A.2 Peak to Average Ratio

WCDMA_Band2

1.1. WCDMA Peak to Average Ratio(NTNV)(Channel:9262)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1852.4	0.1	3.22	13	Pass

Date: 15.MAY.2017 08:39:19

1.2. WCDMA Peak to Average Ratio(NTNV)(Channel:9400)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1880	0.1	3.25	13	Pass

1.3. WCDMA Peak to Average Ratio(NTNV)(Channel:9538)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1907.6	0.1	3.13	13	Pass

Spectrum

Ref Level 29.94 dBm   Offset 9.94 dB
Att   30 dB   AQT   15.6 ms   RBW 5 MHz
SGL

1Sa Clrw

CF 1.907599976 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.61 dBm	25.19 dBm	3.58 dB	1.71 dB	2.70 dB	3.13 dB	3.36 dB

Date: 15.MAY.2017 08:39:35
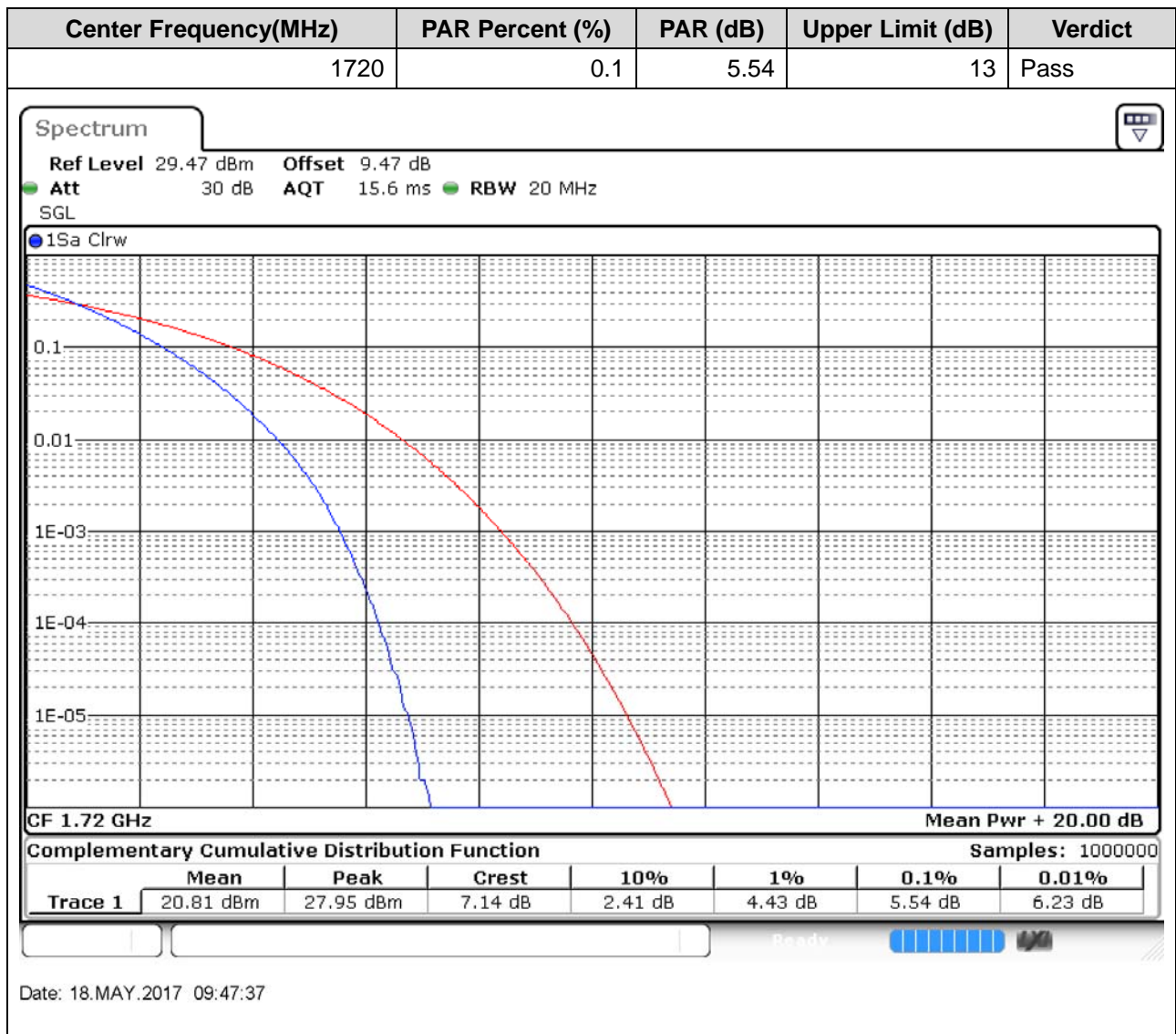
LTE_Band4

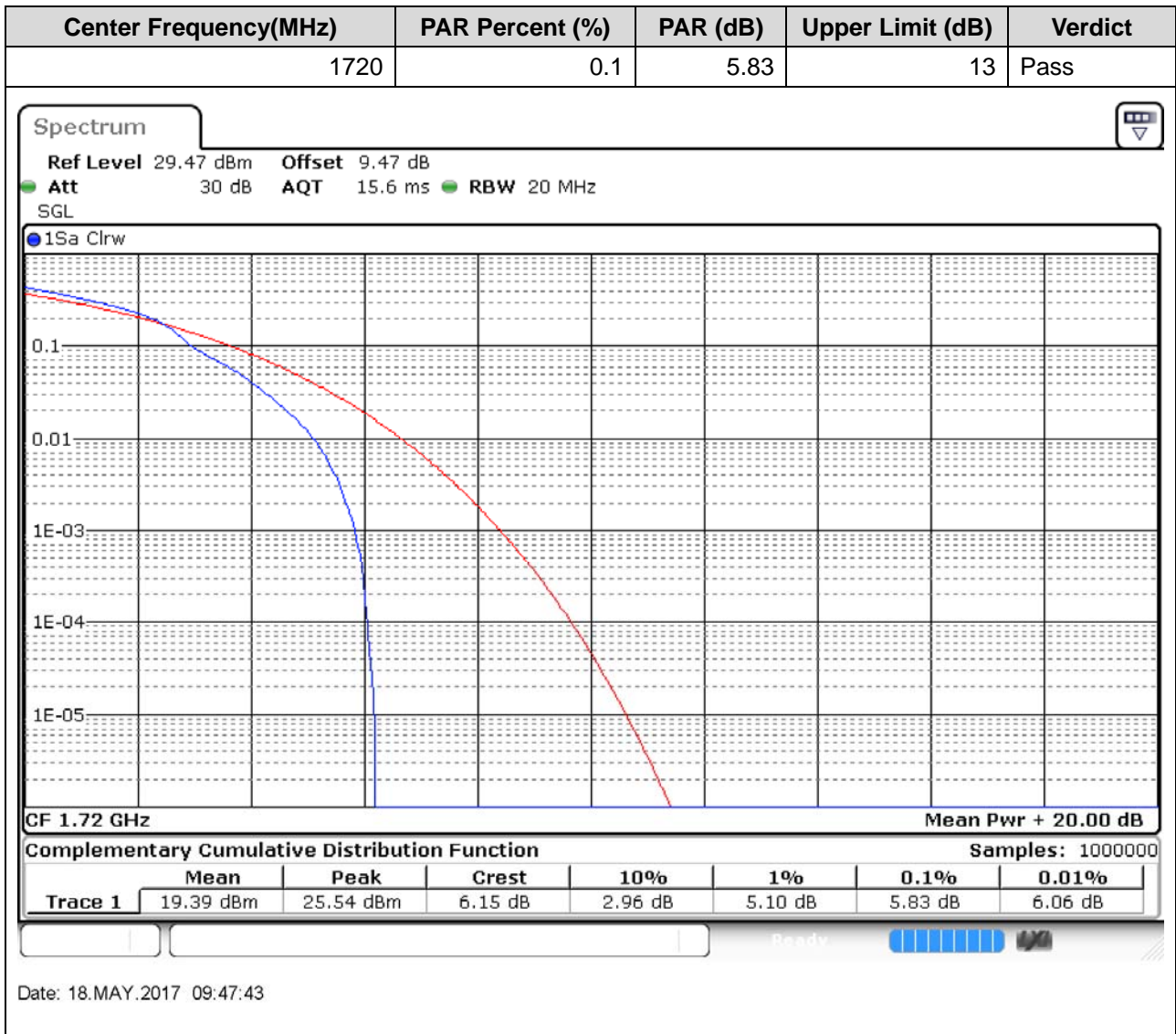## 1.4. LTE Peak to Average Ratio(NTNV)(Subtest:1, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	5.19	13	Pass

Spectrum

Ref Level 29.47 dBm   Offset 9.47 dB
Att   30 dB   AQT   15.6 ms   RBW 20 MHz
SGL
1Sa Clrw

CF 1.72 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.20 dBm	25.78 dBm	5.58 dB	2.78 dB	4.58 dB	5.19 dB	5.54 dB

Date: 18.MAY.2017 09:47:31
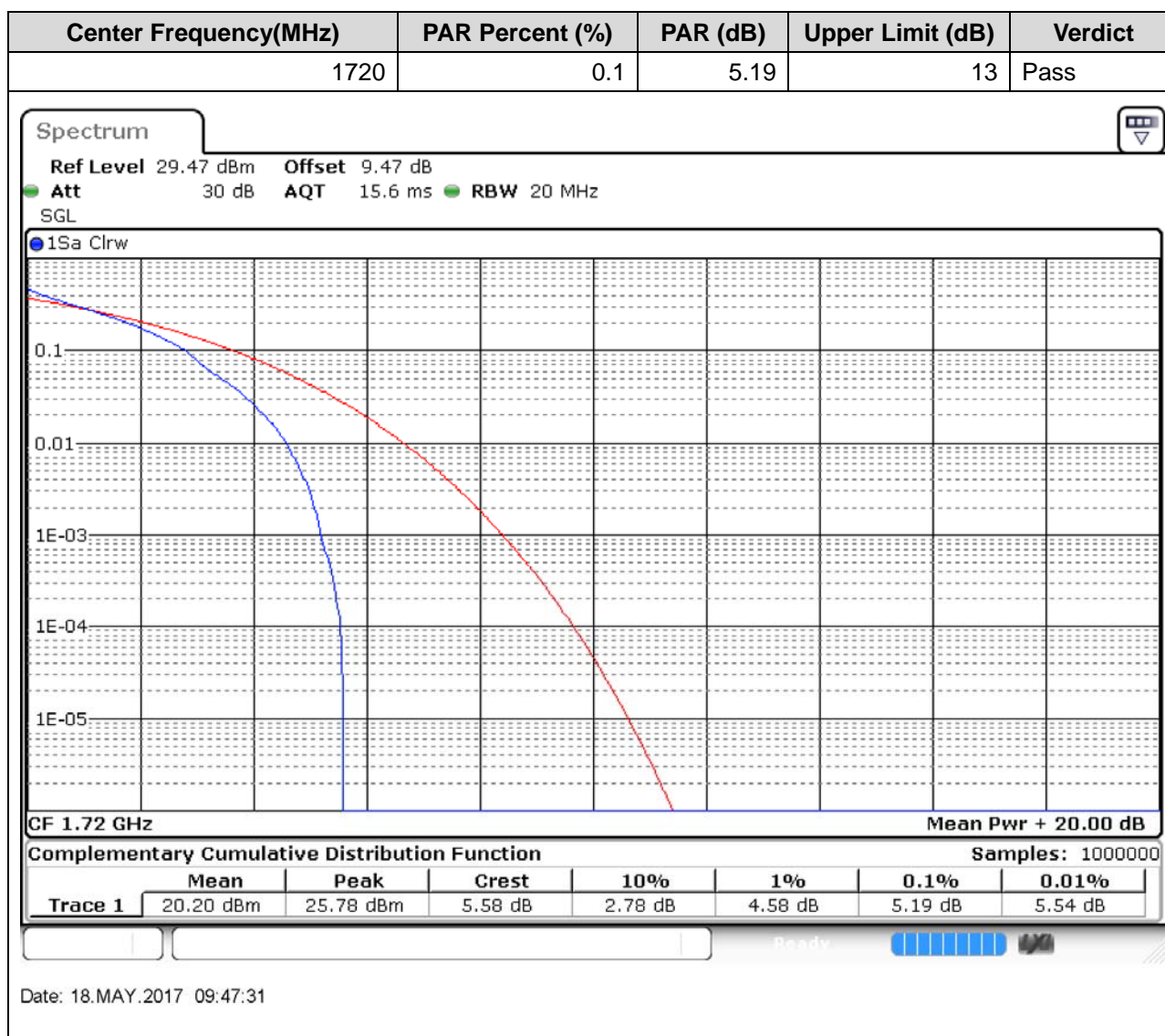
1.5. LTE Peak to Average Ratio(NTNV)(Subtest:2, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	5.54	13	Pass

Spectrum

Ref Level 29.47 dBm   Offset 9.47 dB
Att   30 dB   AQT   15.6 ms   RBW 20 MHz
SGL

1Sa Clrw

CF 1.72 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.81 dBm	27.95 dBm	7.14 dB	2.41 dB	4.43 dB	5.54 dB	6.23 dB

Date: 18.MAY.2017 09:47:37

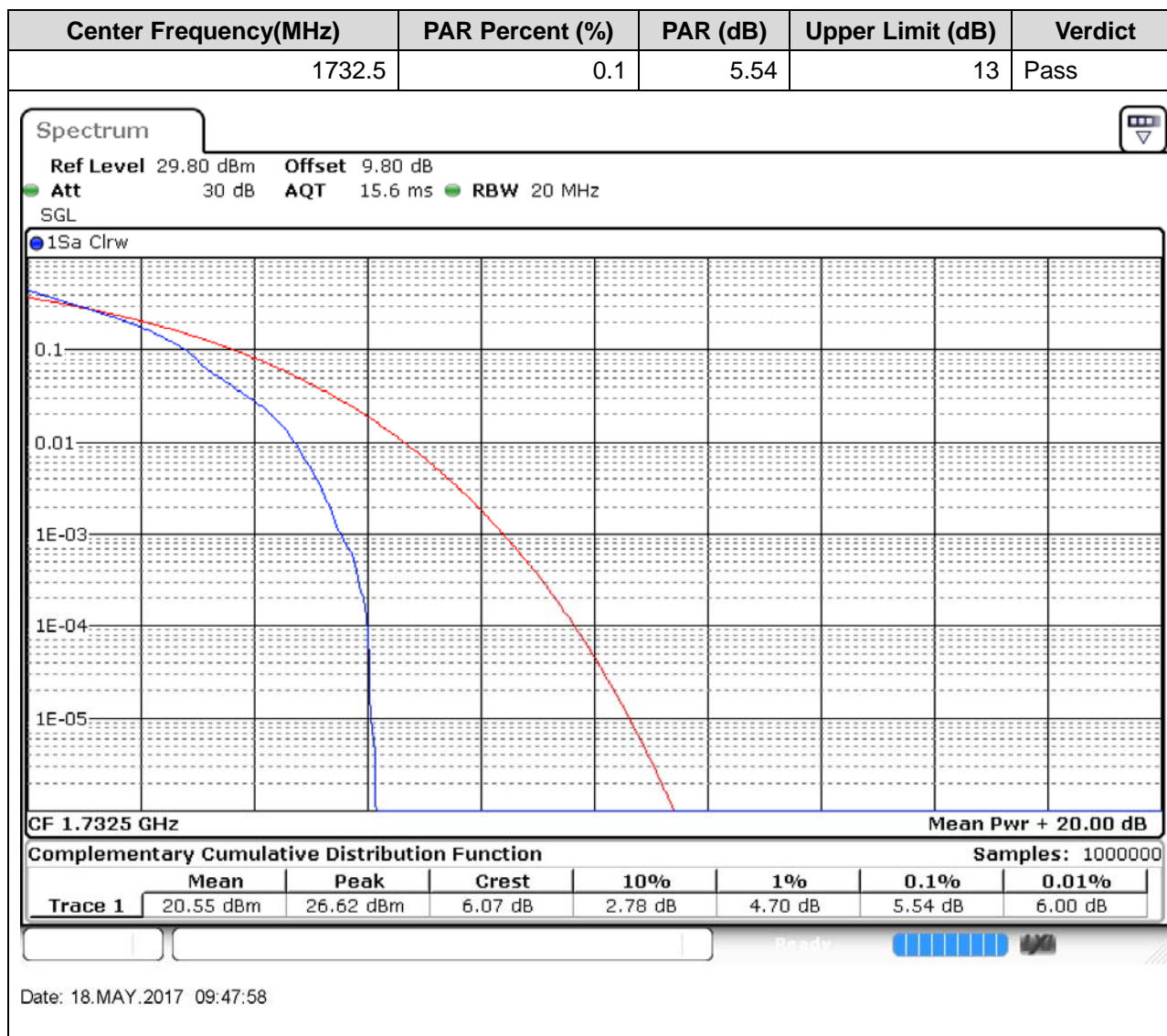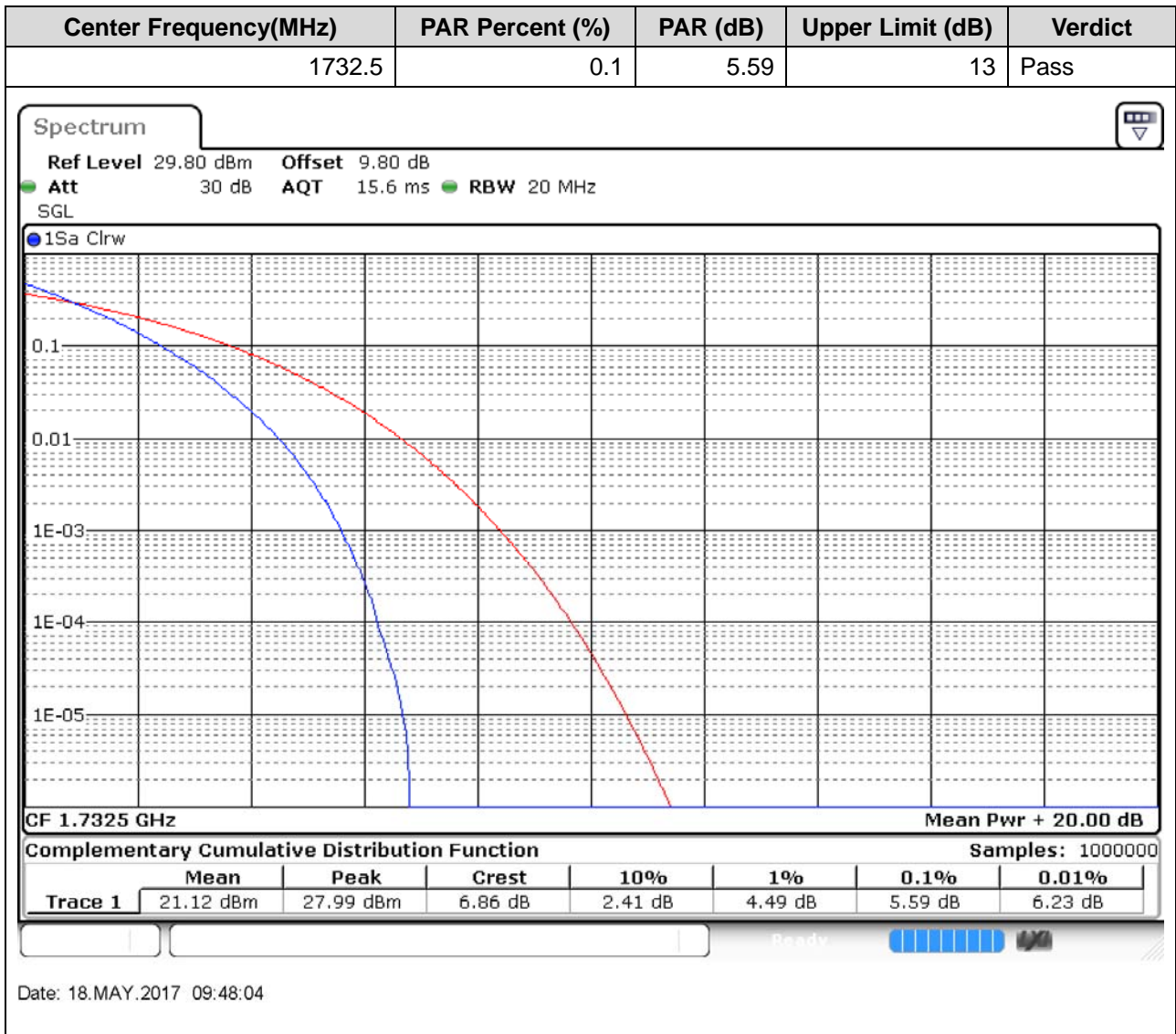## 1.6. LTE Peak to Average Ratio(NTNV)(Subtest:3, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	5.83	13	Pass

```
Spectrum                                                              [icon]
  Ref Level 29.47 dBm    Offset  9.47 dB
● Att         30 dB      AQT    15.6 ms  ● RBW  20 MHz
  SGL
●1Sa Clrw



0.1


0.01


1E-03


1E-04


1E-05



CF 1.72 GHz                                           Mean Pwr + 20.00 dB
```

Complementary Cumulative Distribution Function						Samples: 1000000
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.39 dBm	25.54 dBm	6.15 dB	2.96 dB	5.10 dB	5.83 dB	6.06 dB

Date: 18.MAY.2017 09:47:43

1.7. LTE Peak to Average Ratio(NTNV)(Subtest:4, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1720	0.1	6.46	13	Pass
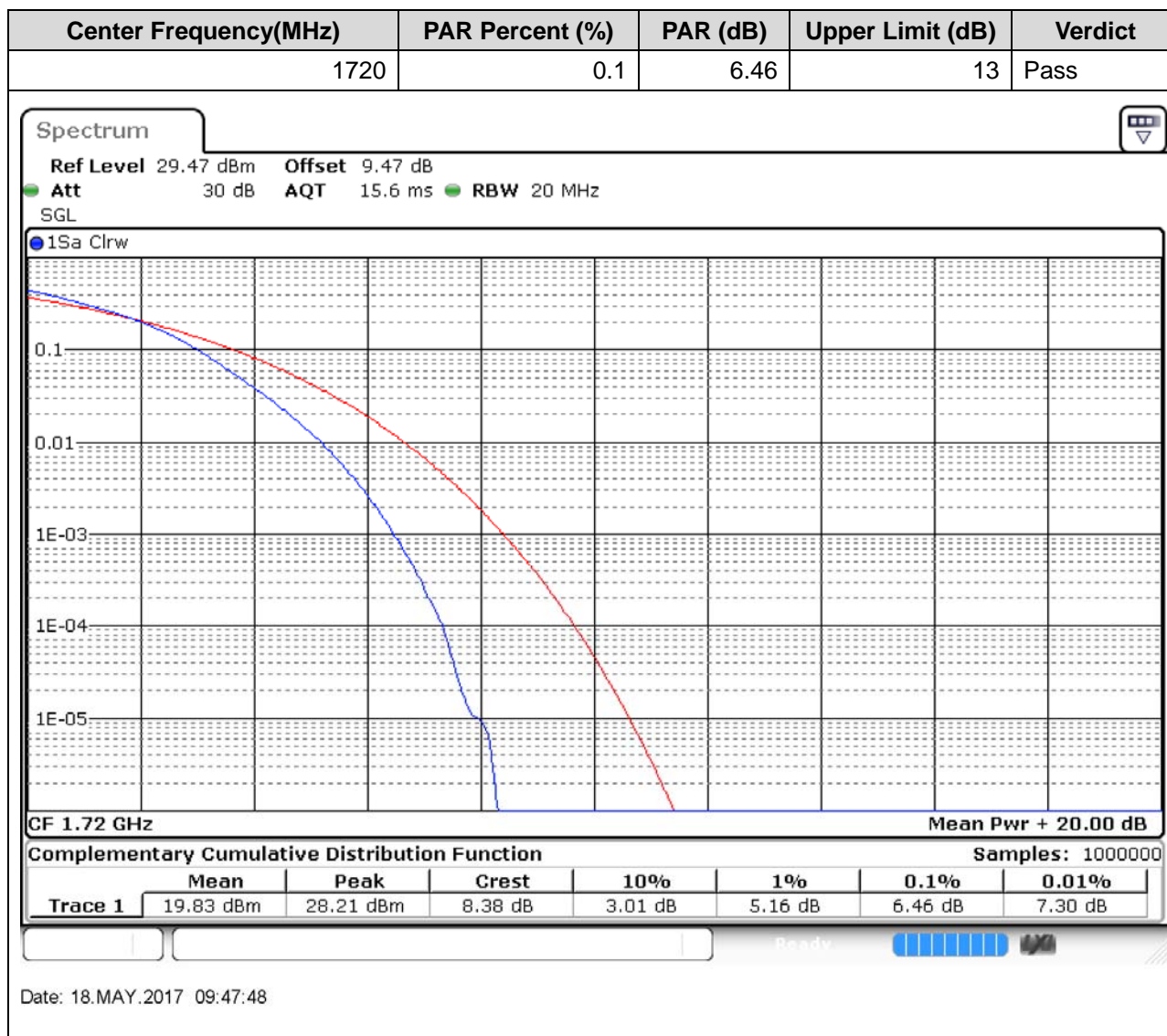
1.8. LTE Peak to Average Ratio(NTNV)(Subtest:5, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	5.54	13	Pass

Spectrum

Ref Level 29.80 dBm   Offset 9.80 dB
● Att   30 dB   AQT   15.6 ms ● RBW 20 MHz
SGL

● 1Sa Clrw

0.1

0.01

1E-03

1E-04

1E-05

CF 1.7325 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 1000000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.55 dBm	26.62 dBm	6.07 dB	2.78 dB	4.70 dB	5.54 dB	6.00 dB

Date: 18.MAY.2017 09:47:58

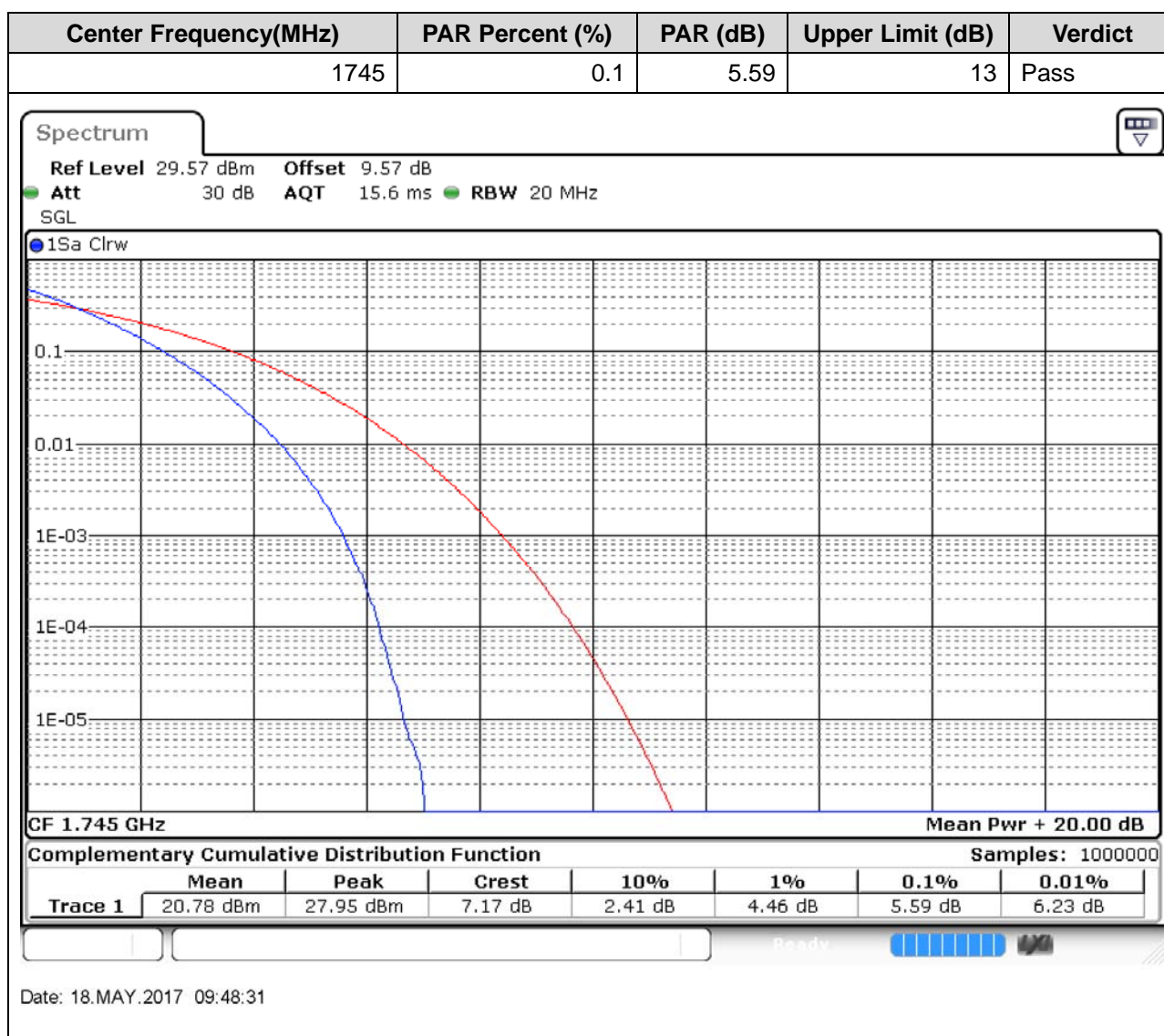## 1.9. LTE Peak to Average Ratio(NTNV)(Subtest:6, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	5.59	13	Pass

Spectrum

Ref Level 29.80 dBm Offset 9.80 dB
Att 30 dB AQT 15.6 ms RBW 20 MHz
SGL
1Sa Clrw

CF 1.7325 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 1000000

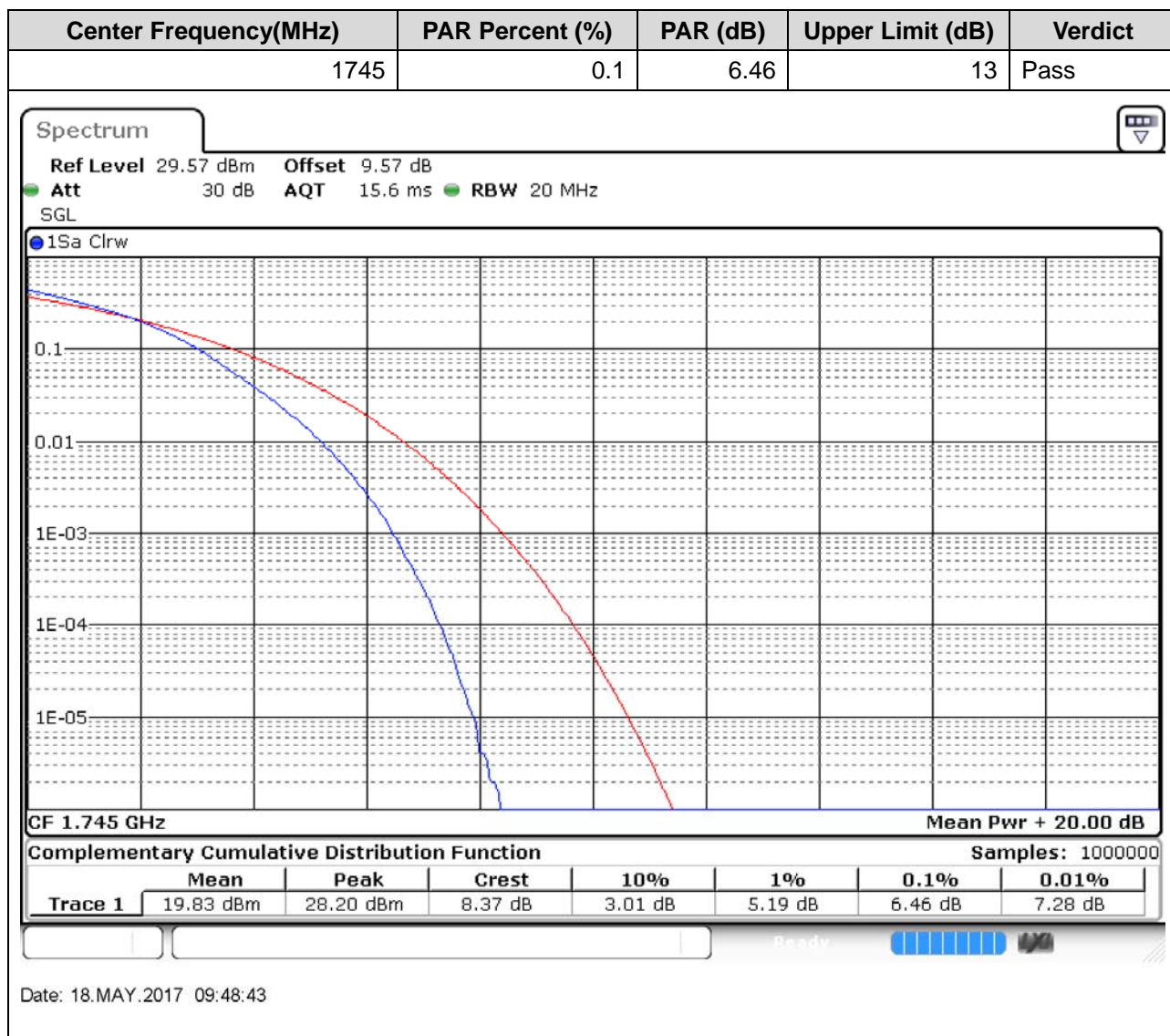|	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.12 dBm	27.99 dBm	6.86 dB	2.41 dB	4.49 dB	5.59 dB	6.23 dB

Date: 18.MAY.2017 09:48:04

1.10. LTE Peak to Average Ratio(NTNV)(Subtest:7, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	6.35	13	Pass
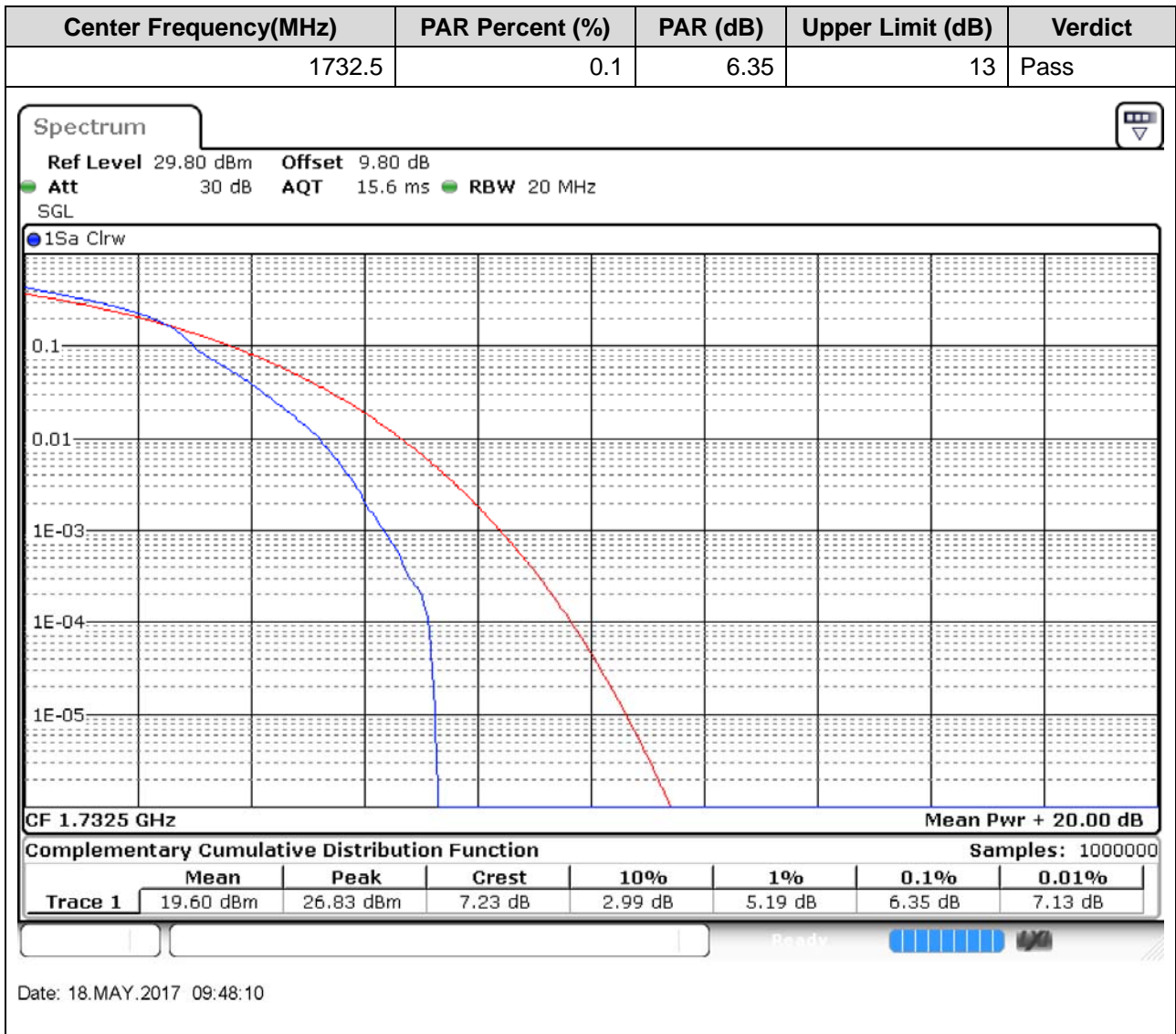
1.11. LTE Peak to Average Ratio(NTNV)(Subtest:8, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

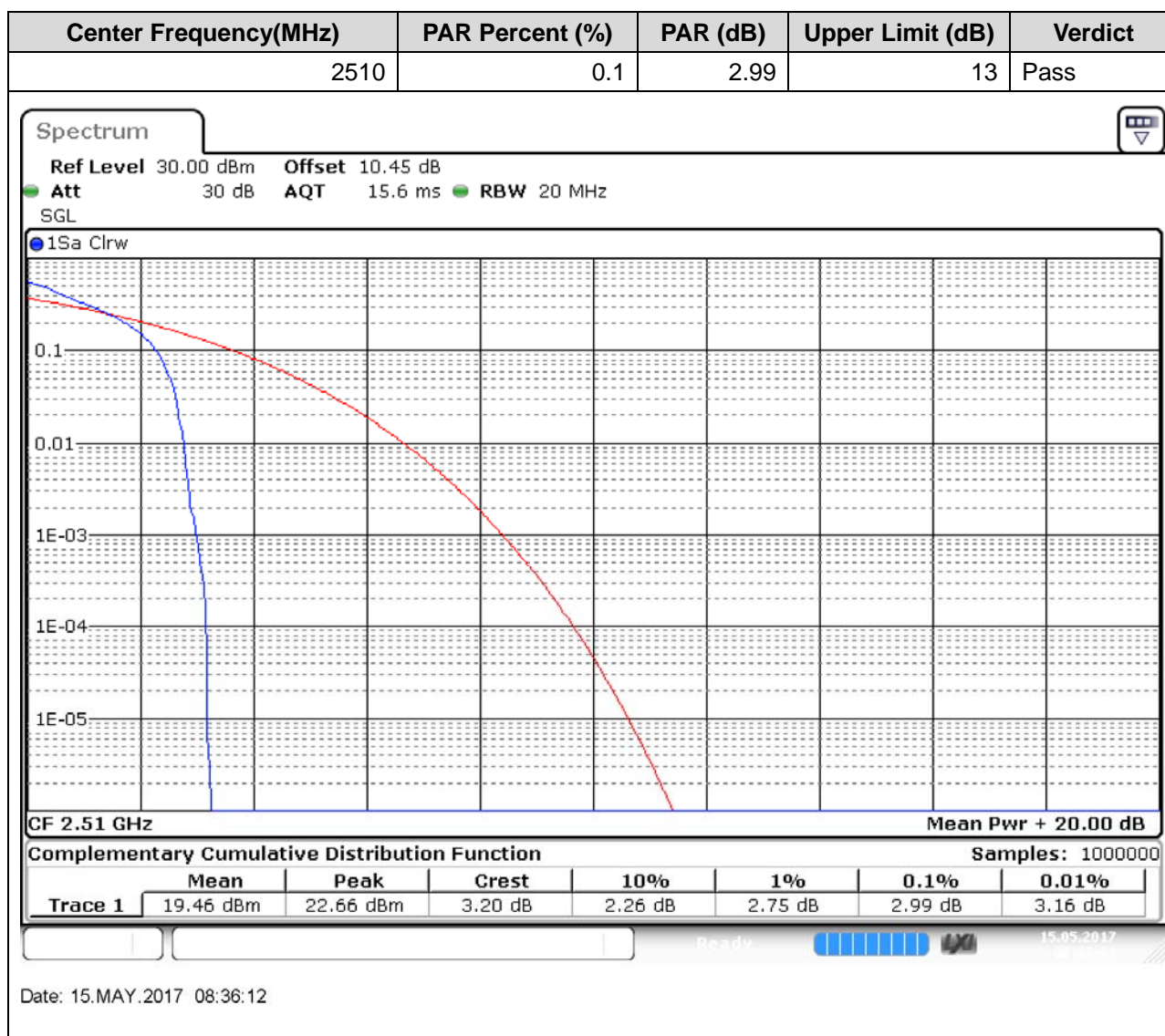| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1732.5	0.1	6.52	13	Pass
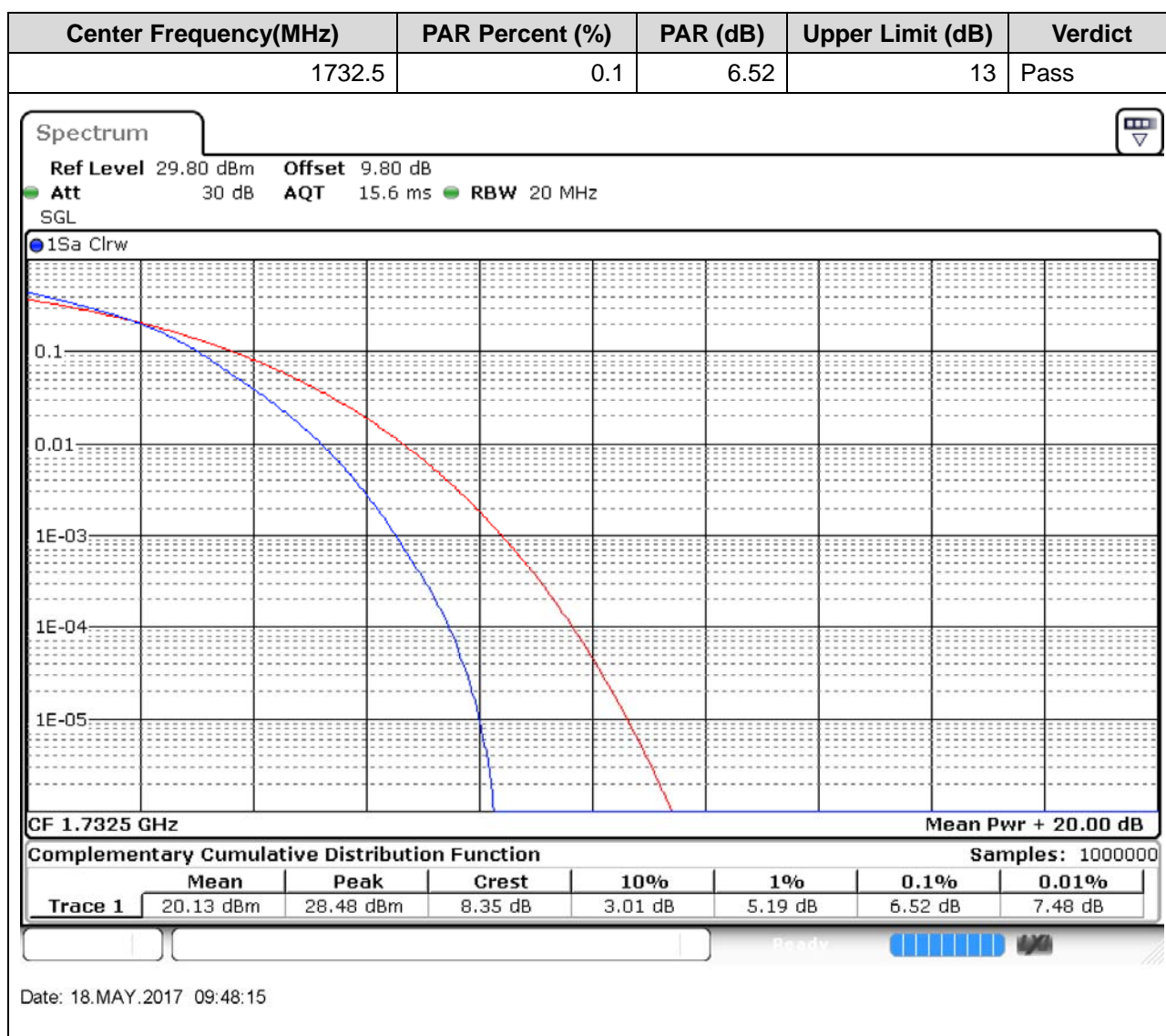
1.12. LTE Peak to Average Ratio(NTNV)(Subtest:9, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	5.59	13	Pass
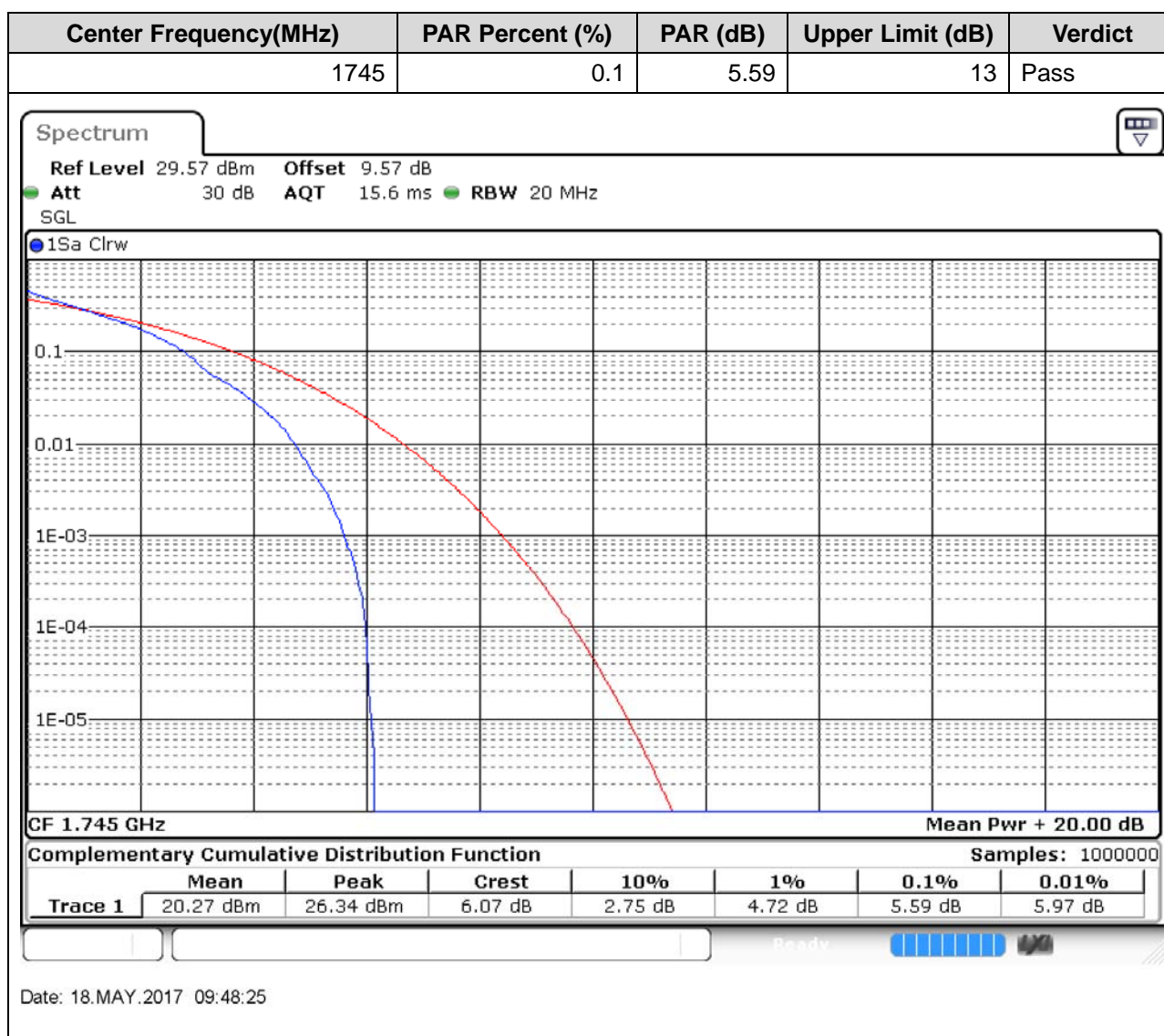
1.13. LTE Peak to Average Ratio(NTNV)(Subtest:10, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	5.59	13	Pass

1.14. LTE Peak to Average Ratio(NTNV)(Subtest:11, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	6.58	13	Pass
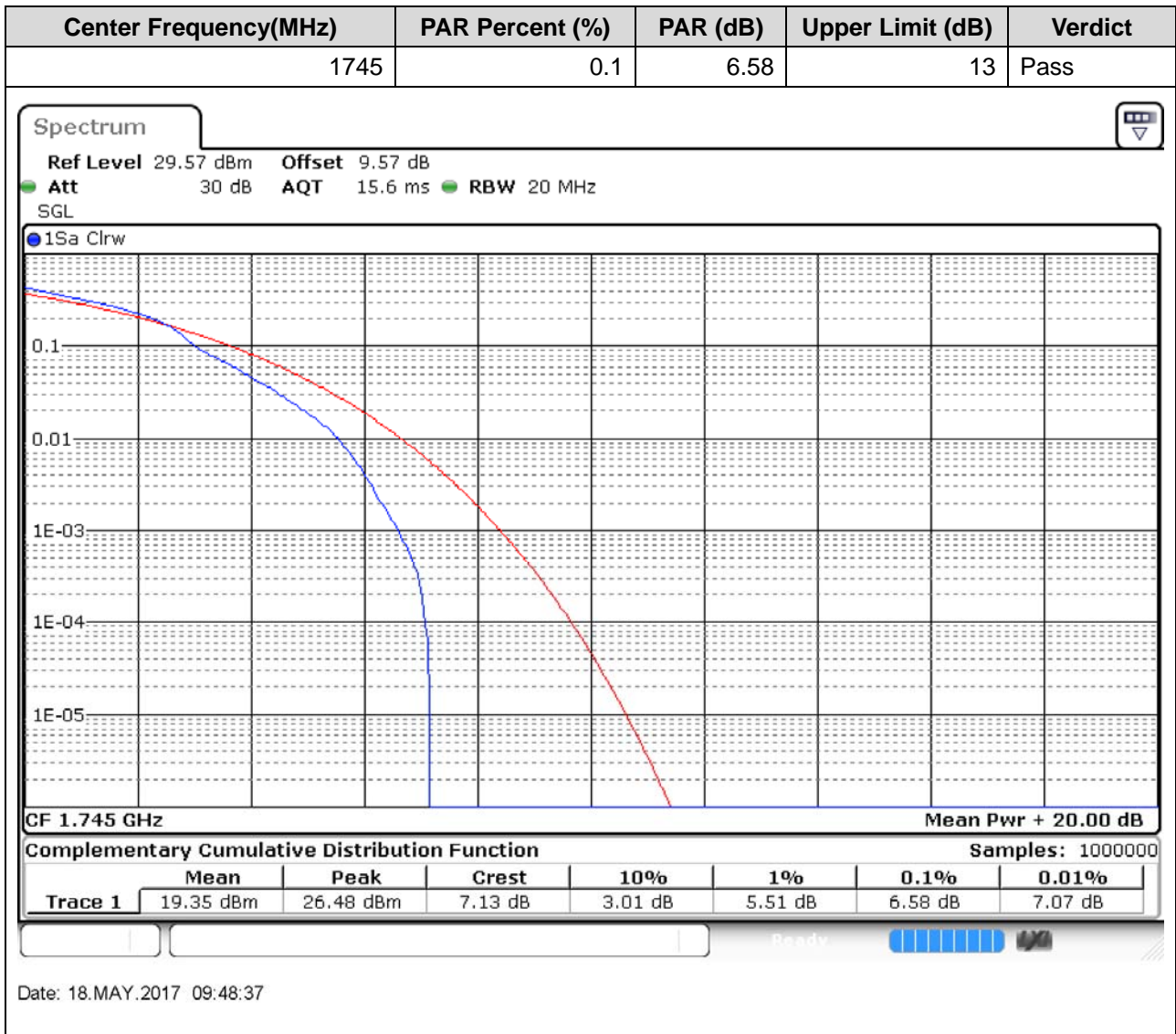
1.15.   LTE Peak to Average Ratio(NTNV)(Subtest:12, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)
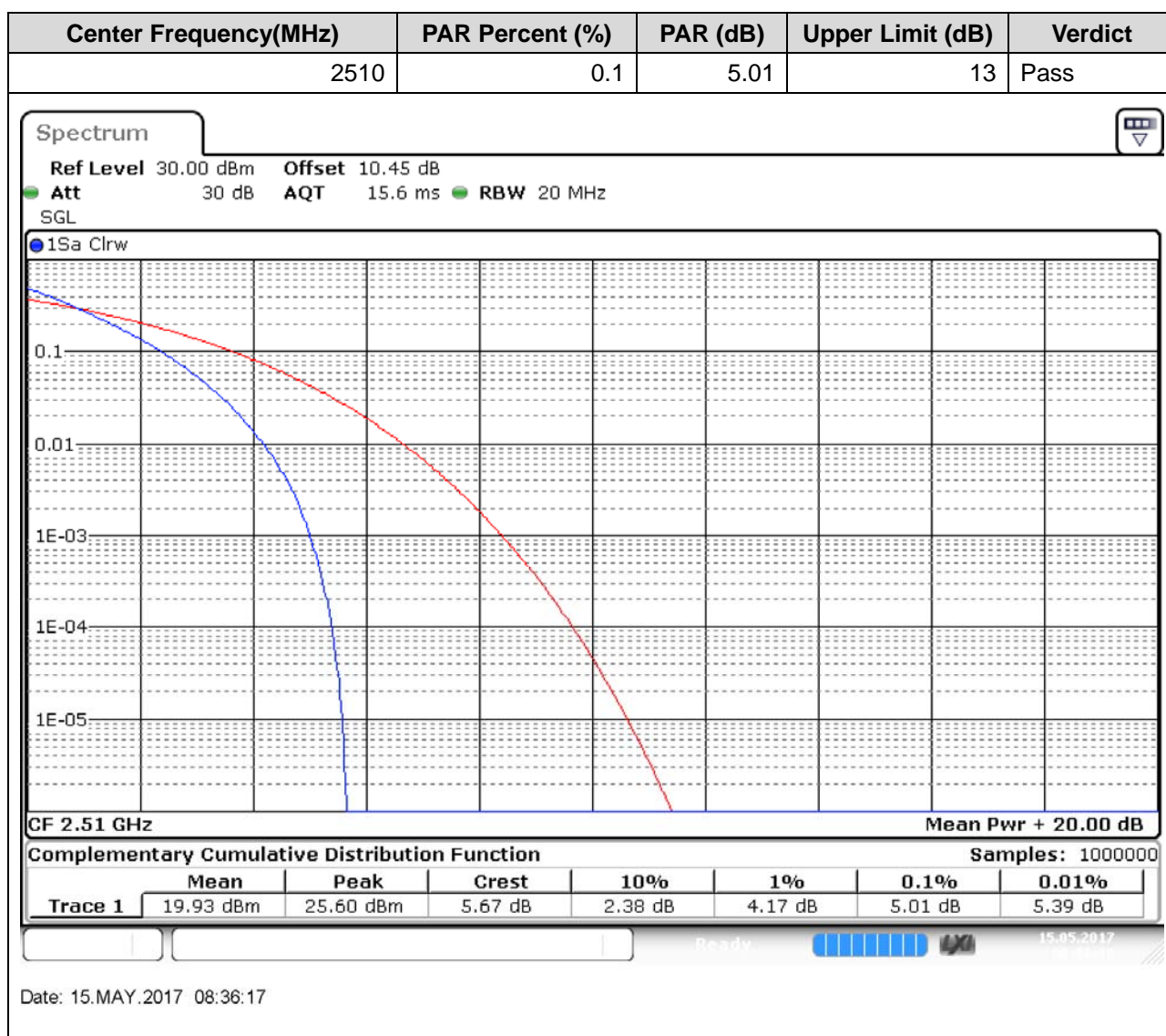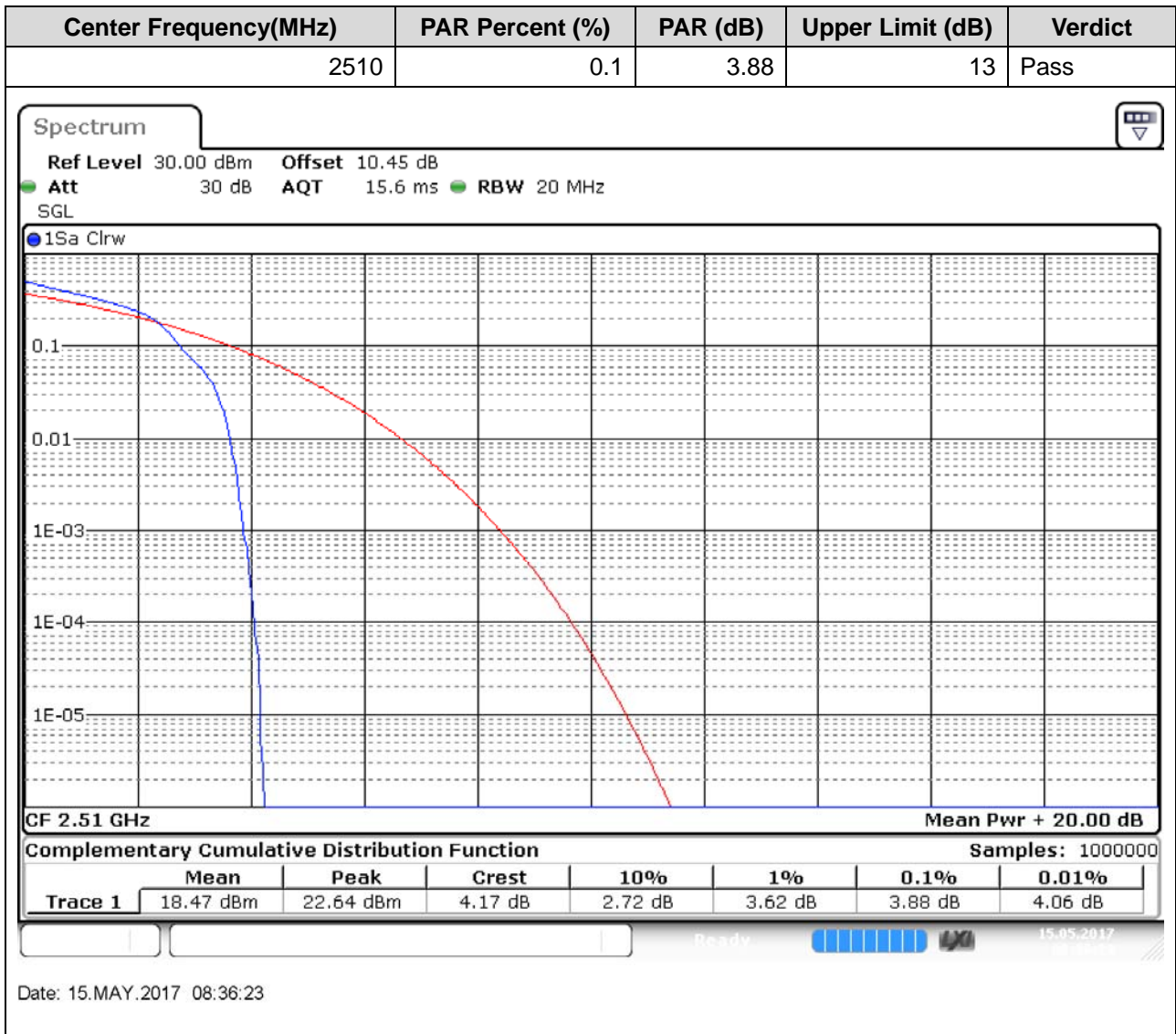
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
1745	0.1	6.46	13	Pass

Date: 18.MAY.2017 09:48:43

LTE_Band7

1.16. LTE Peak to Average Ratio(NTNV)(Subtest:1, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	2.99	13	Pass

Date: 15.MAY.2017 08:36:12

1.17. LTE Peak to Average Ratio(NTNV)(Subtest:2, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	5.01	13	Pass

Spectrum

Ref Level 30.00 dBm   Offset 10.45 dB
Att   30 dB   AQT   15.6 ms   RBW 20 MHz
SGL
1Sa Clrw

0.1
0.01
1E-03
1E-04
1E-05

CF 2.51 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 1000000

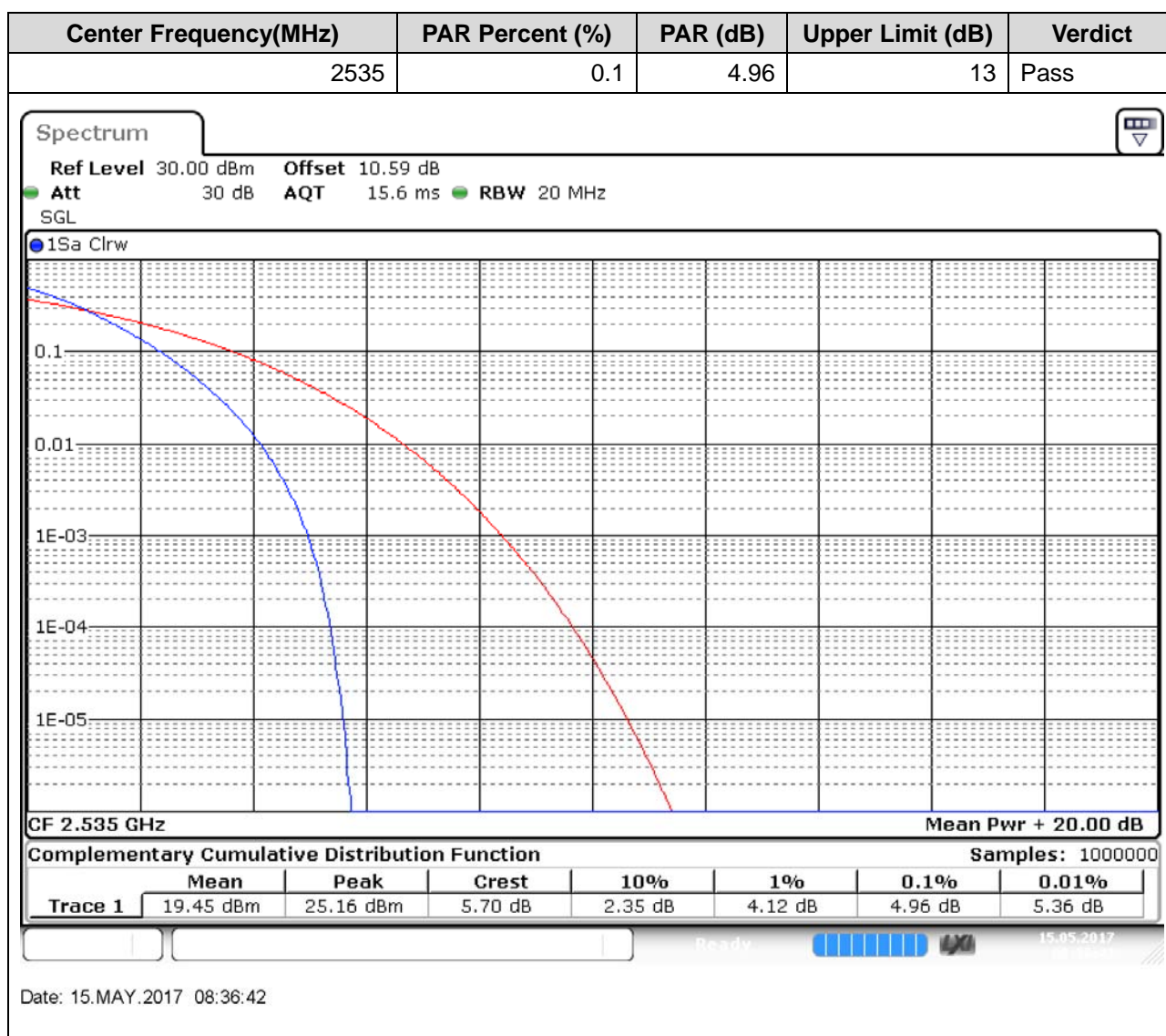|	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.93 dBm	25.60 dBm	5.67 dB	2.38 dB	4.17 dB	5.01 dB	5.39 dB

Ready

Date: 15.MAY.2017 08:36:17

1.18. LTE Peak to Average Ratio(NTNV)(Subtest:3, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	3.88	13	Pass

Date: 15.MAY.2017 08:36:23

1.19. LTE Peak to Average Ratio(NTNV)(Subtest:4, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2510	0.1	5.94	13	Pass
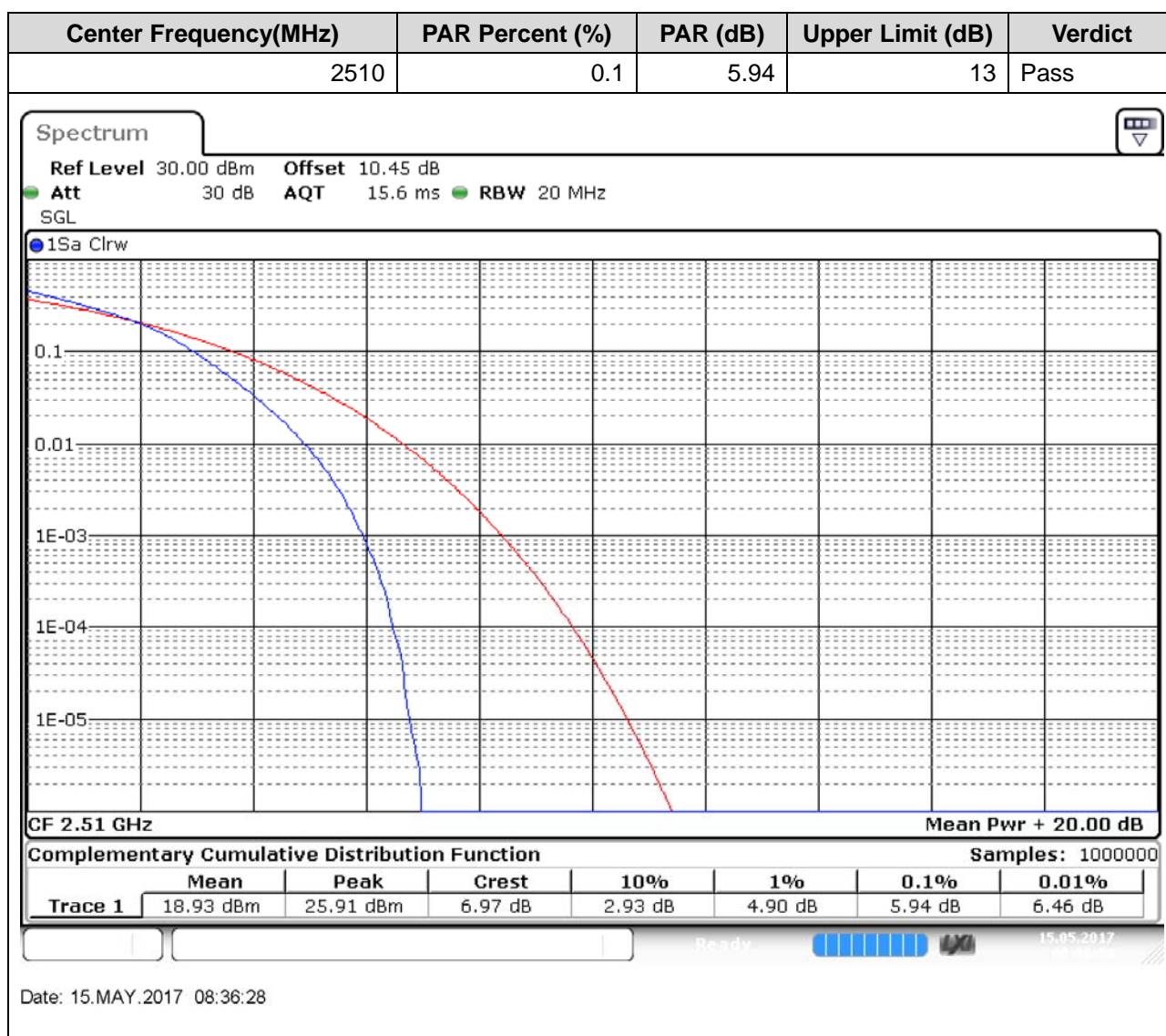
1.20. LTE Peak to Average Ratio(NTNV)(Subtest:5, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2535	0.1	3.19	13	Pass
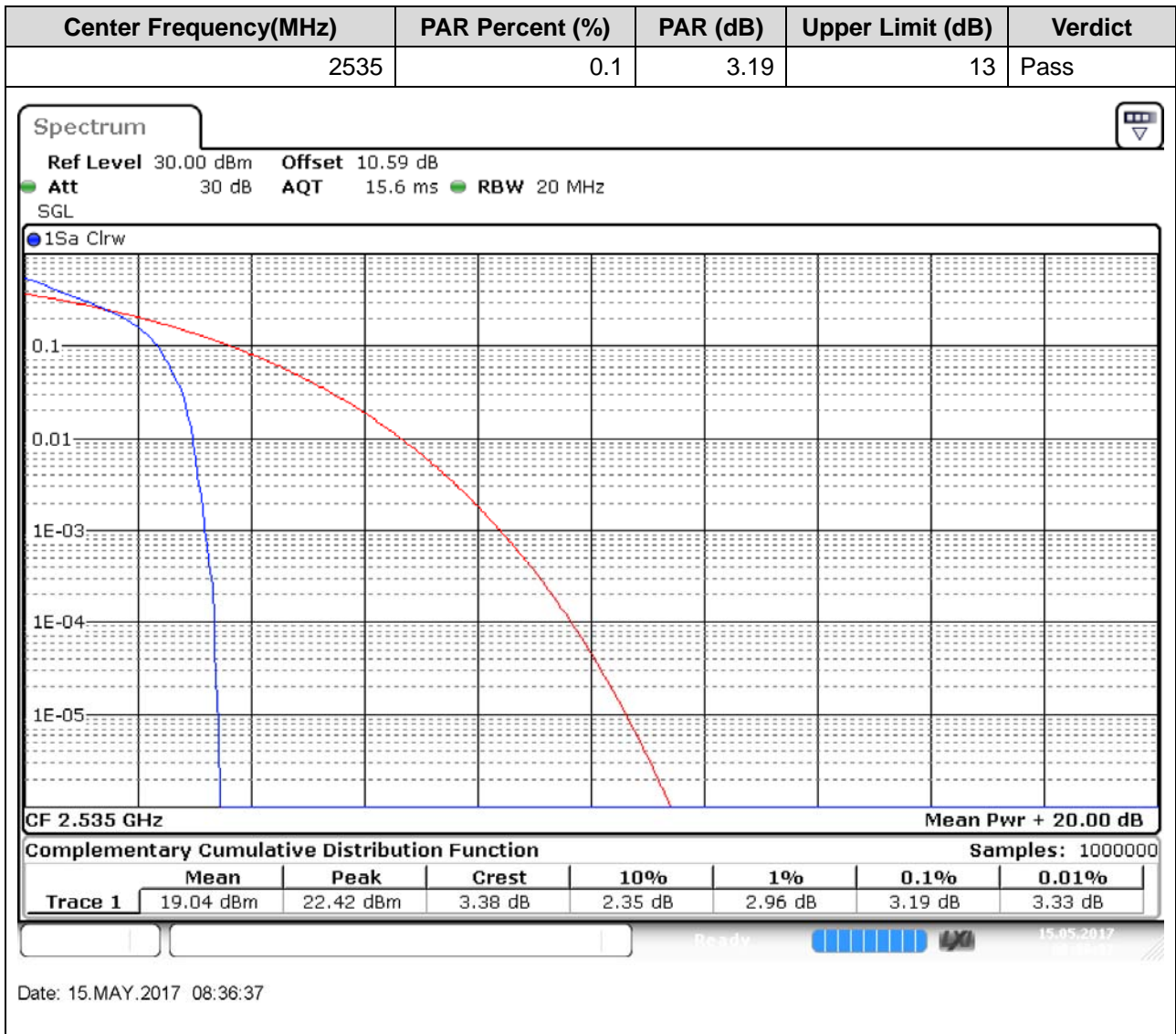
1.21. LTE Peak to Average Ratio(NTNV)(Subtest:6, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2535	0.1	4.96	13	Pass

Date: 15.MAY.2017 08:36:42

1.22. LTE Peak to Average Ratio(NTNV)(Subtest:7, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

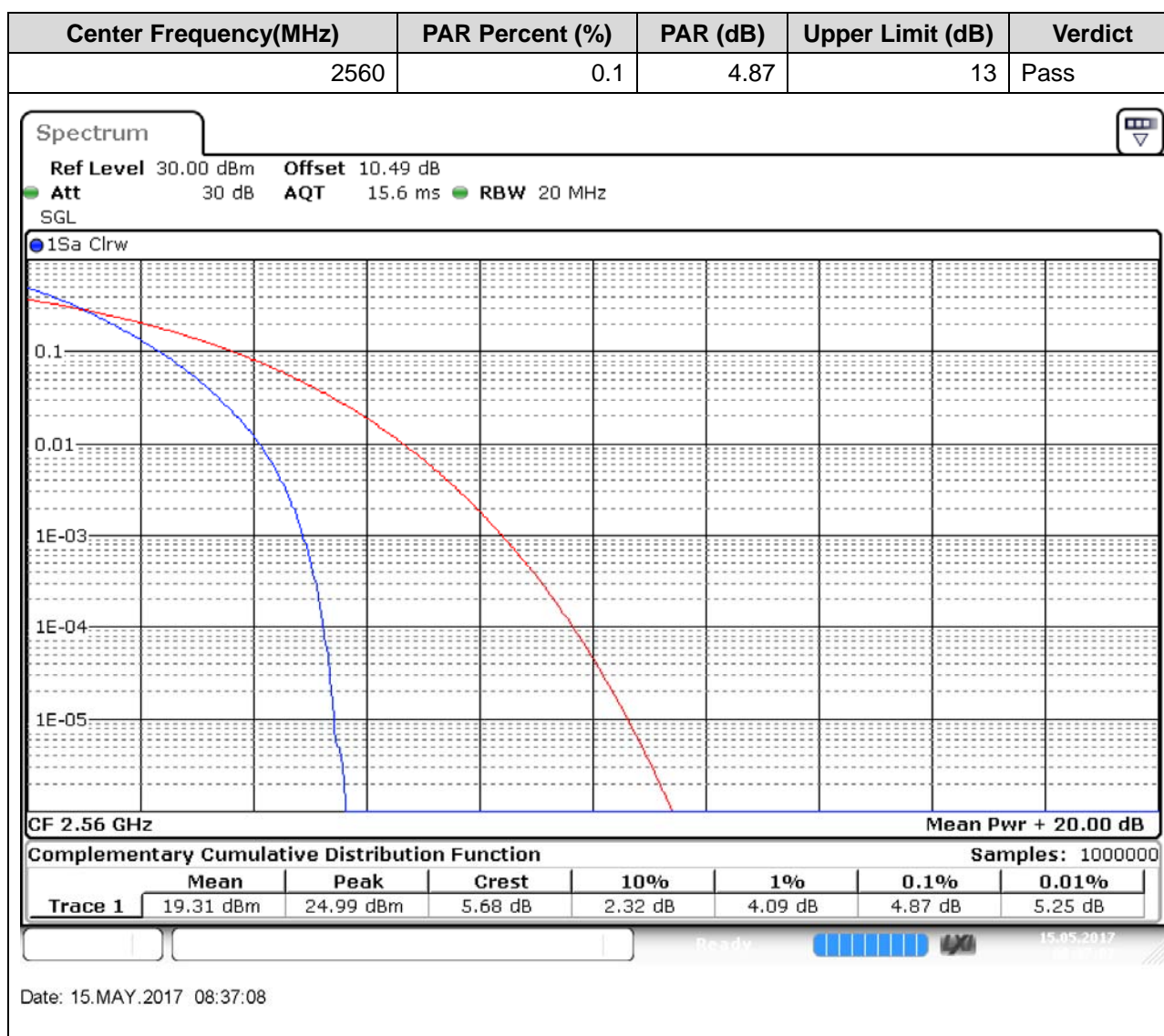| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2535	0.1	4.14	13	Pass
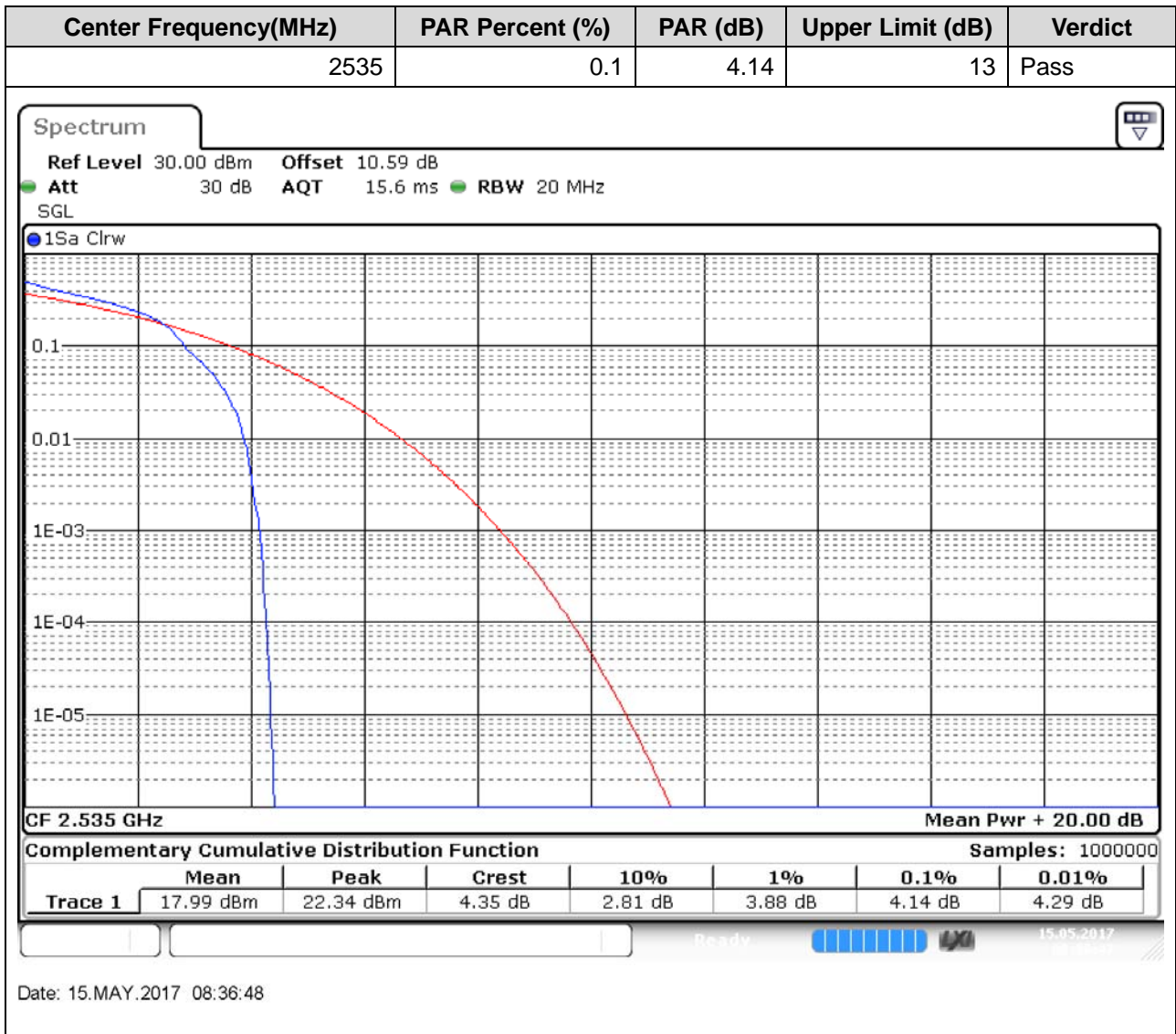
1.23. LTE Peak to Average Ratio(NTNV)(Subtest:8, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2535	0.1	5.88	13	Pass
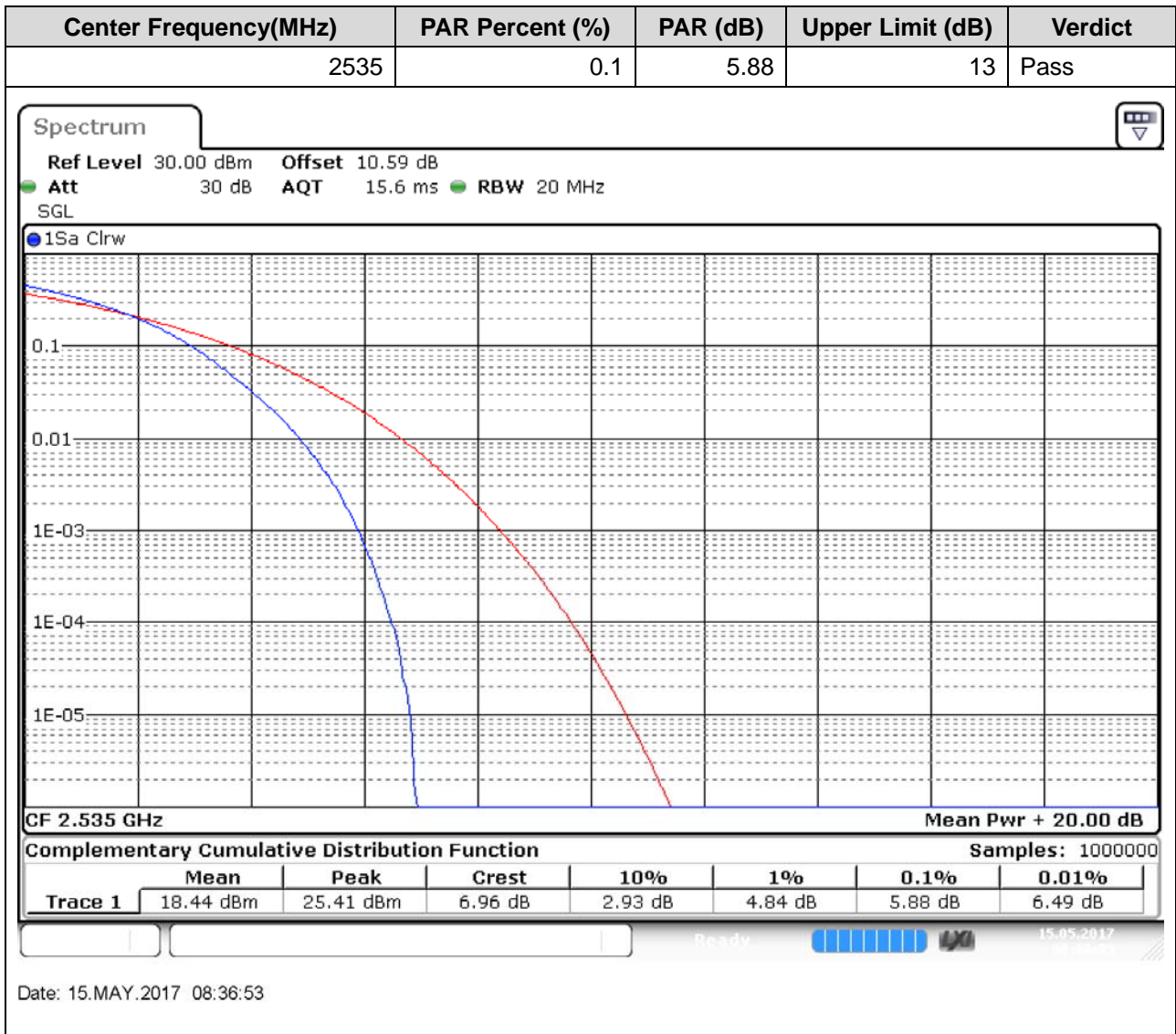
1.24. LTE Peak to Average Ratio(NTNV)(Subtest:9, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 1, RB Position:LOW)

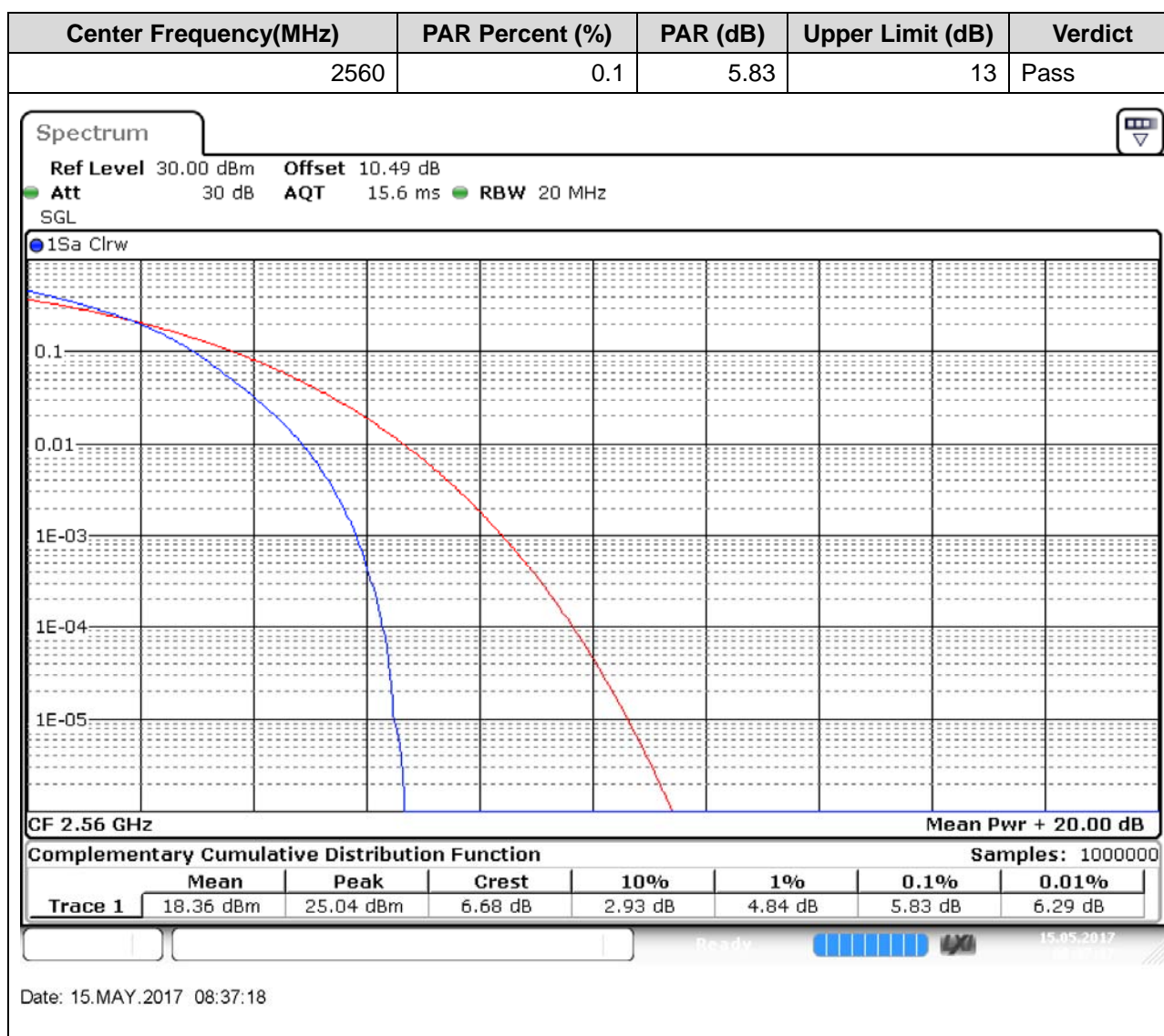| Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2560	0.1	3.86	13	Pass
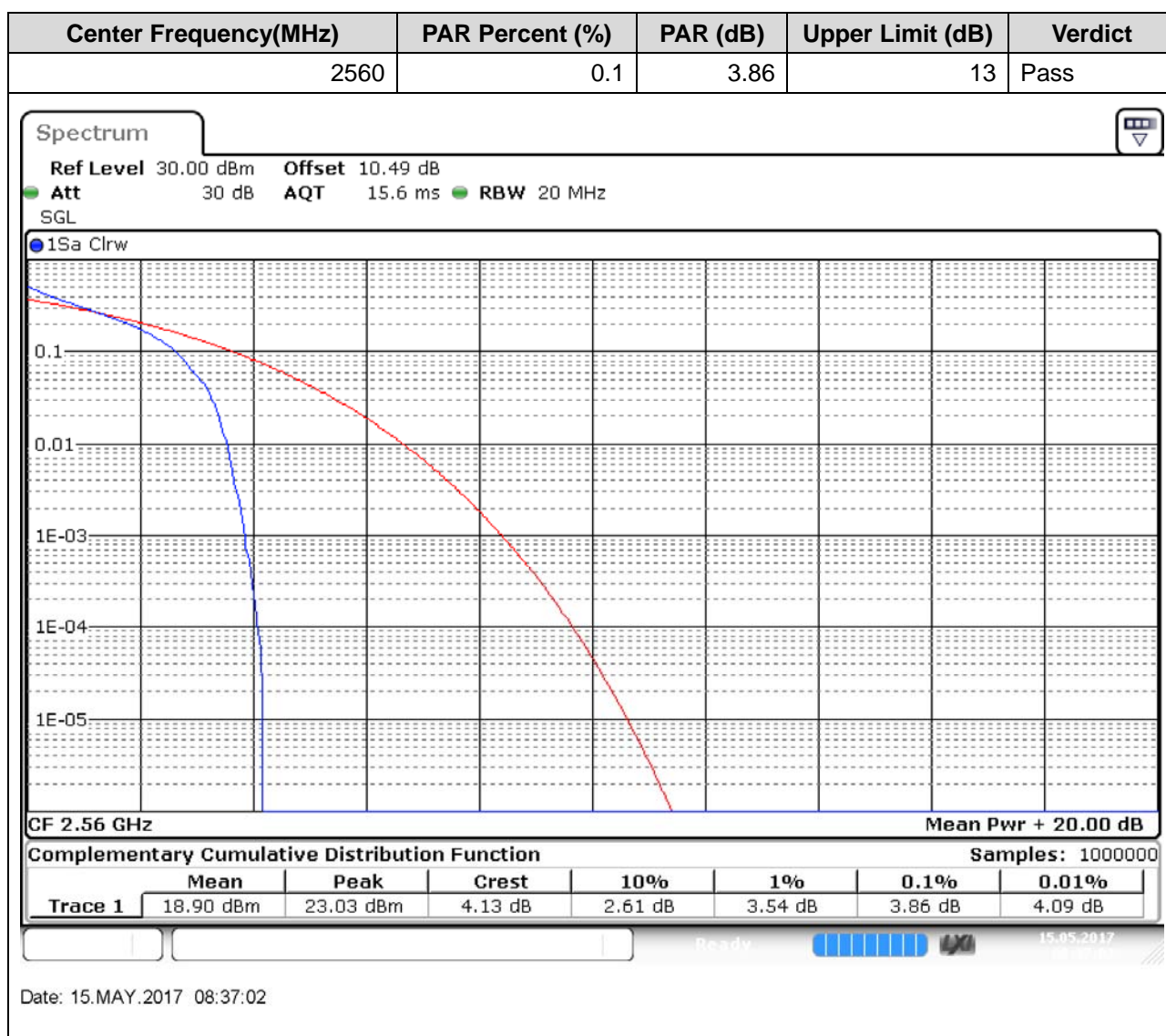
1.25. LTE Peak to Average Ratio(NTNV)(Subtest:10, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2560	0.1	4.87	13	Pass

Date: 15.MAY.2017 08:37:08

1.26. LTE Peak to Average Ratio(NTNV)(Subtest:11, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2560	0.1	4.81	13	Pass
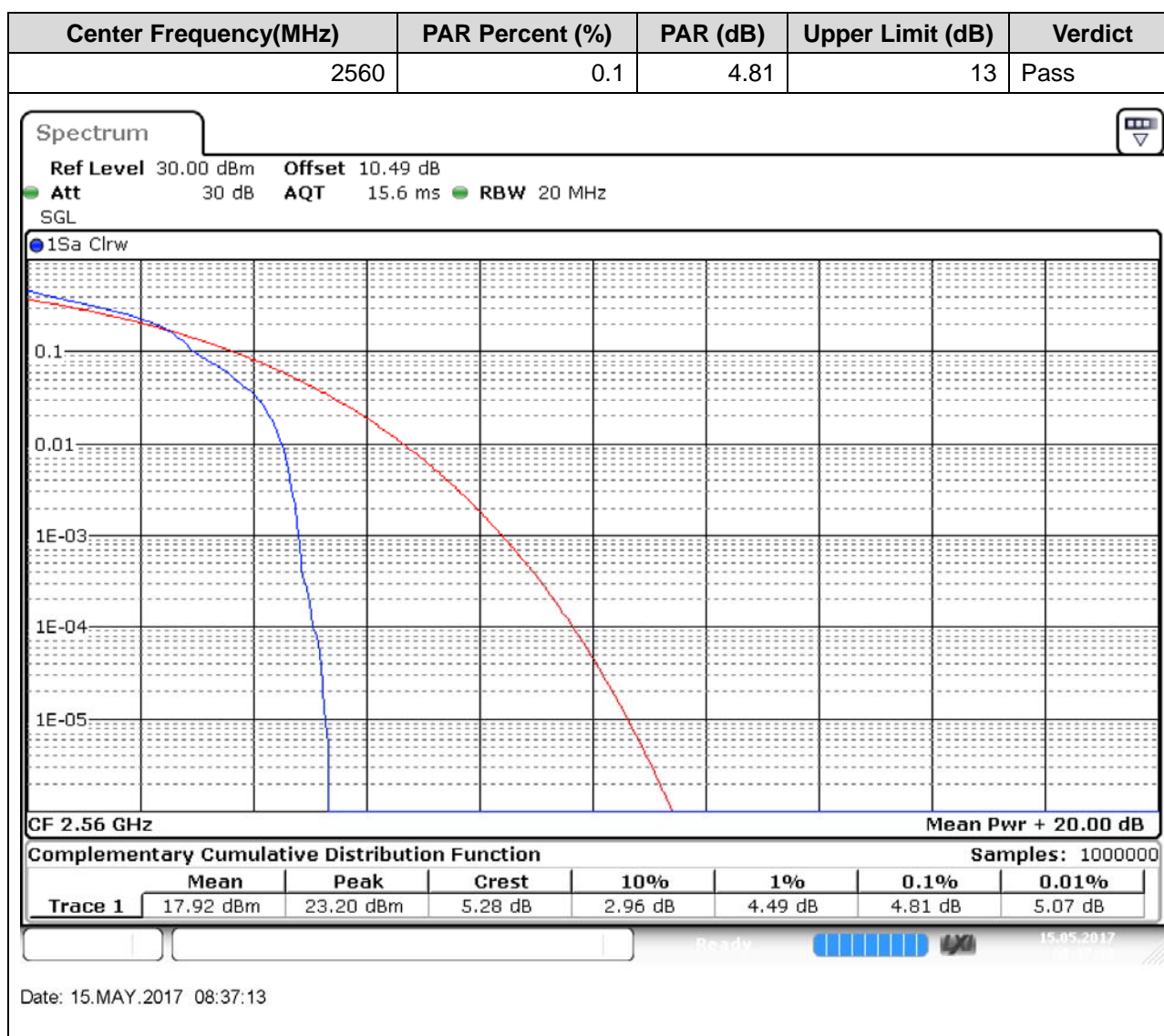
1.27. LTE Peak to Average Ratio(NTNV)(Subtest:12, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
2560	0.1	5.83	13	Pass

END