

Fig.19

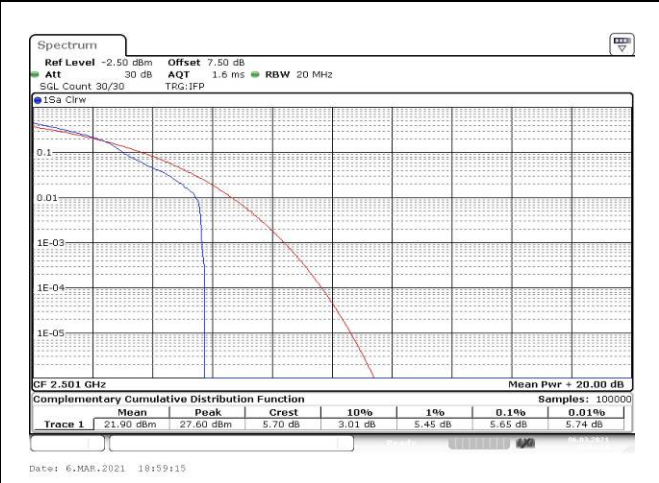


Fig.20

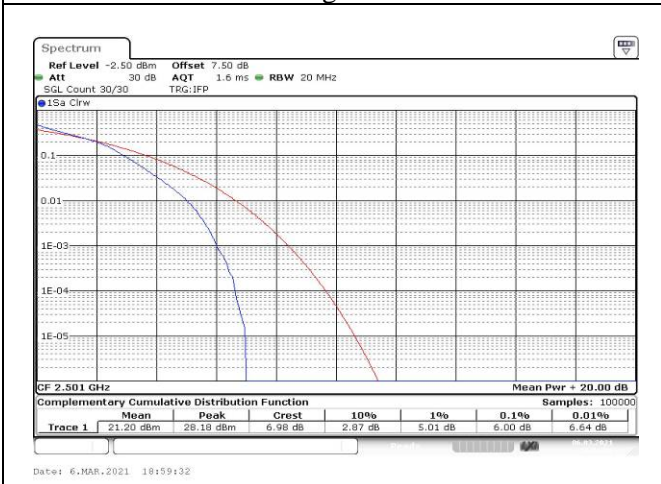


Fig.21

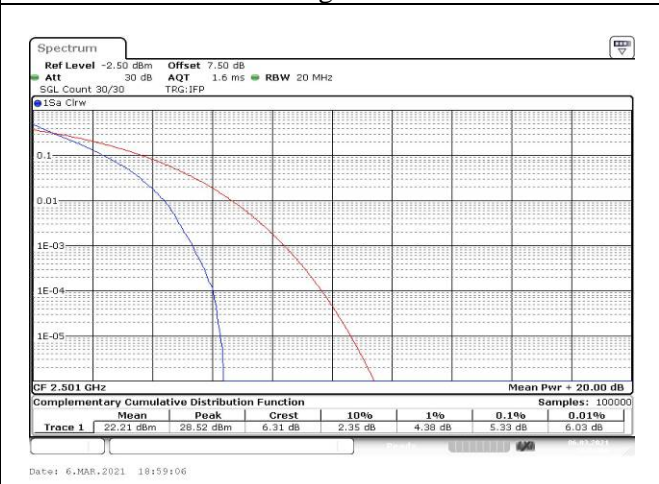


Fig.22

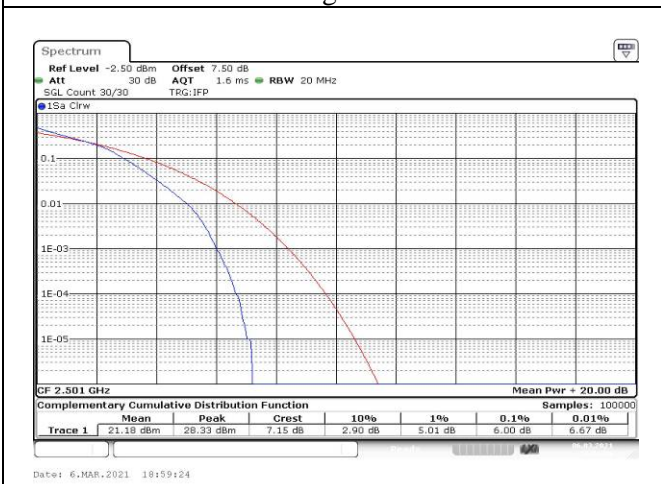


Fig.23

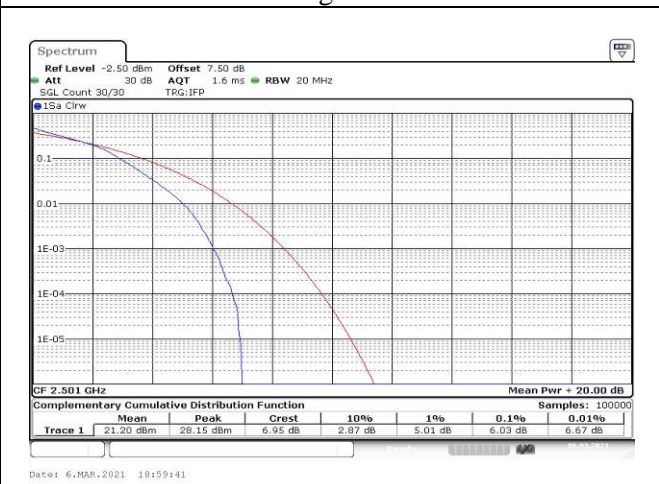


Fig.24

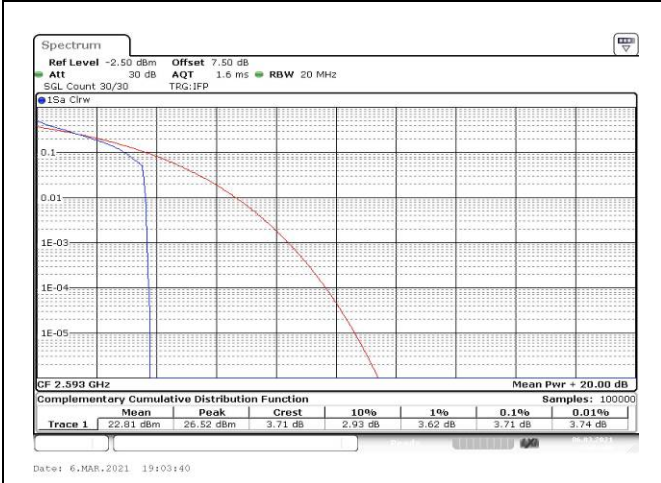


Fig.25

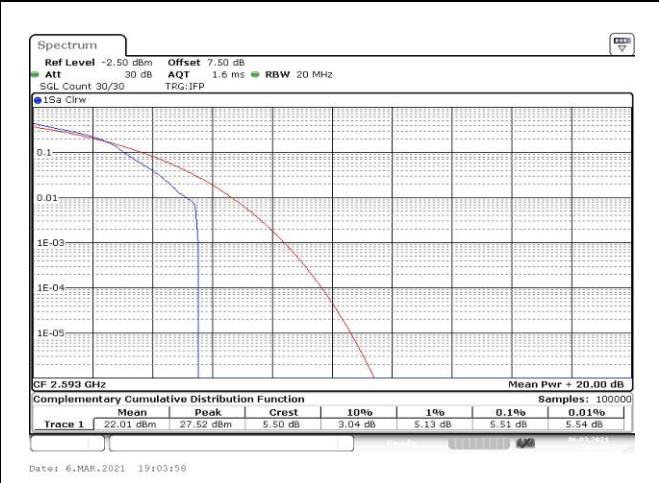


Fig.26

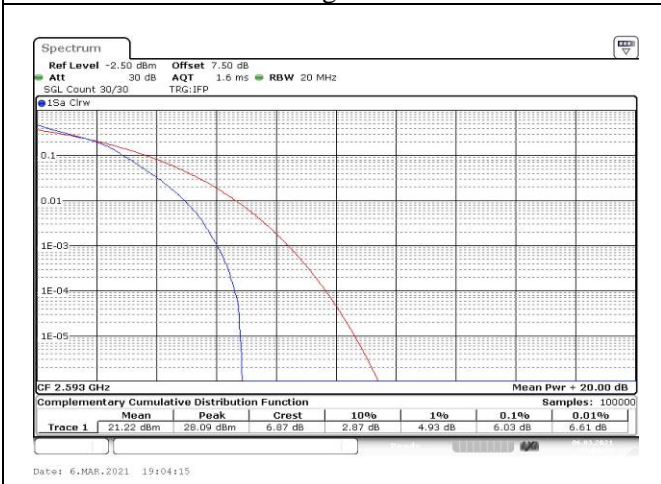


Fig.27

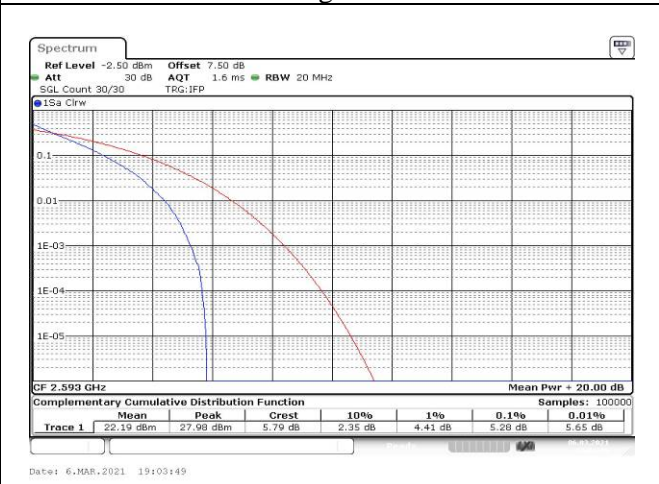


Fig.28

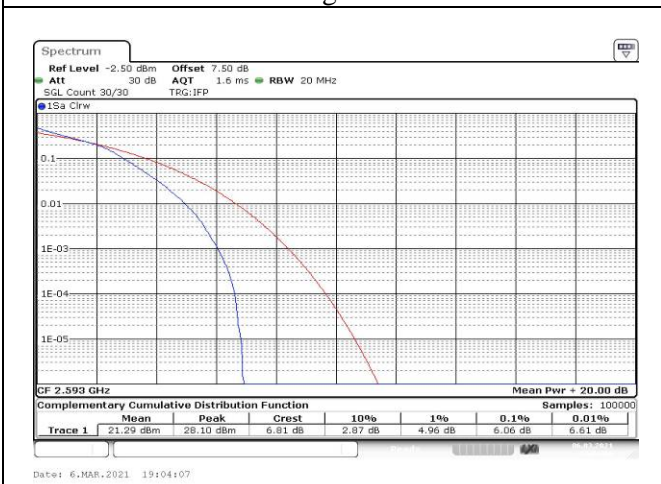


Fig.29

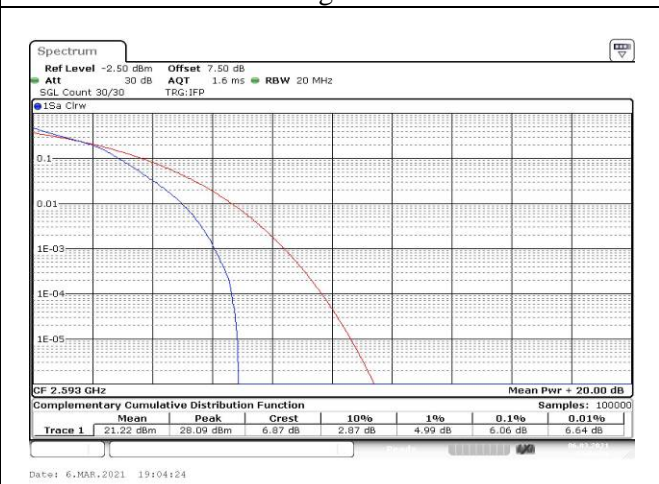


Fig.30

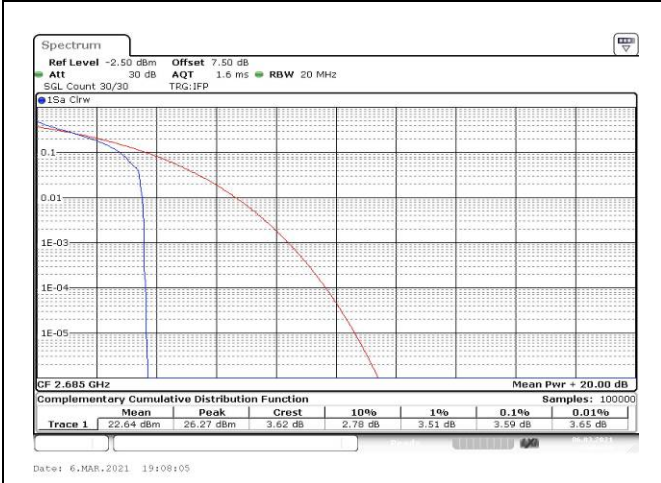


Fig.31

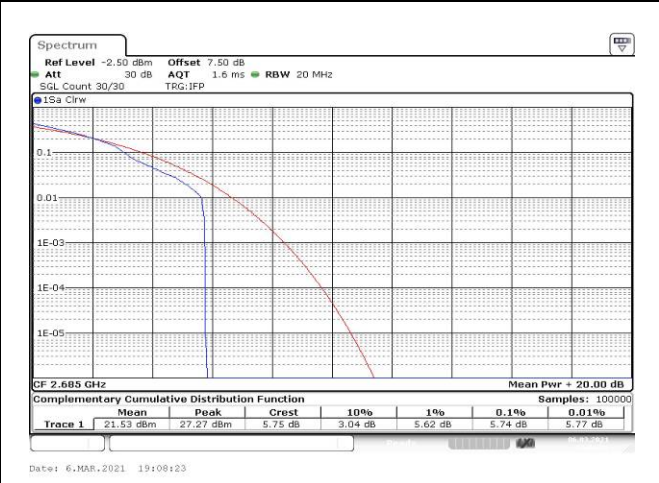


Fig.32

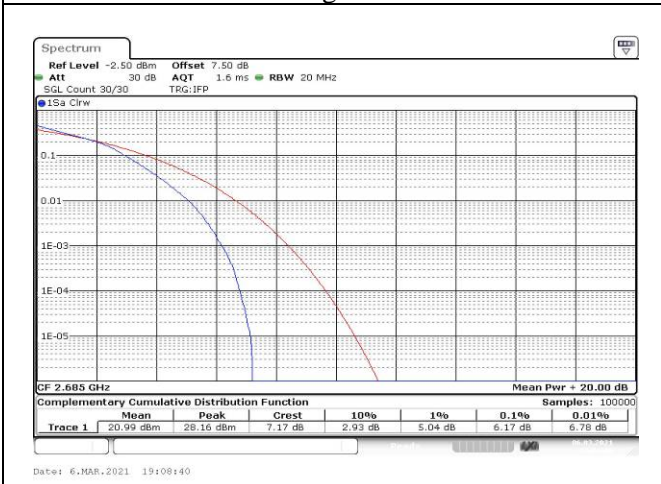


Fig.33

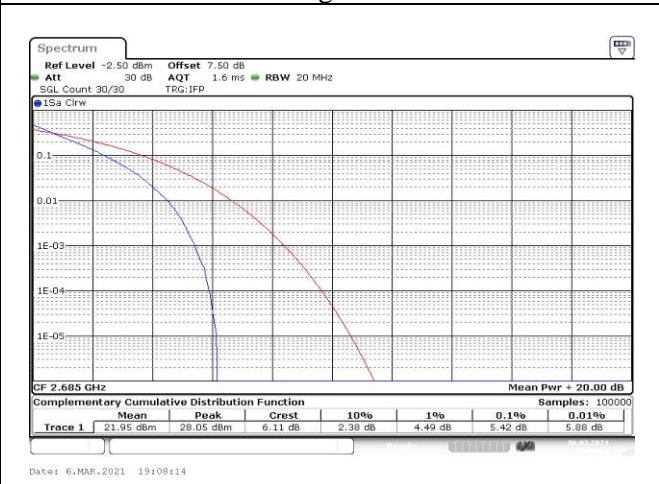


Fig.34

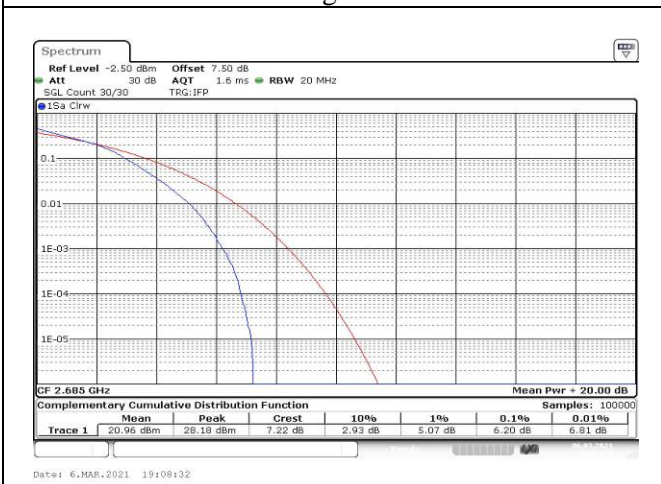


Fig.35

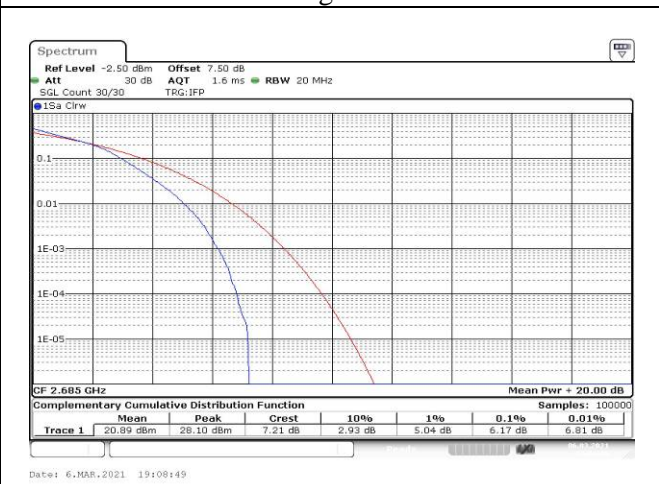


Fig.36

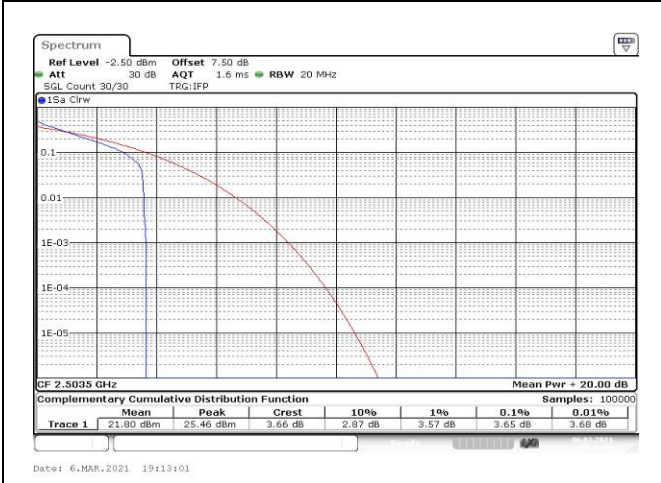


Fig.37

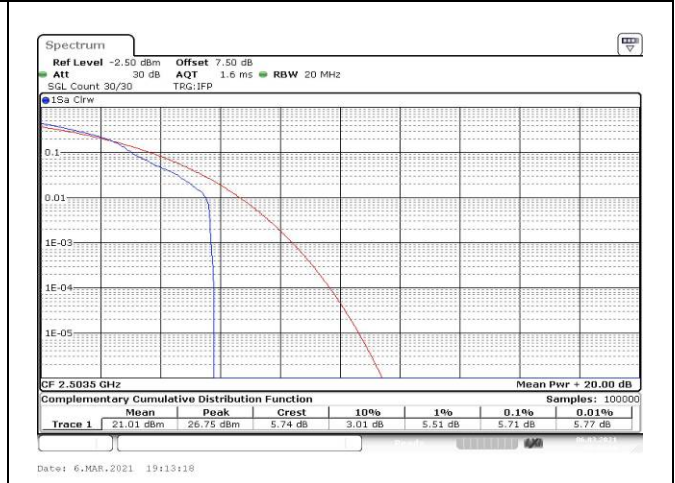


Fig.38

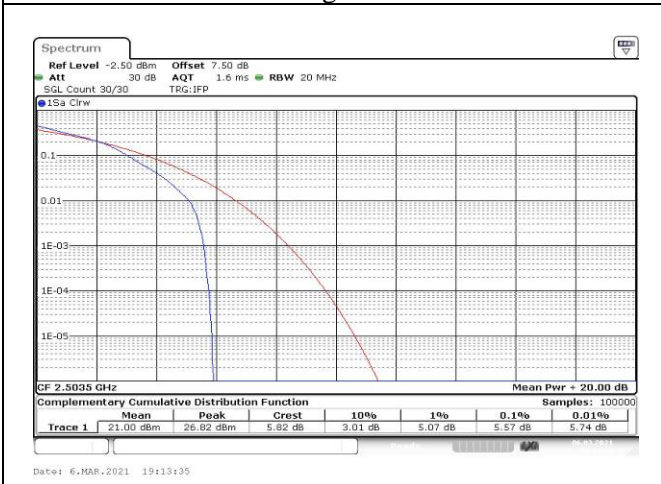


Fig.39

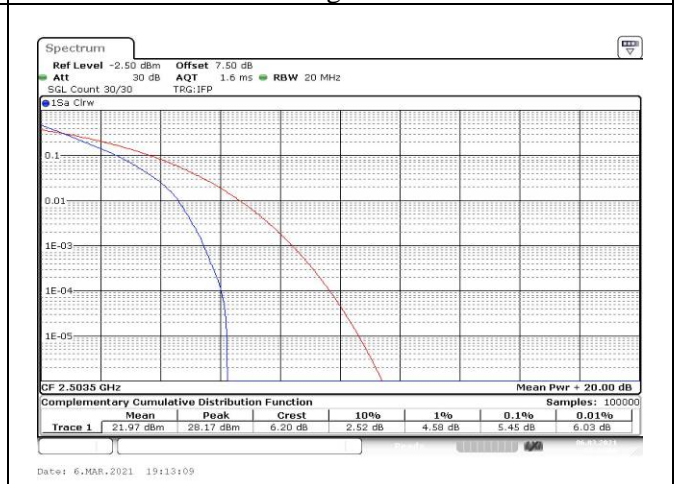


Fig.40

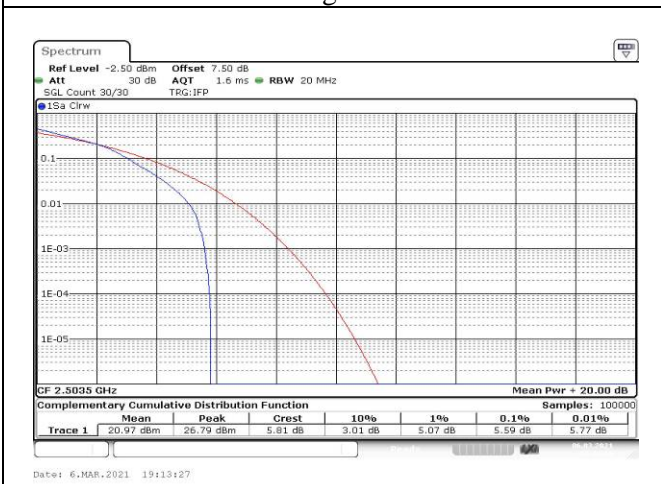


Fig.41

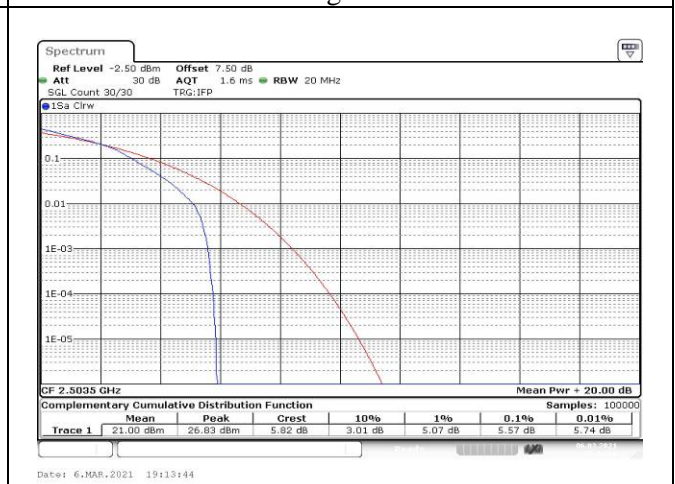


Fig.42

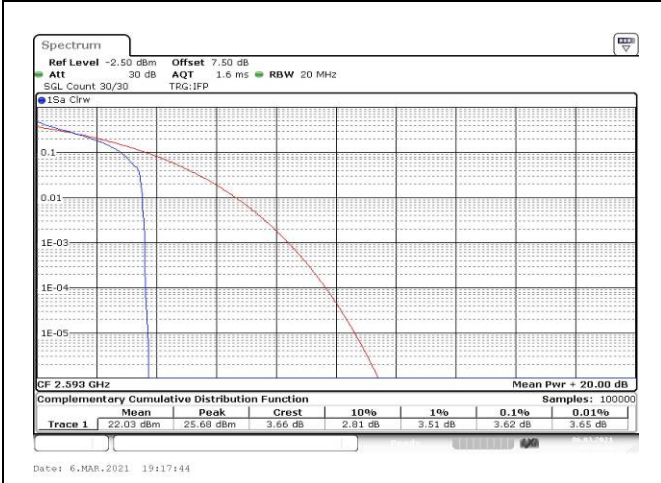


Fig.43

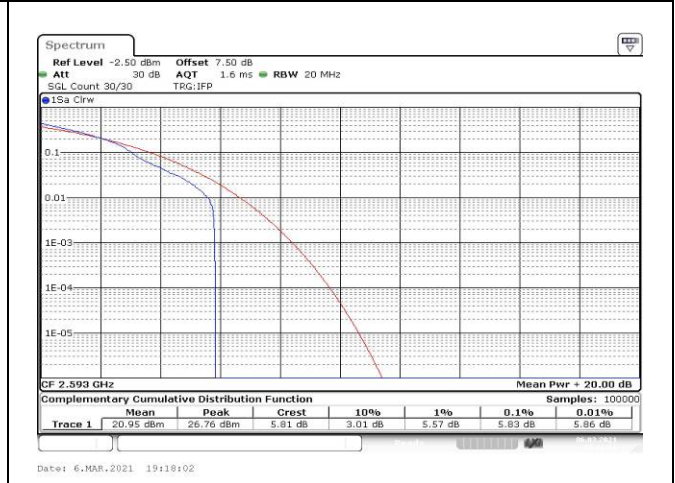


Fig.44

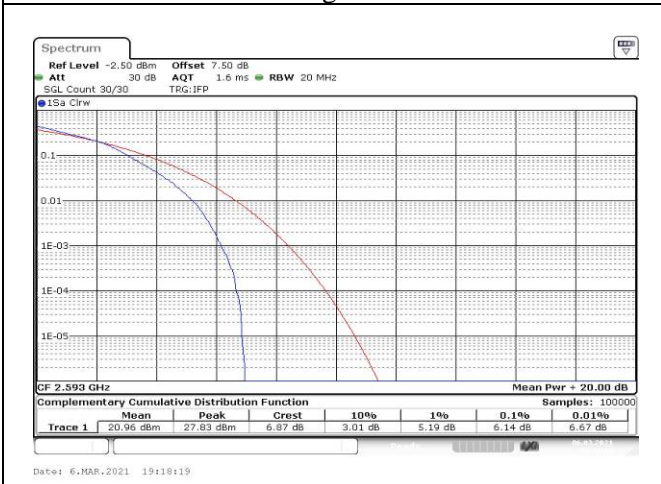


Fig.45

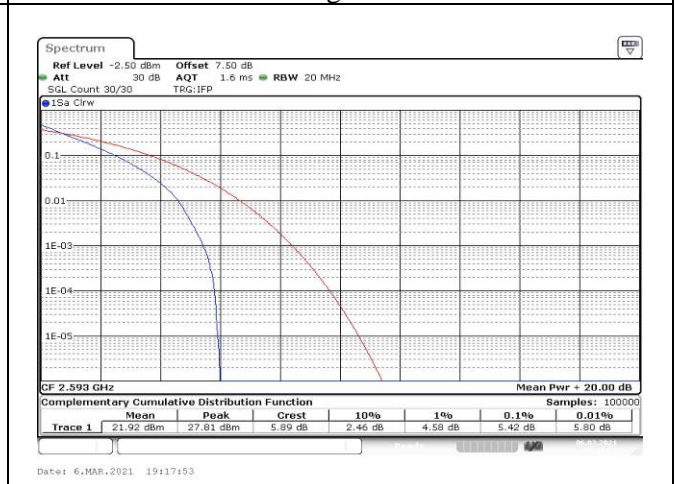


Fig.46

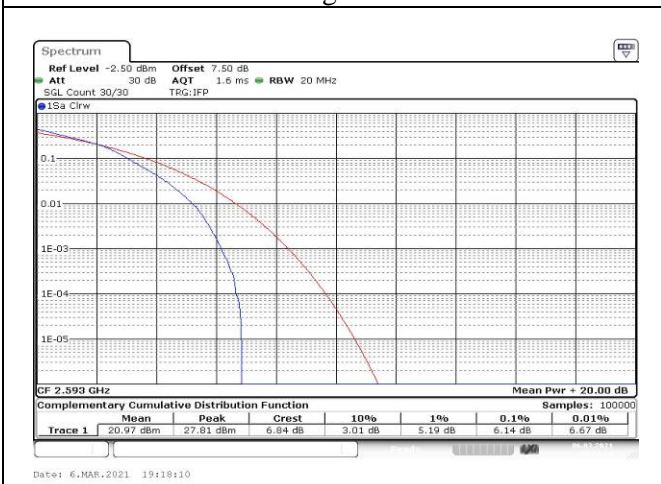


Fig.47

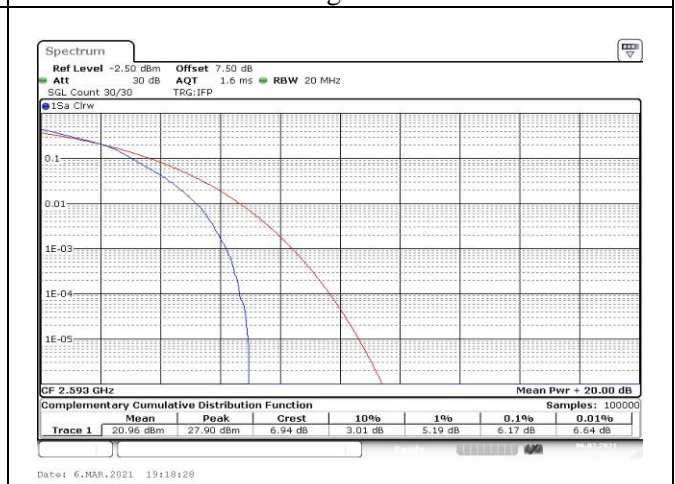


Fig.48

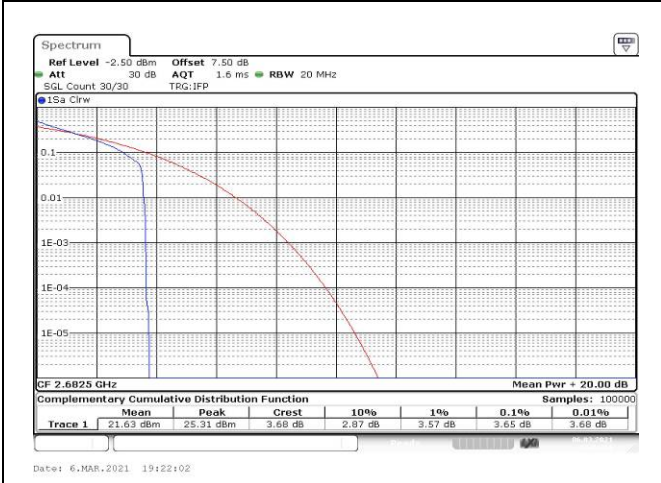


Fig.49



Fig.50

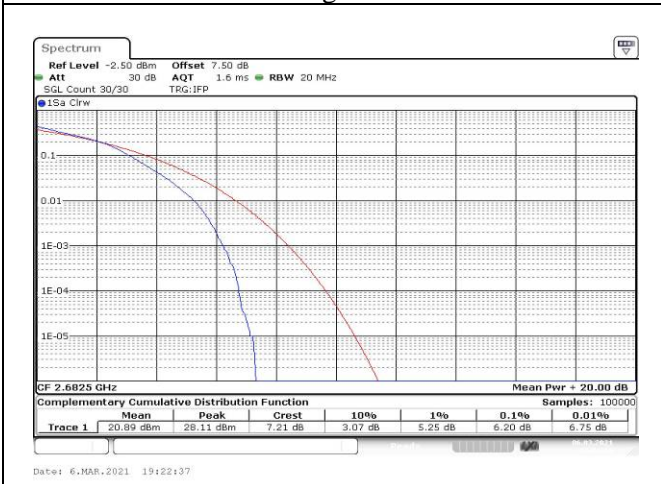


Fig.51

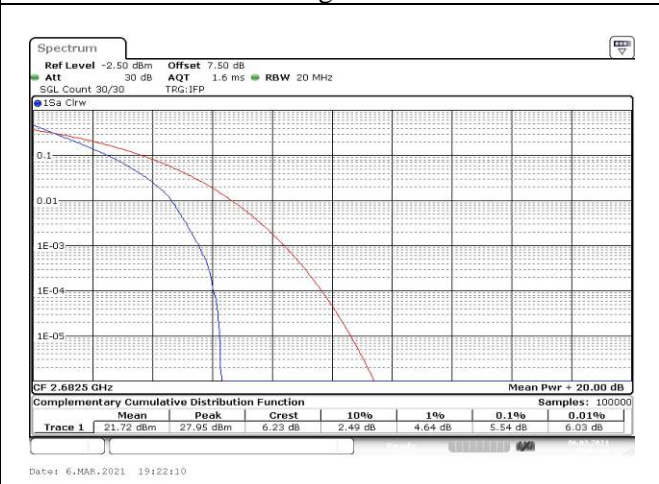


Fig.52

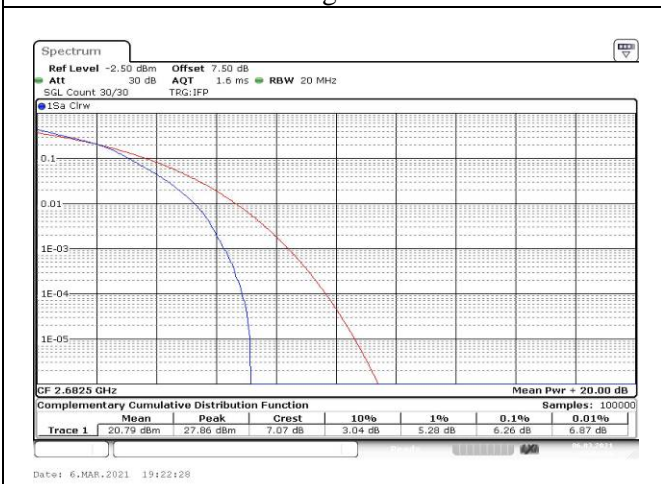


Fig.53

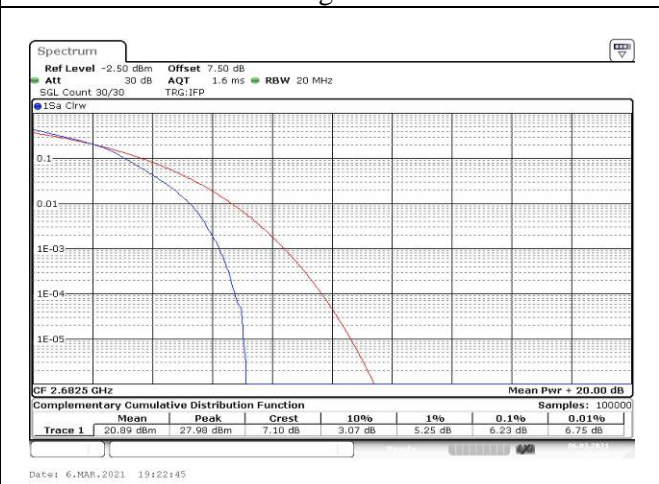


Fig.54

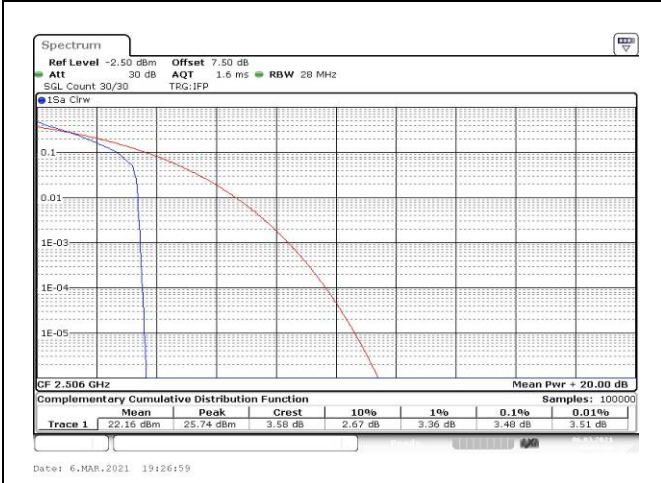


Fig.55

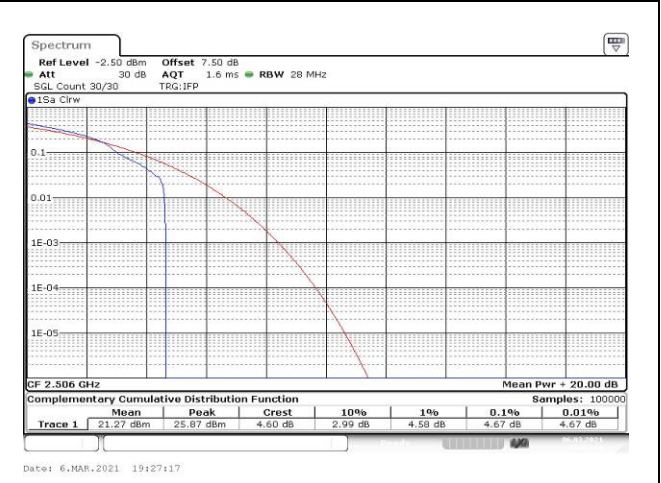


Fig.56

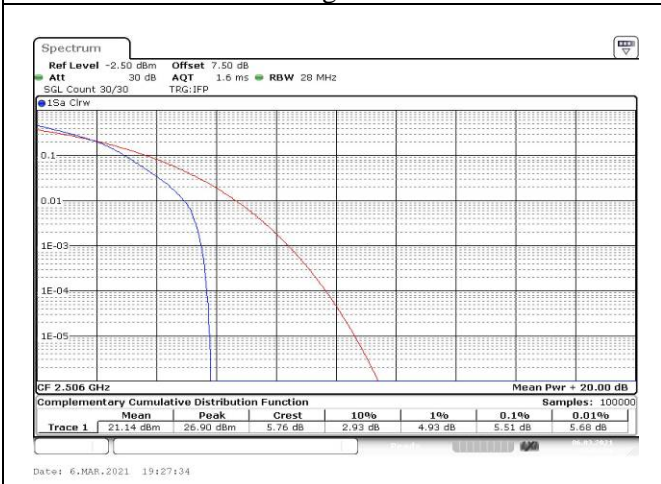


Fig.57

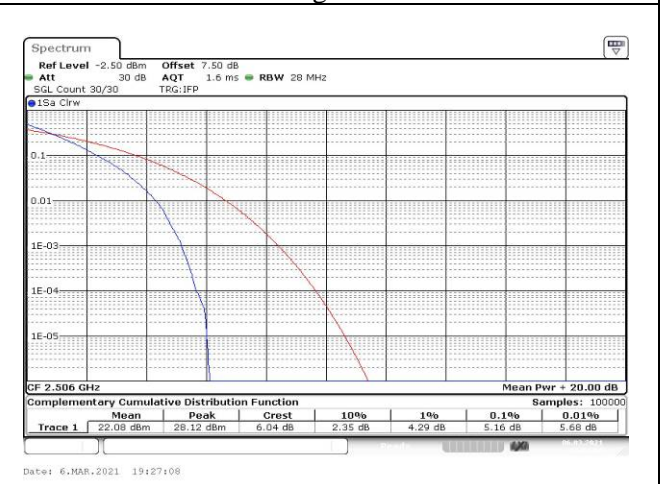


Fig.58

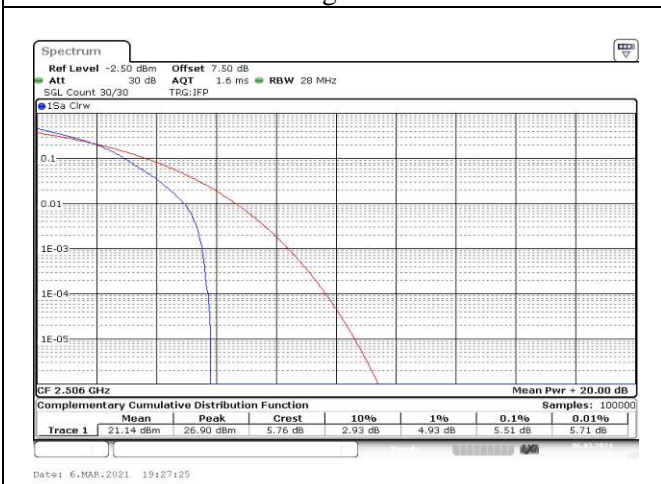


Fig.59

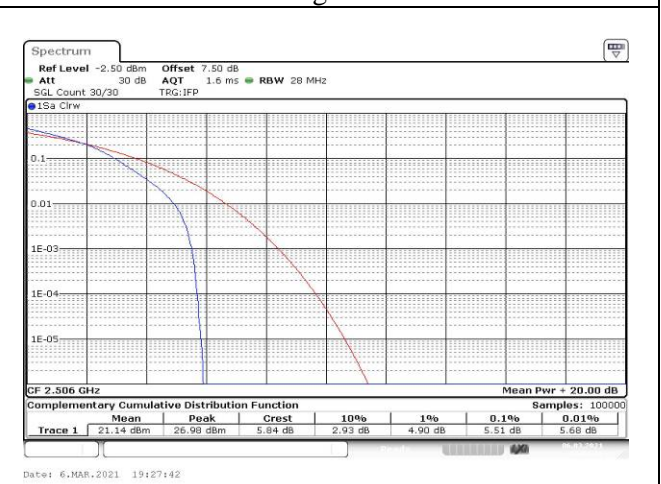


Fig.60

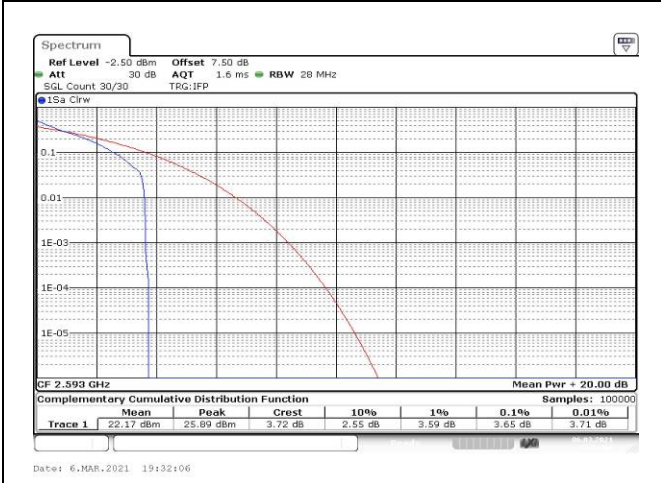


Fig.61

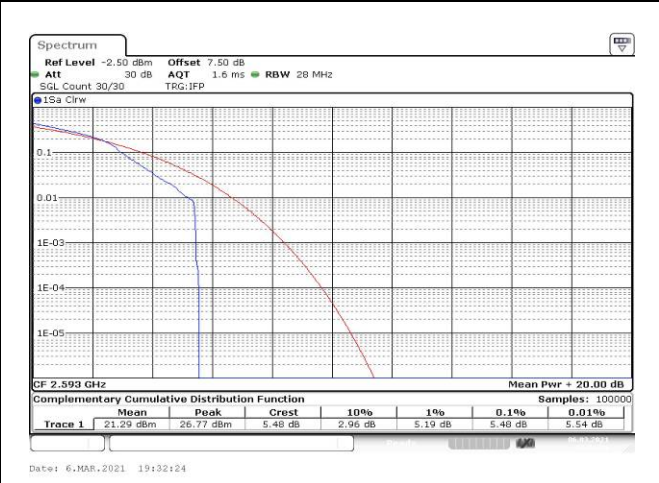


Fig.62

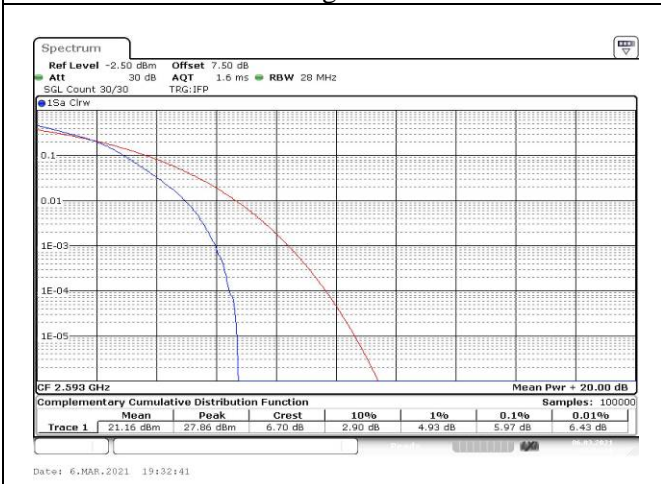


Fig.63

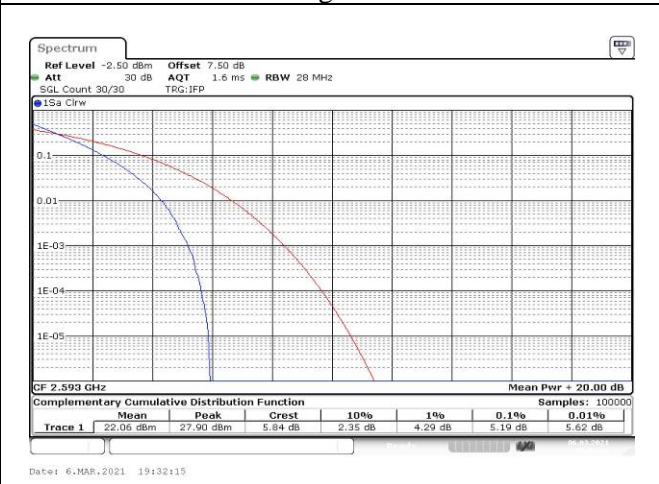


Fig.64

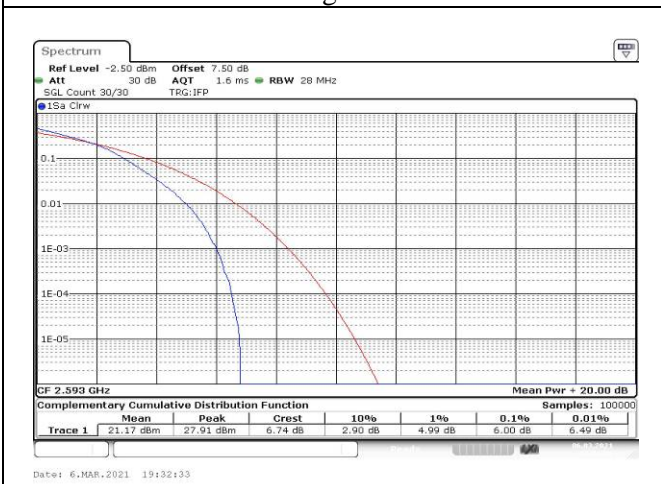


Fig.65

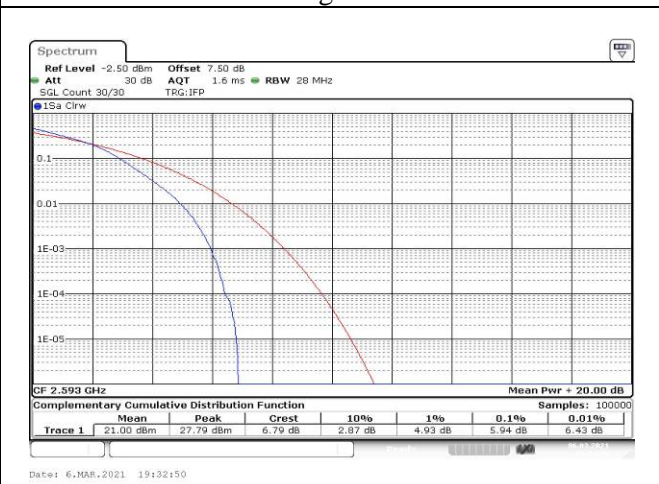


Fig.66

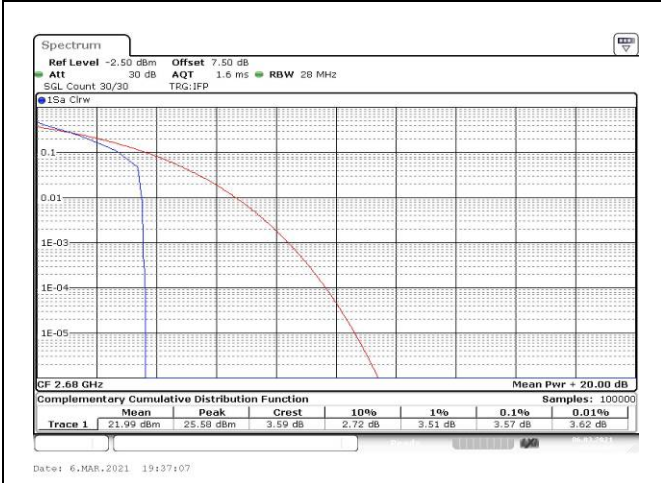


Fig.67

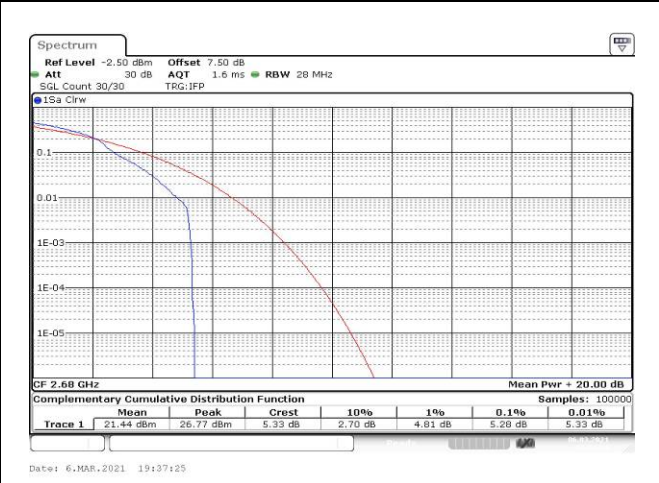


Fig.68

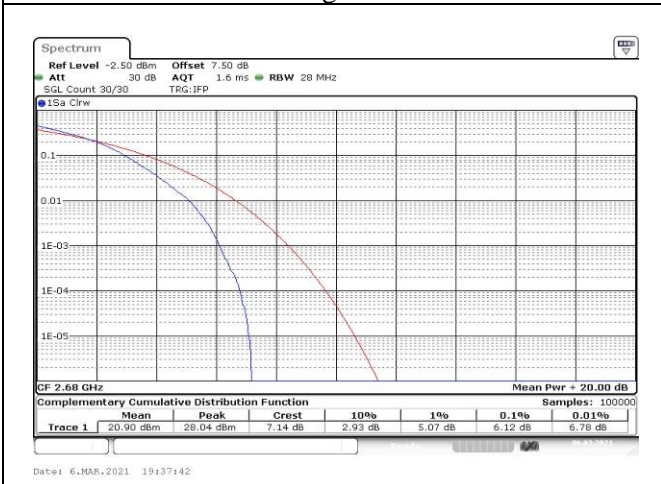


Fig.69

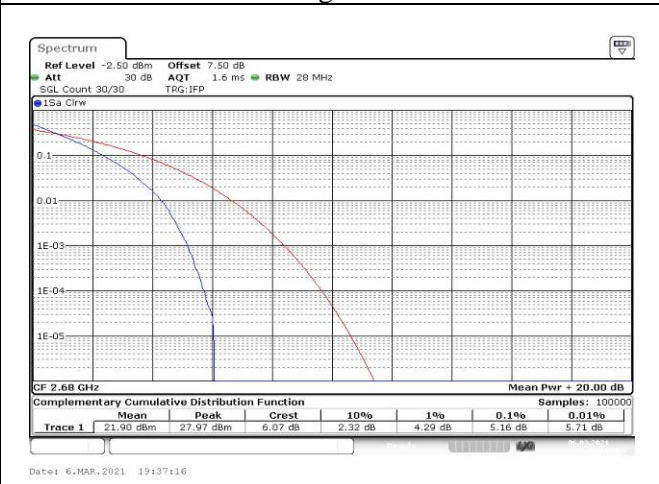


Fig.70



Fig.71

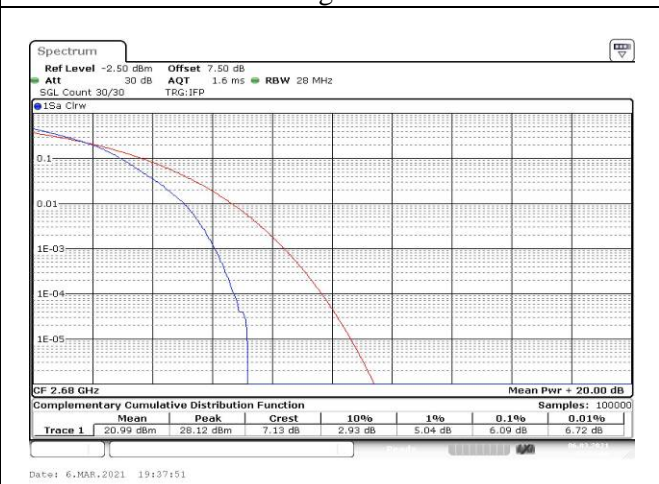


Fig.72

5 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
| | | | | | | QPSK |
| 41 | 2506 | 39750 | 20 | 1 | 0 | Fig.1 |
| | 2593 | 40620 | | 1 | 0 | Fig.2 |
| | 2680 | 41490 | | 1 | 0 | Fig.3 |

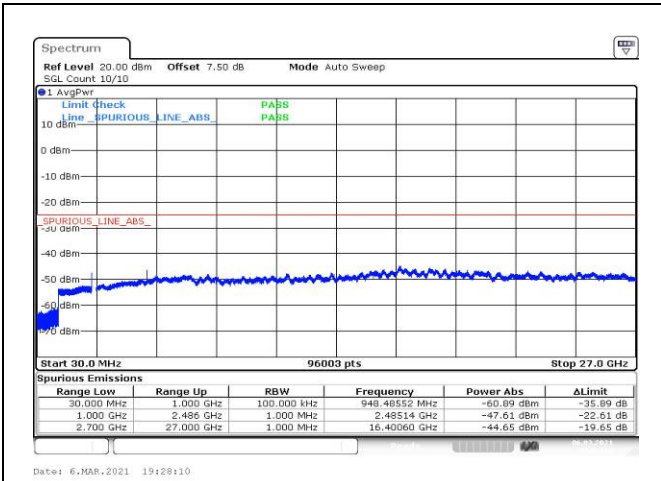


Fig.1

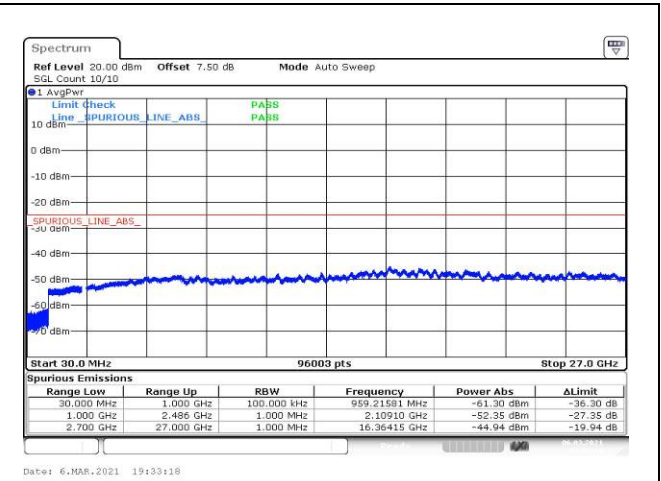


Fig.2

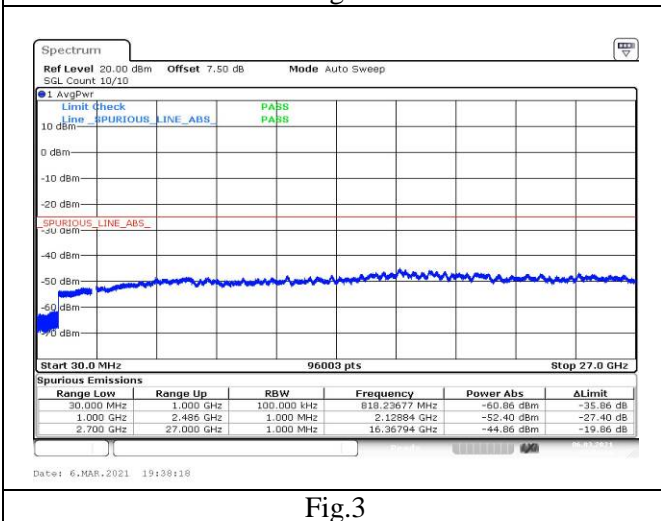


Fig.3

6 Band Edges Compliance

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot | | | |
|------|-------------------------|---------|--------|---------|-----------|-----------------|--------|--------|--------|
| | | | | | | QPSK | | | |
| 41 | 2498.5 | 39675 | 5 | 1 | 0 | Fig.1 | | | |
| | | | | 25 | 0 | Fig.2 | | | |
| | 2687.5 | 41565 | | 1 | 24 | Fig.3 | | | |
| | | | | 25 | 0 | Fig.4 | | | |
| | 2501 | 39700 | 10 | 1 | 0 | Fig.5 | | | |
| | | | | 50 | 0 | Fig.6 | | | |
| | | | | 2685 | 41540 | 1 | 49 | Fig.7 | |
| | | | | | | 50 | 0 | Fig.8 | |
| | 2503.5 | 39725 | | 15 | 1 | 0 | Fig.9 | | |
| | | | | | 75 | 0 | Fig.10 | | |
| | | | 2682.5 | | 41515 | 1 | 74 | Fig.11 | |
| | | | | | | 75 | 0 | Fig.12 | |
| | 2506 | 39750 | 20 | | 1 | 0 | Fig.13 | | |
| | | | | | 100 | 0 | Fig.14 | | |
| | | | | | 2680 | 41490 | 1 | 99 | Fig.15 |
| | | | | | | | 100 | 0 | Fig.16 |

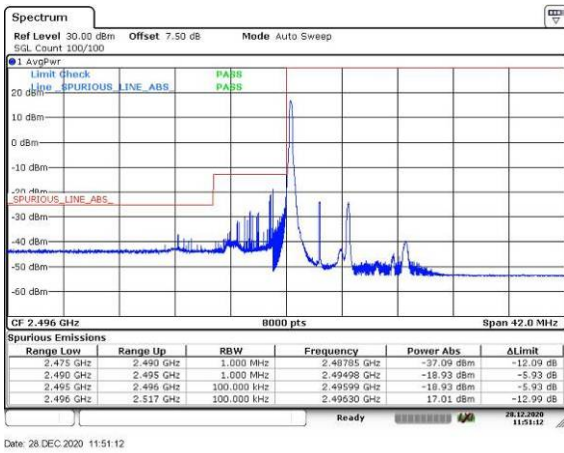


Fig.1

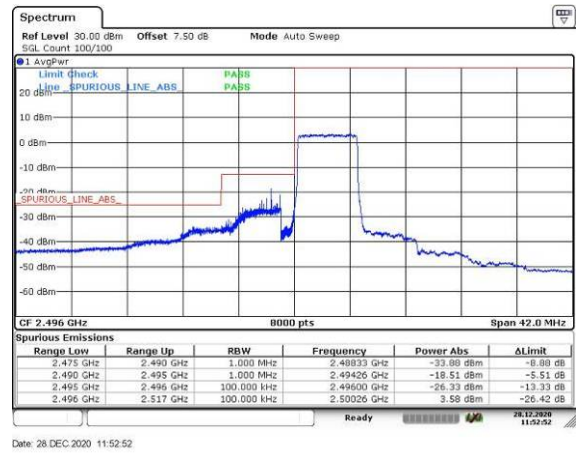


Fig.2

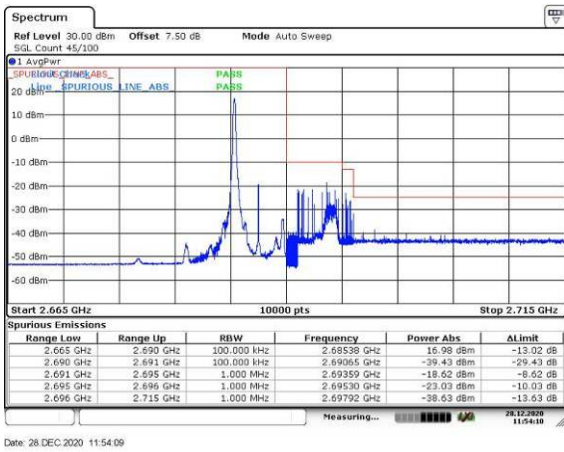


Fig.3

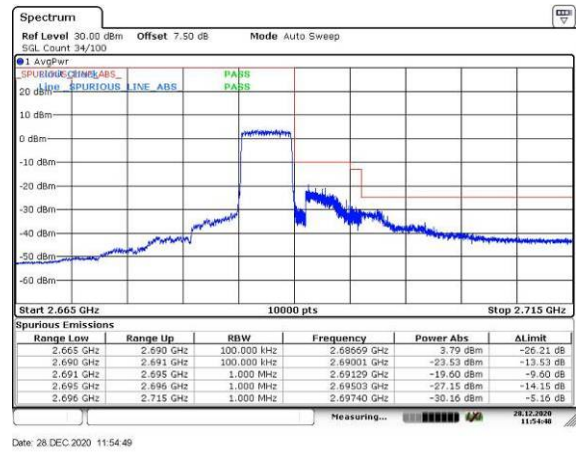


Fig.4

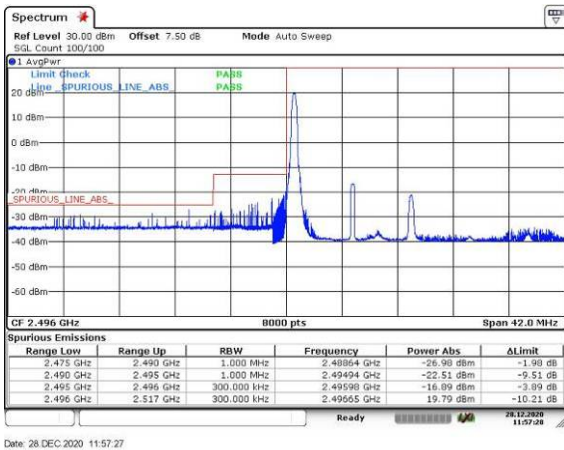


Fig.5

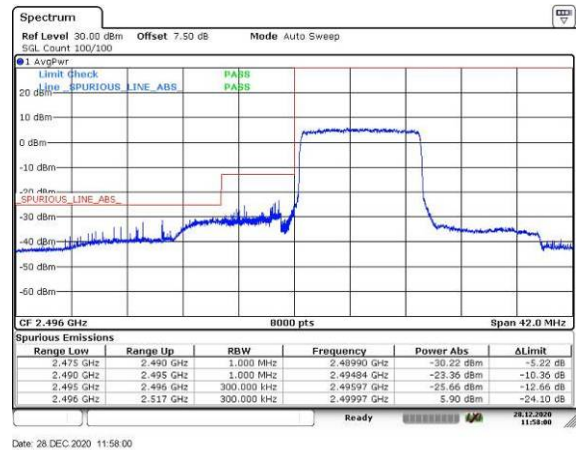


Fig.6

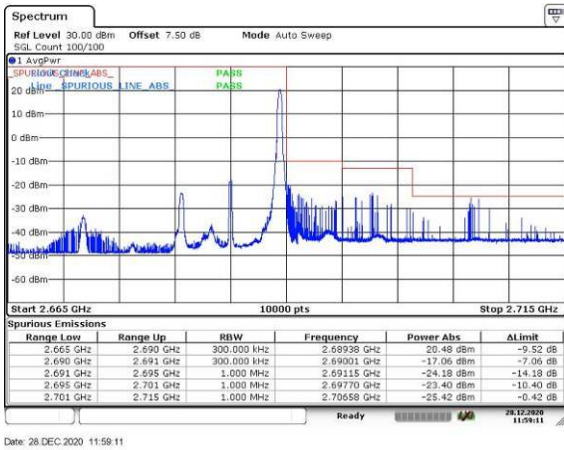


Fig.7

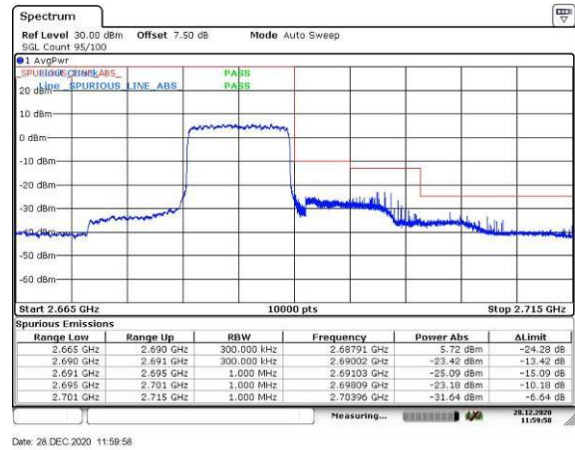


Fig.8

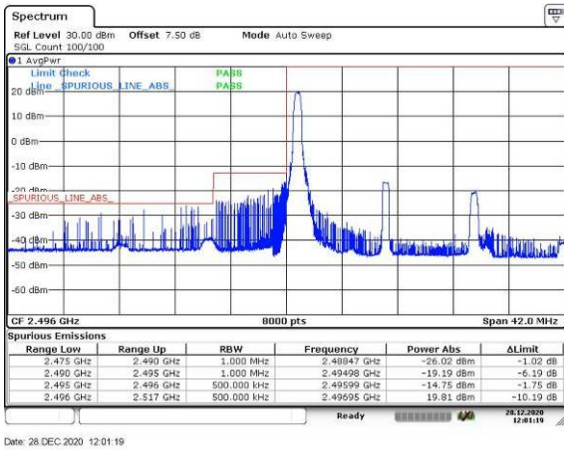


Fig.9

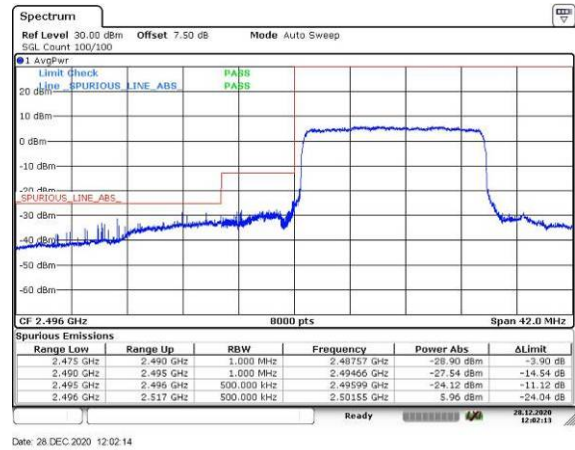


Fig.10

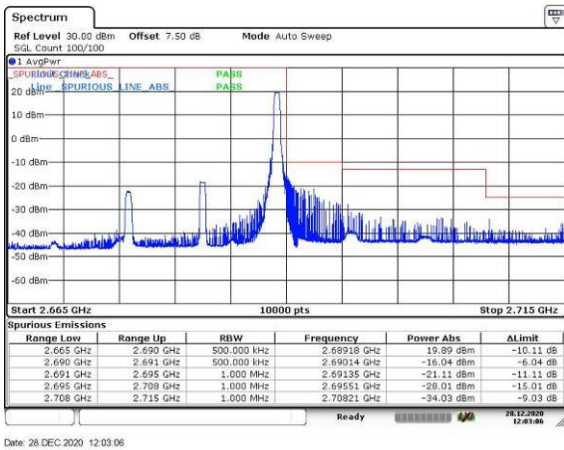


Fig.11

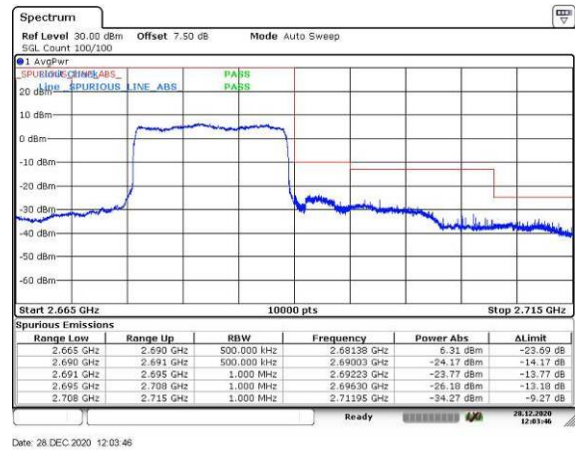


Fig.12

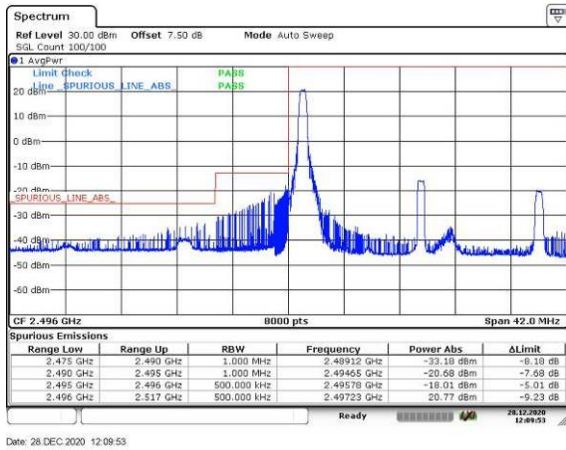


Fig.13

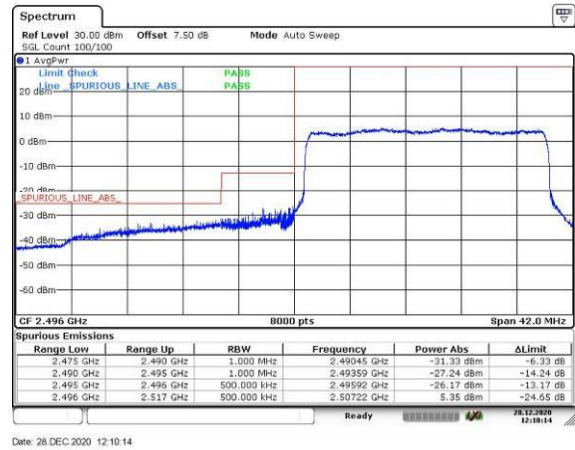


Fig.14

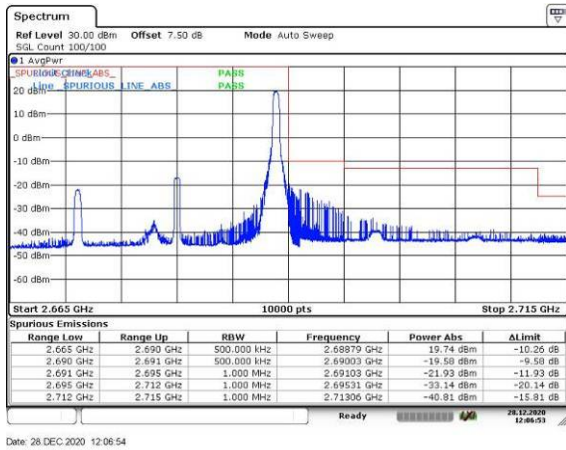


Fig.15

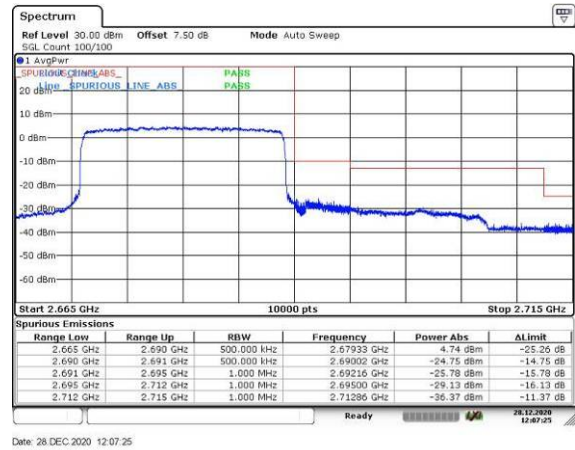


Fig.16

7 Frequency Stability

| Temperature(°C) | Voltage | Test Result (ppm) Band41 Low Channel QPSK | | | | | |
|-----------------|---------|---|-----|--------|--------|--------|--------|
| | | 1.4M | 3M | 5M | 10M | 15M | 20M |
| -10 | NV | --- | --- | 0.001 | -0.003 | 0.002 | 0.001 |
| 0 | NV | --- | --- | -0.003 | -0.004 | -0.004 | 0.001 |
| +10 | NV | --- | --- | -0.005 | 0.000 | -0.002 | -0.003 |
| +20 | NV | --- | --- | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | --- | --- | -0.001 | -0.001 | 0.001 | -0.006 |
| +40 | NV | --- | --- | 0.002 | 0.000 | 0.000 | -0.003 |
| +50 | NV | --- | --- | -0.005 | -0.004 | -0.002 | -0.001 |
| +55 | NV | --- | --- | -0.003 | 0.002 | 0.004 | 0.002 |
| +20 | LV | --- | --- | -0.003 | 0.000 | -0.004 | 0.001 |
| +20 | HV | --- | --- | -0.006 | -0.001 | -0.004 | -0.001 |

| Temperature(°C) | Voltage | Test Result (ppm) Band41 High Channel QPSK | | | | | |
|-----------------|---------|--|-----|--------|--------|--------|--------|
| | | 1.4M | 3M | 5M | 10M | 15M | 20M |
| -10 | NV | --- | --- | -0.010 | -0.004 | -0.006 | -0.004 |
| 0 | NV | --- | --- | -0.004 | -0.001 | -0.005 | -0.003 |
| +10 | NV | --- | --- | -0.010 | -0.004 | -0.006 | -0.004 |
| +20 | NV | --- | --- | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | --- | --- | 0.004 | 0.003 | -0.005 | -0.002 |
| +40 | NV | --- | --- | -0.006 | -0.004 | -0.002 | -0.004 |
| +50 | NV | --- | --- | -0.005 | -0.001 | -0.004 | -0.003 |
| +55 | NV | --- | --- | -0.007 | -0.003 | -0.006 | -0.002 |
| +20 | NV | --- | --- | -0.005 | -0.002 | -0.003 | -0.004 |
| +20 | LV | --- | --- | -0.006 | -0.003 | -0.002 | -0.004 |
| +20 | HV | --- | --- | -0.005 | -0.002 | 0.000 | -0.002 |

8 Effective Radiated Power and Effective Isotropic Radiated Power

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conduct ed power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) | | |
|------------|-------------------------|------------|--------|---------|-----------|------------------------|-----------------|---------------|-------|-------|
| QPSK | 2498.5 | 39675 | 5 | 1 | 0 | 25.01 | 26.51 | 0.448 | | |
| | | | | 1 | 12 | 25.09 | 26.59 | 0.456 | | |
| | | | | 1 | 24 | 25.08 | 26.58 | 0.455 | | |
| | | | | 12 | 0 | 24.11 | 25.61 | 0.364 | | |
| | | | | 12 | 7 | 24.10 | 25.60 | 0.363 | | |
| | | | | 12 | 13 | 24.09 | 25.59 | 0.362 | | |
| | 2593 | 40620 | | 25 | 0 | 24.12 | 25.62 | 0.365 | | |
| | | | | 1 | 0 | 24.99 | 26.49 | 0.446 | | |
| | | | | 1 | 12 | 25.06 | 26.56 | 0.453 | | |
| | | | | 1 | 24 | 25.09 | 26.59 | 0.456 | | |
| | | | | 12 | 0 | 24.11 | 25.61 | 0.364 | | |
| | | | | 12 | 7 | 24.17 | 25.67 | 0.369 | | |
| | | | | 12 | 13 | 24.16 | 25.66 | 0.368 | | |
| | | | | 25 | 0 | 24.11 | 25.61 | 0.364 | | |
| | | | | 2687.5 | 41565 | 1 | 0 | 24.66 | 26.16 | 0.413 |
| | | | | | | 1 | 12 | 24.66 | 26.16 | 0.413 |
| | | | | | | 1 | 24 | 24.65 | 26.15 | 0.412 |
| | | | | | | 12 | 0 | 23.72 | 25.22 | 0.333 |
| | 12 | 7 | | | | 23.74 | 25.24 | 0.334 | | |
| | 12 | 13 | | | | 23.73 | 25.23 | 0.333 | | |
| | 16QAM | 2498.5 | | 39675 | 25 | 0 | 23.76 | 25.26 | 0.336 | |
| | | | | | 1 | 0 | 24.54 | 26.04 | 0.402 | |
| | | | | | 1 | 12 | 24.56 | 26.06 | 0.404 | |
| | | | | | 1 | 24 | 24.53 | 26.03 | 0.401 | |
| 12 | | | 0 | | 23.04 | 24.54 | 0.284 | | | |
| 12 | | | 7 | | 23.06 | 24.56 | 0.286 | | | |
| 2593 | | 40620 | 12 | 13 | 23.06 | 24.56 | 0.286 | | | |
| | | | 25 | 0 | 23.14 | 24.64 | 0.291 | | | |
| | | | 1 | 0 | 24.28 | 25.78 | 0.378 | | | |
| | | | 1 | 12 | 24.34 | 25.84 | 0.384 | | | |
| | | | 1 | 24 | 24.31 | 25.81 | 0.381 | | | |
| | | | 12 | 0 | 23.11 | 24.61 | 0.289 | | | |
| | | | 12 | 7 | 23.13 | 24.63 | 0.290 | | | |
| | | | 12 | 13 | 23.20 | 24.70 | 0.295 | | | |
| | | | 25 | 0 | 23.13 | 24.63 | 0.290 | | | |
| | | | 2687.5 | 41565 | 1 | 0 | 24.14 | 25.64 | 0.366 | |
| | | | | | 1 | 12 | 24.06 | 25.56 | 0.360 | |
| | | | | | 1 | 24 | 24.09 | 25.59 | 0.362 | |
| 12 | | 0 | | | 22.82 | 24.32 | 0.270 | | | |
| 12 | | 7 | | | 22.76 | 24.26 | 0.267 | | | |
| 12 | | 13 | | | 22.76 | 24.26 | 0.267 | | | |
| 25 | | 0 | 22.77 | 24.27 | 0.267 | | | | | |