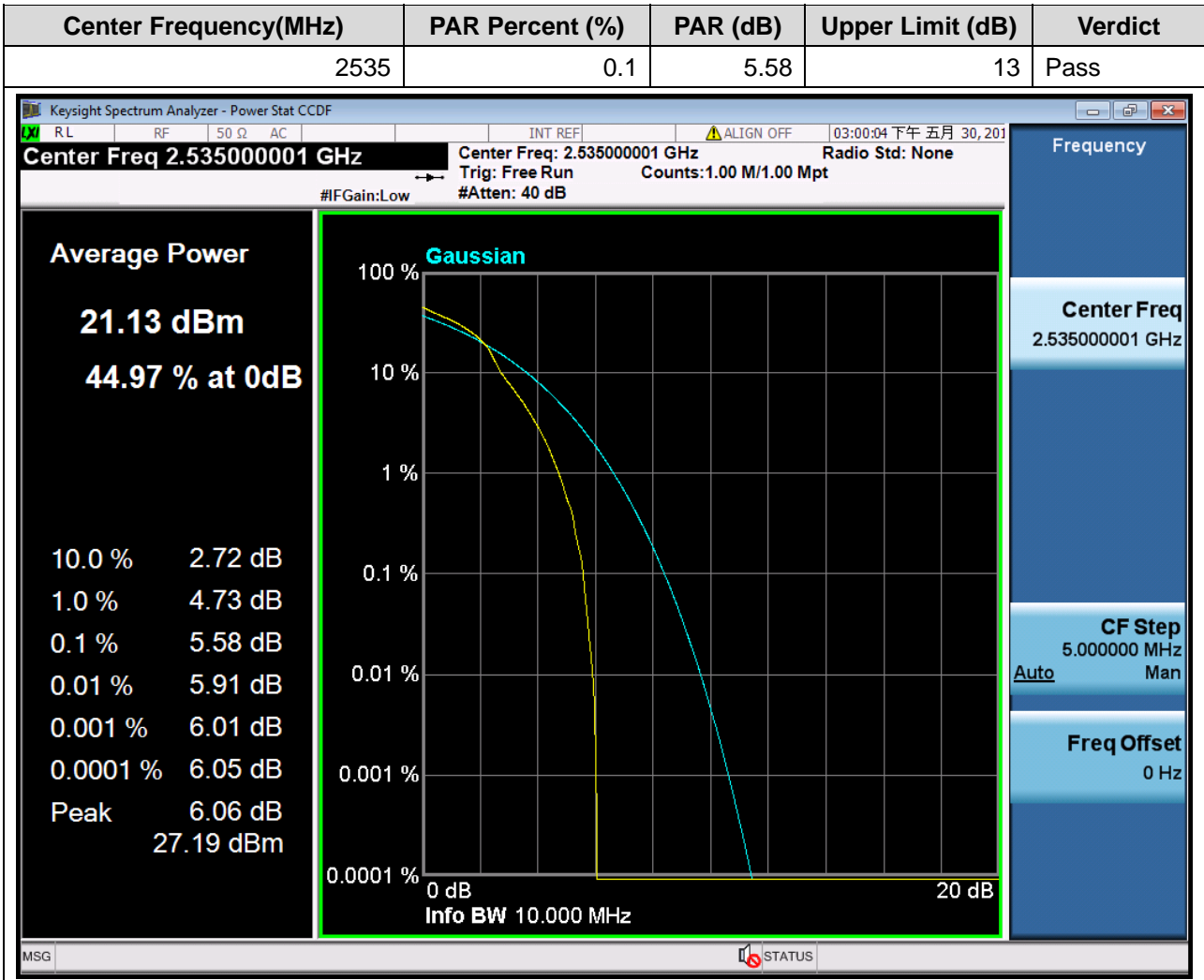
**1.66. LTE Peak to Average Ratio(NTNV)(Subtest:66, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 25, RB Position:MID)**



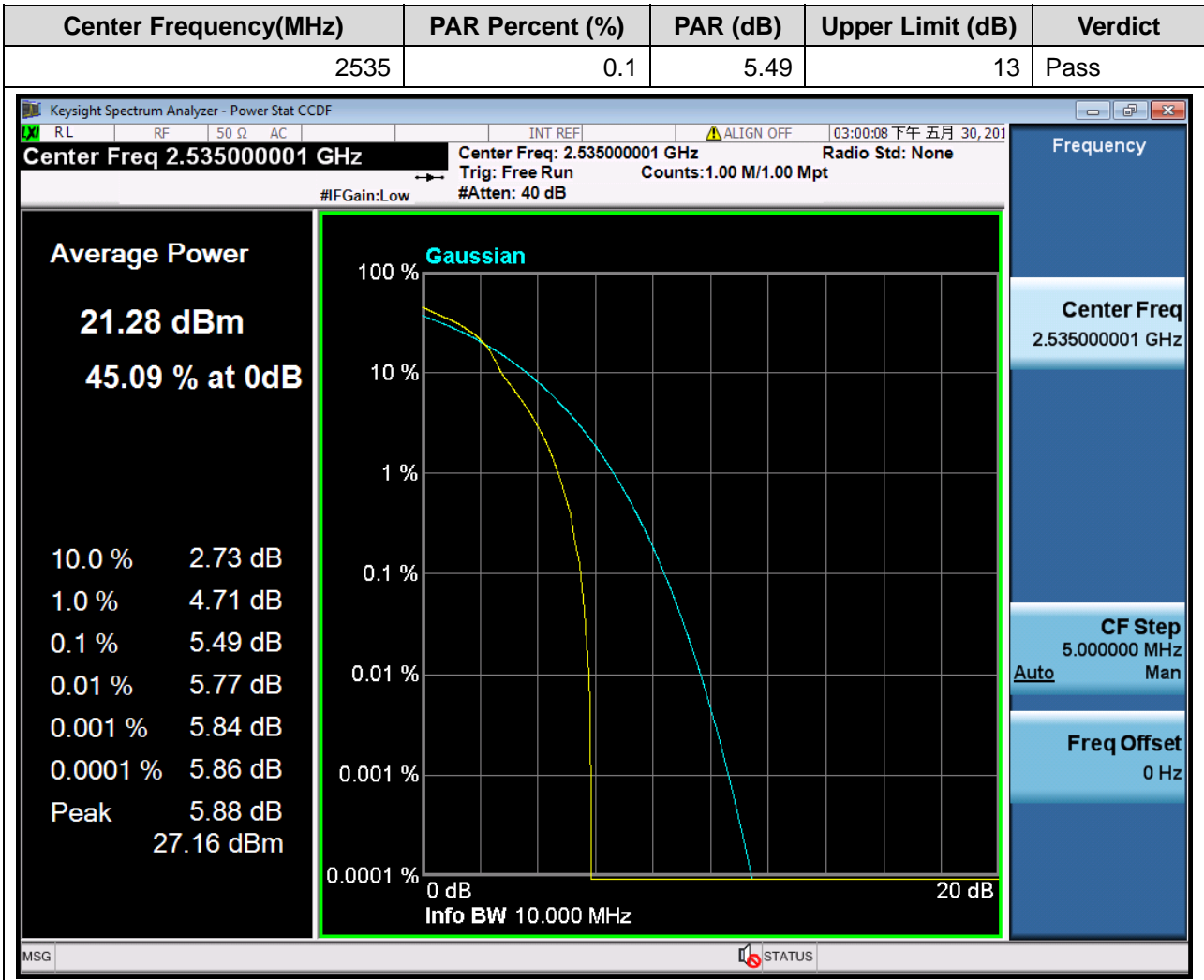
**1.67. LTE Peak to Average Ratio(NTNV)(Subtest:67, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 25, RB Position:HIGH)**



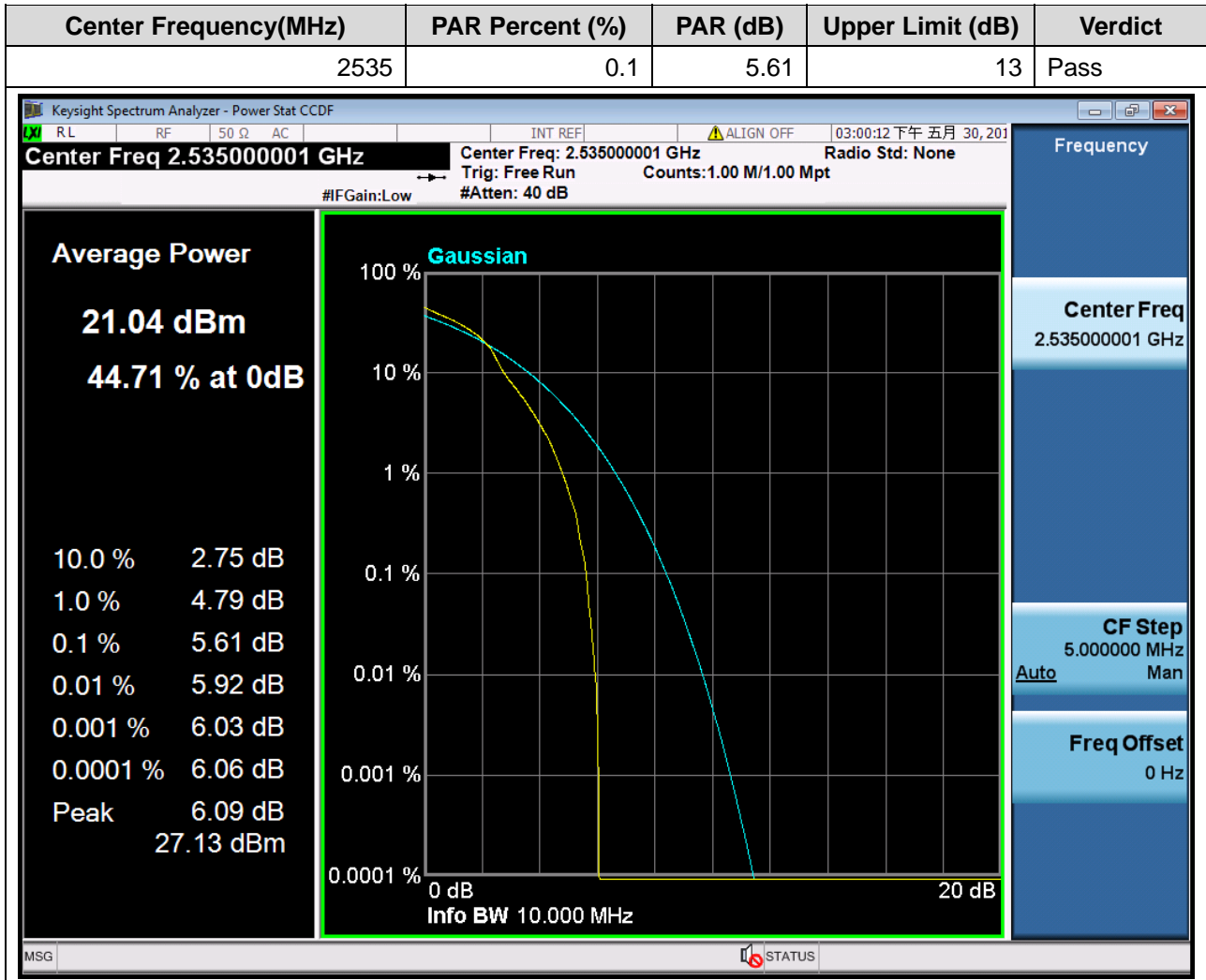
**1.68. LTE Peak to Average Ratio(NTNV)(Subtest:68, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)**



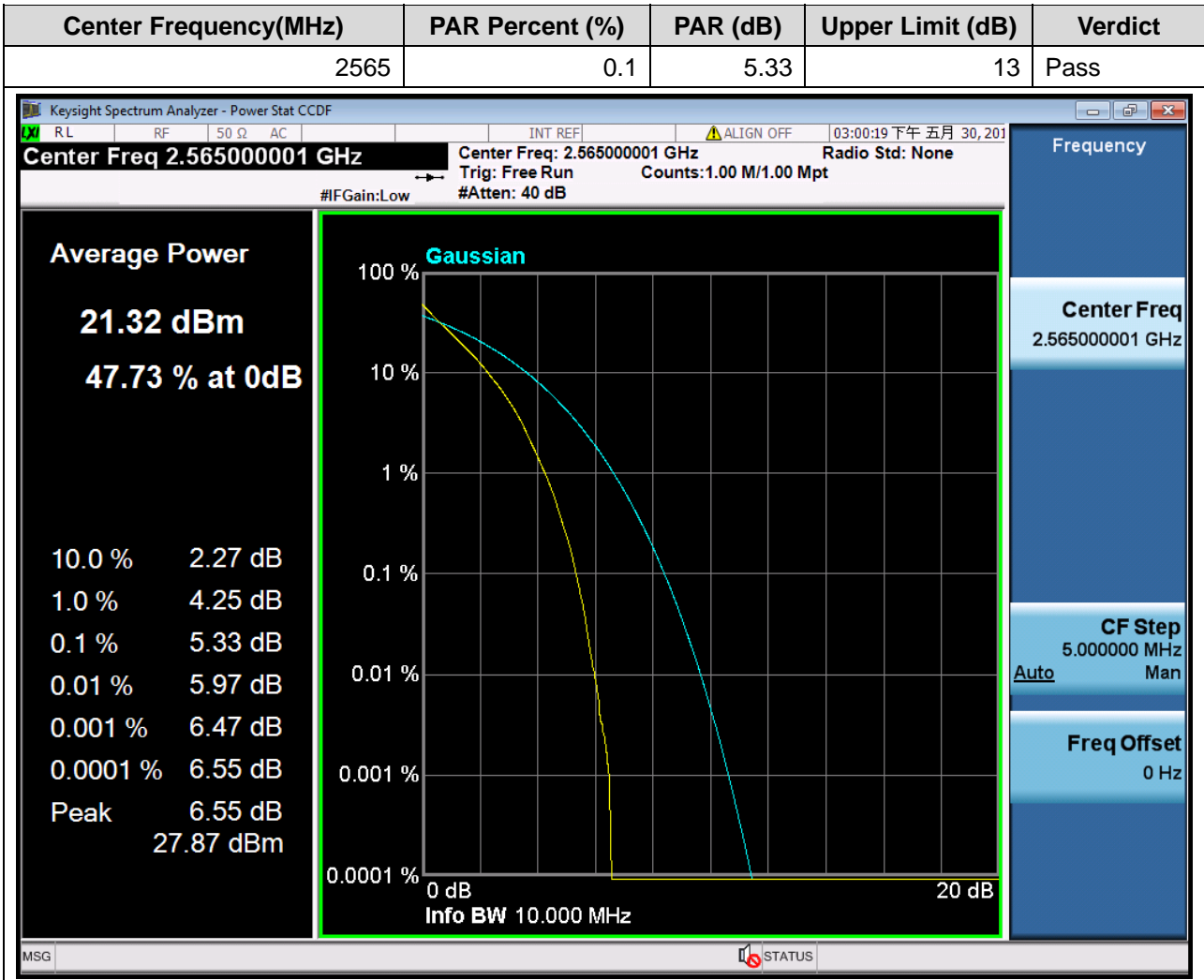
**1.69. LTE Peak to Average Ratio(NTNV)(Subtest:69, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:MID)**



**1.70. LTE Peak to Average Ratio(NTNV)(Subtest:70, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:HIGH)**

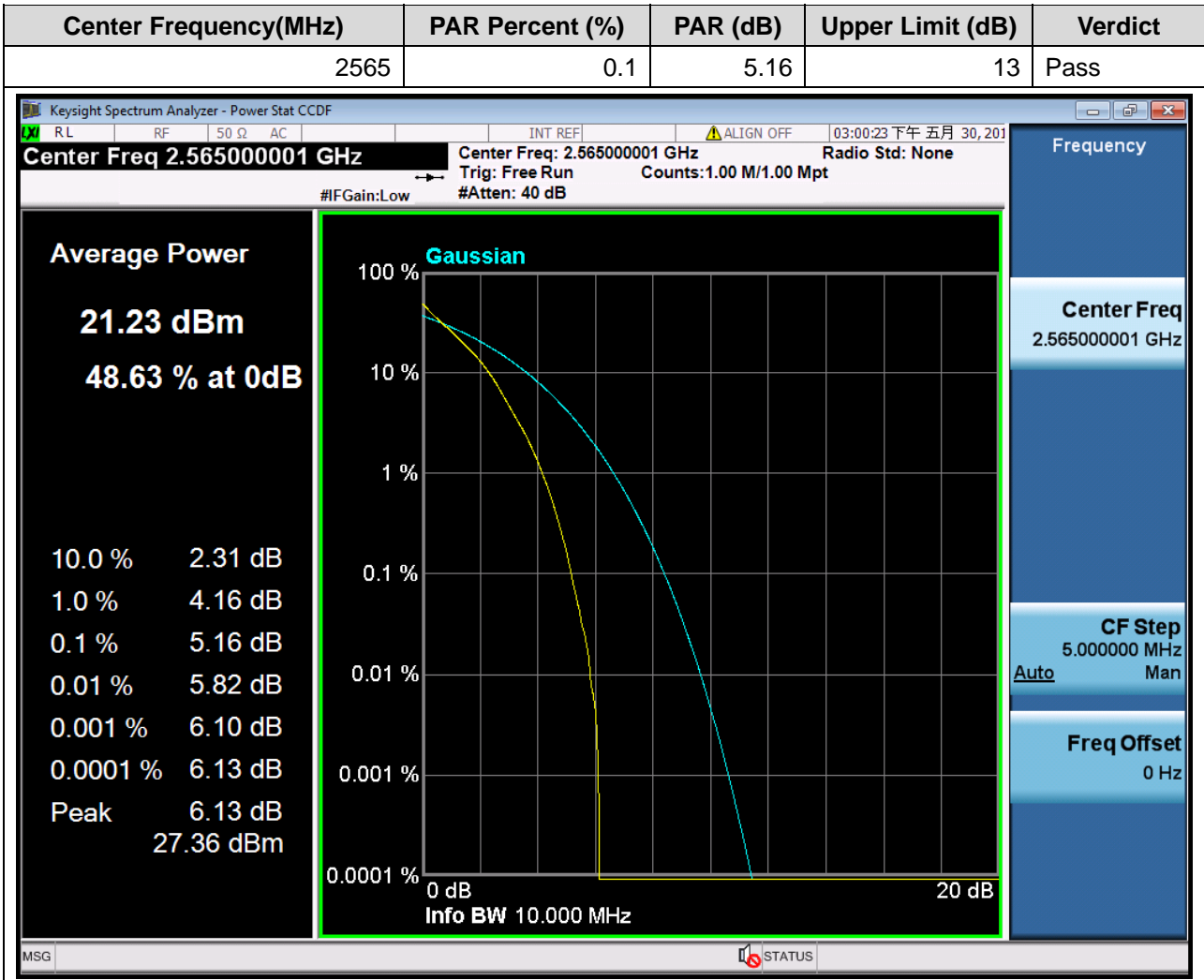


**1.71. LTE Peak to Average Ratio(NTNV)(Subtest:71, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

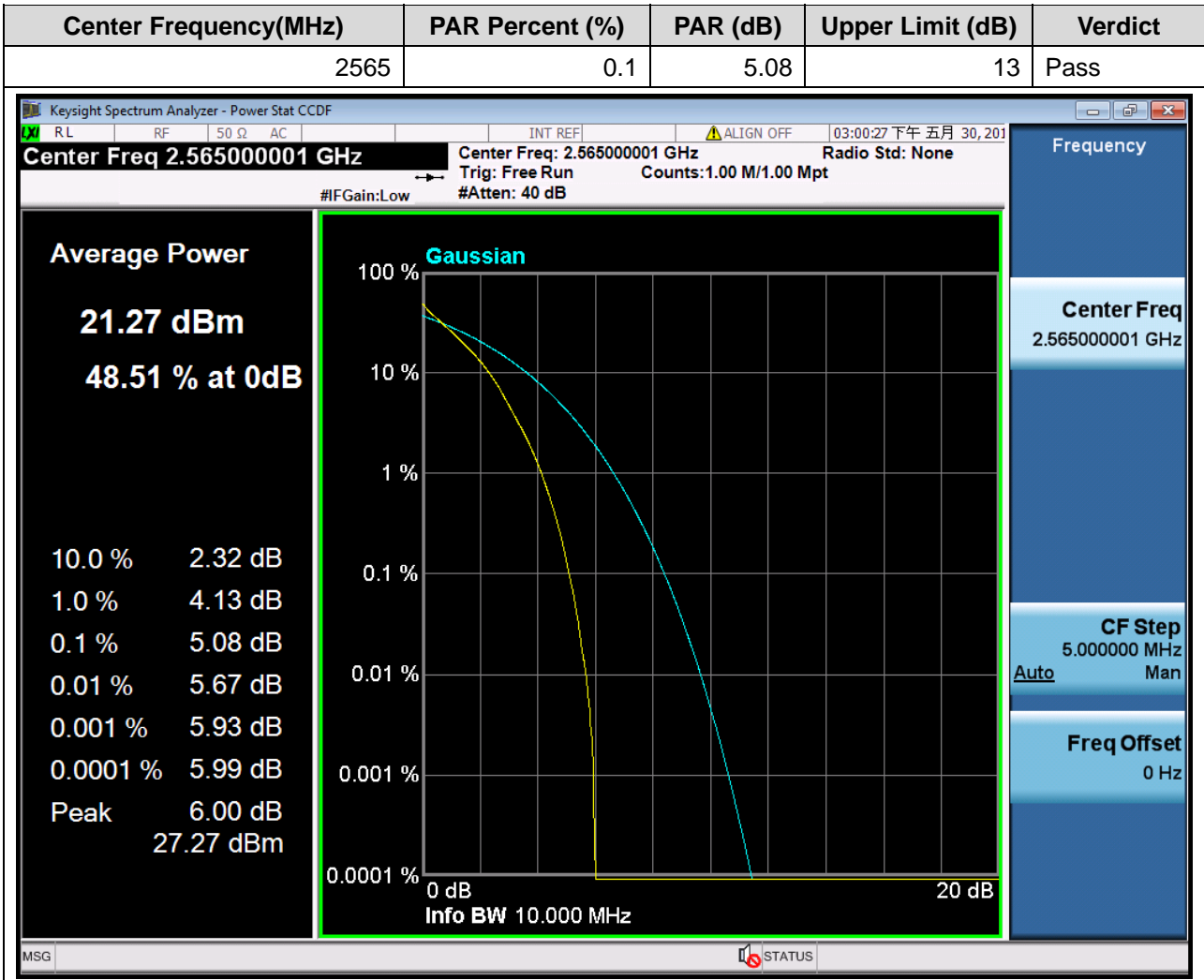




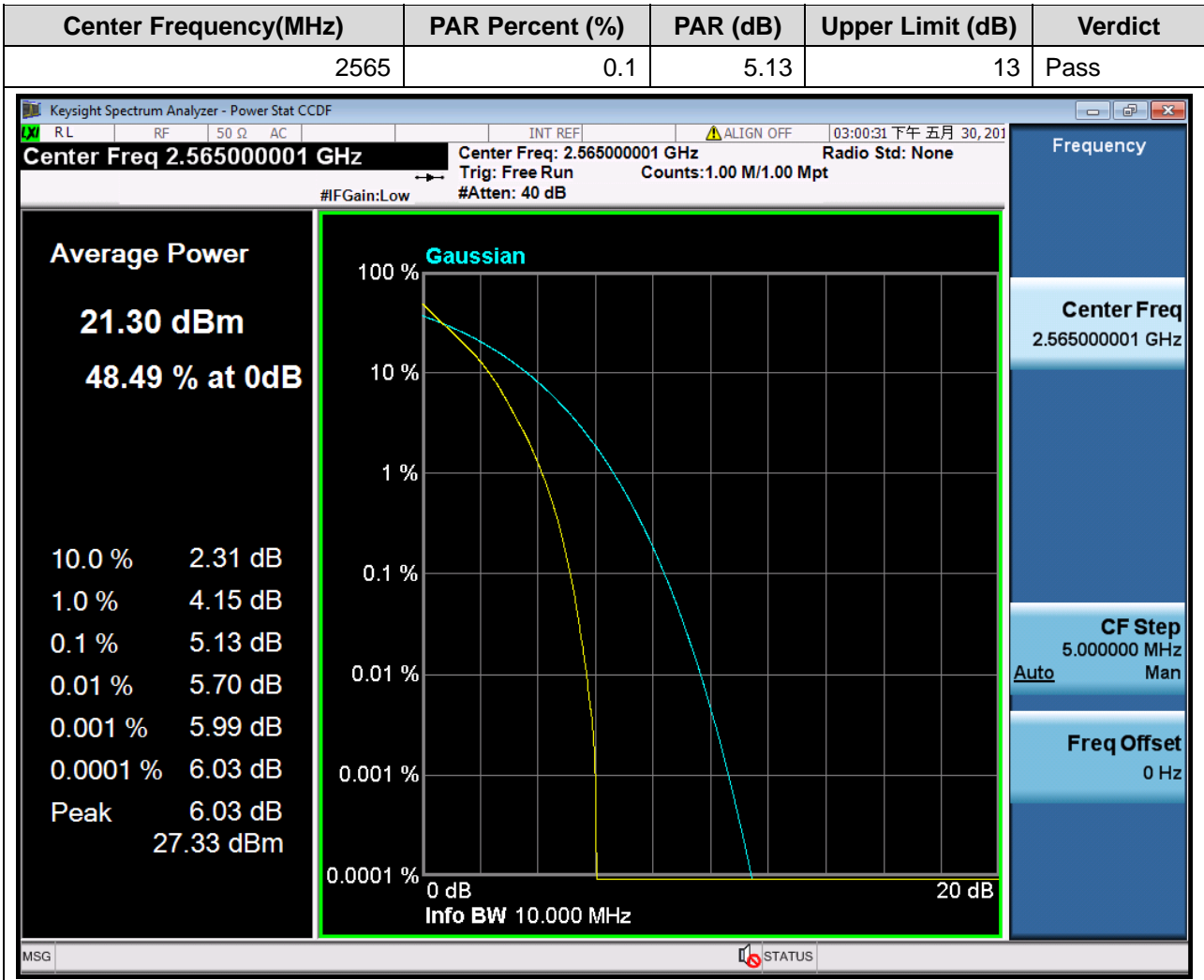
**1.72. LTE Peak to Average Ratio(NTNV)(Subtest:72, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



**1.73. LTE Peak to Average Ratio(NTNV)(Subtest:73, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:MID)**



**1.74. LTE Peak to Average Ratio(NTNV)(Subtest:74, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 25, RB Position:HIGH)**



**1.75. LTE Peak to Average Ratio(NTNV)(Subtest:75, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)**

