## 01 Conducted output power

| Band | Channel | Frequency (MHz) | Power (dBm) | high Limit (dBm) | Verdict |
|---|---|---|---|---|---|
| HSDPA Band2 Subtest1 | 9262 | 1852.4 | 19.79 | 37 | PASS |
| HSDPA Band2 Subtest2 | 9262 | 1852.4 | 19.42 | 37 | PASS |
| HSDPA Band2 Subtest3 | 9262 | 1852.4 | 19.15 | 37 | PASS |
| HSDPA Band2 Subtest4 | 9262 | 1852.4 | 18.87 | 37 | PASS |
| HSDPA Band2 Subtest1 | 9400 | 1880 | 19.90 | 37 | PASS |
| HSDPA Band2 Subtest2 | 9400 | 1880 | 19.57 | 37 | PASS |
| HSDPA Band2 Subtest3 | 9400 | 1880 | 19.46 | 37 | PASS |
| HSDPA Band2 Subtest4 | 9400 | 1880 | 19.38 | 37 | PASS |
| HSDPA Band2 Subtest1 | 9538 | 1907.6 | 20.44 | 37 | PASS |
| HSDPA Band2 Subtest2 | 9538 | 1907.6 | 20.13 | 37 | PASS |
| HSDPA Band2 Subtest3 | 9538 | 1907.6 | 20.03 | 37 | PASS |
| HSDPA Band2 Subtest4 | 9538 | 1907.6 | 19.76 | 37 | PASS |
| HSUPA Band2 Subtest1 | 9262 | 1852.4 | 19.53 | 37 | PASS |
| HSUPA Band2 Subtest2 | 9262 | 1852.4 | 19.59 | 37 | PASS |
| HSUPA Band2 Subtest3 | 9262 | 1852.4 | 19.58 | 37 | PASS |
| HSUPA Band2 Subtest4 | 9262 | 1852.4 | 19.59 | 37 | PASS |
| HSUPA Band2 Subtest5 | 9262 | 1852.4 | 19.35 | 37 | PASS |
| HSUPA Band2 Subtest1 | 9400 | 1880 | 19.57 | 37 | PASS |
| HSUPA Band2 Subtest2 | 9400 | 1880 | 19.81 | 37 | PASS |
| HSUPA Band2 Subtest3 | 9400 | 1880 | 19.84 | 37 | PASS |
| HSUPA Band2 Subtest4 | 9400 | 1880 | 19.82 | 37 | PASS |
| HSUPA Band2 Subtest5 | 9400 | 1880 | 19.59 | 37 | PASS |
| HSUPA Band2 Subtest1 | 9538 | 1907.6 | 20.39 | 37 | PASS |
| HSUPA Band2 Subtest2 | 9538 | 1907.6 | 20.42 | 37 | PASS |
| HSUPA Band2 Subtest3 | 9538 | 1907.6 | 19.90 | 37 | PASS |
| HSUPA Band2 Subtest4 | 9538 | 1907.6 | 20.42 | 37 | PASS |
| HSUPA Band2 Subtest5 | 9538 | 1907.6 | 20.30 | 37 | PASS |
| WCDMA Band2 | 9262 | 1852.4 | 23.19 | 37 | PASS |
| WCDMA Band2 | 9400 | 1880 | 23.19 | 37 | PASS |
| WCDMA Band2 | 9538 | 1907.6 | 23.12 | 37 | PASS |
| HSDPA Band4 Subtest1 | 1312 | 1712.4 | 19.91 | 37 | PASS |
| HSDPA Band4 Subtest2 | 1312 | 1712.4 | 19.43 | 37 | PASS |
| HSDPA Band4 Subtest3 | 1312 | 1712.4 | 19.23 | 37 | PASS |
| HSDPA Band4 Subtest4 | 1312 | 1712.4 | 19.17 | 37 | PASS |
| HSDPA Band4 Subtest1 | 1413 | 1732.6 | 18.75 | 37 | PASS |
| HSDPA Band4 Subtest2 | 1413 | 1732.6 | 18.39 | 37 | PASS |
| HSDPA Band4 Subtest3 | 1413 | 1732.6 | 18.03 | 37 | PASS |
| HSDPA Band4 Subtest4 | 1413 | 1732.6 | 18.16 | 37 | PASS |
| HSDPA Band4 Subtest1 | 1513 | 1752.6 | 19.49 | 37 | PASS |
| HSDPA Band4 Subtest2 | 1513 | 1752.6 | 19.26 | 37 | PASS |
| HSDPA Band4 Subtest3 | 1513 | 1752.6 | 18.86 | 37 | PASS |

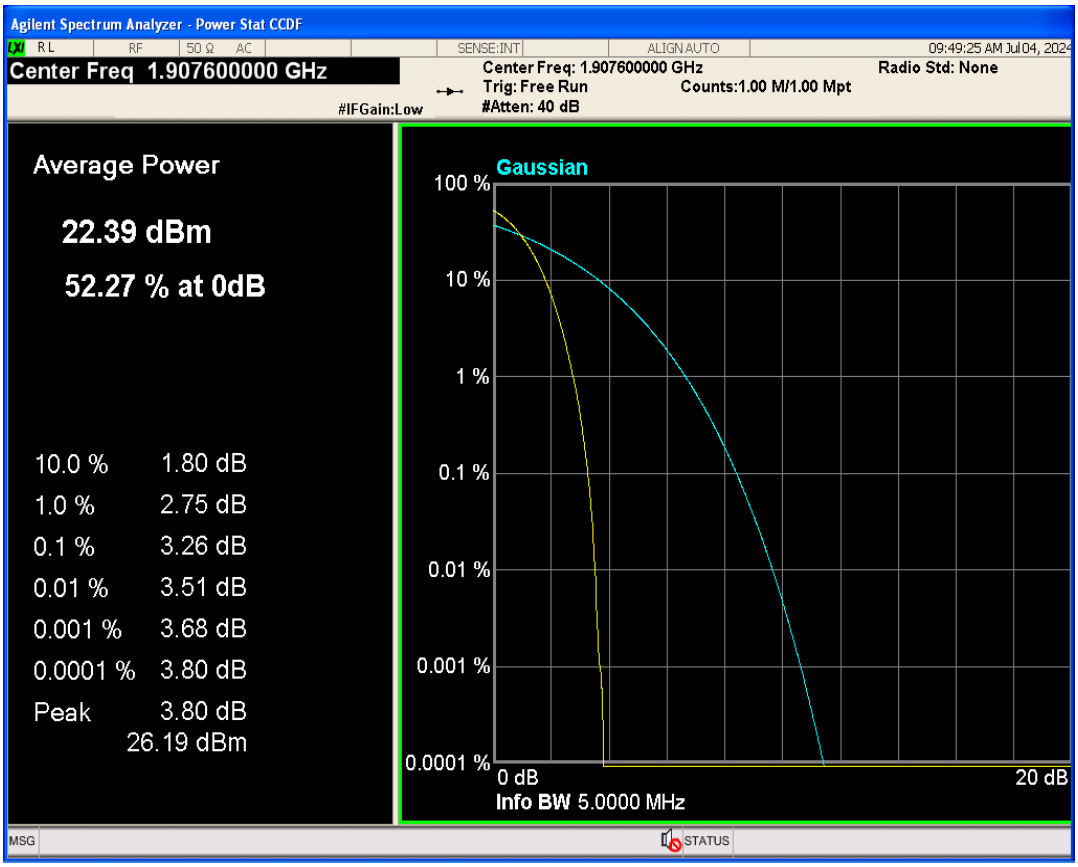
| | | | | | |
|---|---|---|---|---|---|
| HSDPA Band4 Subtest4 | 1513 | 1752.6 | 18.83 | 37 | PASS |
| HSUPA Band4 Subtest1 | 1312 | 1712.4 | 19.96 | 37 | PASS |
| HSUPA Band4 Subtest2 | 1312 | 1712.4 | 19.73 | 37 | PASS |
| HSUPA Band4 Subtest3 | 1312 | 1712.4 | 19.91 | 37 | PASS |
| HSUPA Band4 Subtest4 | 1312 | 1712.4 | 19.74 | 37 | PASS |
| HSUPA Band4 Subtest5 | 1312 | 1712.4 | 19.55 | 37 | PASS |
| HSUPA Band4 Subtest1 | 1413 | 1732.6 | 18.42 | 37 | PASS |
| HSUPA Band4 Subtest2 | 1413 | 1732.6 | 18.78 | 37 | PASS |
| HSUPA Band4 Subtest3 | 1413 | 1732.6 | 18.50 | 37 | PASS |
| HSUPA Band4 Subtest4 | 1413 | 1732.6 | 18.75 | 37 | PASS |
| HSUPA Band4 Subtest5 | 1413 | 1732.6 | 18.74 | 37 | PASS |
| HSUPA Band4 Subtest1 | 1513 | 1752.6 | 19.24 | 37 | PASS |
| HSUPA Band4 Subtest2 | 1513 | 1752.6 | 19.46 | 37 | PASS |
| HSUPA Band4 Subtest3 | 1513 | 1752.6 | 18.83 | 37 | PASS |
| HSUPA Band4 Subtest4 | 1513 | 1752.6 | 19.49 | 37 | PASS |
| HSUPA Band4 Subtest5 | 1513 | 1752.6 | 19.37 | 37 | PASS |
| WCDMA Band4 | 1312 | 1712.4 | 23.65 | 37 | PASS |
| WCDMA Band4 | 1413 | 1732.6 | 23.70 | 37 | PASS |
| WCDMA Band4 | 1513 | 1752.6 | 23.58 | 37 | PASS |
| HSDPA Band5 Subtest1 | 4132 | 826.4 | 22.88 | 37 | PASS |
| HSDPA Band5 Subtest2 | 4132 | 826.4 | 22.46 | 37 | PASS |
| HSDPA Band5 Subtest3 | 4132 | 826.4 | 22.15 | 37 | PASS |
| HSDPA Band5 Subtest4 | 4132 | 826.4 | 22.03 | 37 | PASS |
| HSDPA Band5 Subtest1 | 4182 | 836.4 | 22.26 | 37 | PASS |
| HSDPA Band5 Subtest2 | 4182 | 836.4 | 22.14 | 37 | PASS |
| HSDPA Band5 Subtest3 | 4182 | 836.4 | 21.44 | 37 | PASS |
| HSDPA Band5 Subtest4 | 4182 | 836.4 | 21.62 | 37 | PASS |
| HSDPA Band5 Subtest1 | 4233 | 846.6 | 22.35 | 37 | PASS |
| HSDPA Band5 Subtest2 | 4233 | 846.6 | 22.16 | 37 | PASS |
| HSDPA Band5 Subtest3 | 4233 | 846.6 | 21.96 | 37 | PASS |
| HSDPA Band5 Subtest4 | 4233 | 846.6 | 21.80 | 37 | PASS |
| HSUPA Band5 Subtest1 | 4132 | 826.4 | 22.78 | 37 | PASS |
| HSUPA Band5 Subtest2 | 4132 | 826.4 | 22.85 | 37 | PASS |
| HSUPA Band5 Subtest3 | 4132 | 826.4 | 22.34 | 37 | PASS |
| HSUPA Band5 Subtest4 | 4132 | 826.4 | 22.79 | 37 | PASS |
| HSUPA Band5 Subtest5 | 4132 | 826.4 | 22.58 | 37 | PASS |
| HSUPA Band5 Subtest1 | 4182 | 836.4 | 22.10 | 37 | PASS |
| HSUPA Band5 Subtest2 | 4182 | 836.4 | 22.25 | 37 | PASS |
| HSUPA Band5 Subtest3 | 4182 | 836.4 | 21.89 | 37 | PASS |
| HSUPA Band5 Subtest4 | 4182 | 836.4 | 22.25 | 37 | PASS |
| HSUPA Band5 Subtest5 | 4182 | 836.4 | 22.24 | 37 | PASS |
| HSUPA Band5 Subtest1 | 4233 | 846.6 | 21.99 | 37 | PASS |
| HSUPA Band5 Subtest2 | 4233 | 846.6 | 22.34 | 37 | PASS |
| HSUPA Band5 Subtest3 | 4233 | 846.6 | 22.12 | 37 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| HSUPA Band5 Subtest4 | 4233 | 846.6 | 22.34 | 37 | PASS |
| HSUPA Band5 Subtest5 | 4233 | 846.6 | 22.07 | 37 | PASS |
| WCDMA Band5 | 4132 | 826.4 | 22.89 | 37 | PASS |
| WCDMA Band5 | 4182 | 836.4 | 22.90 | 37 | PASS |
| WCDMA Band5 | 4233 | 846.6 | 22.99 | 37 | PASS |

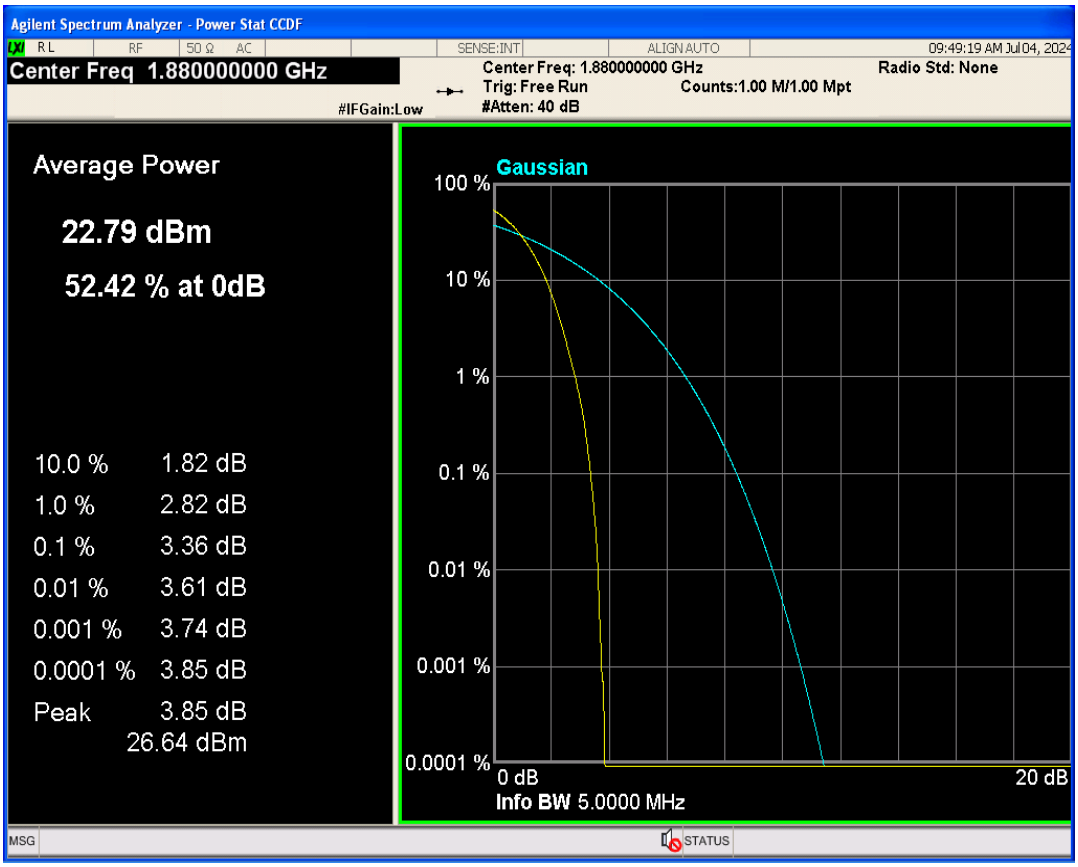
### 03 Peak-to-Average Ratio

| Band | Channel | Frequency (MHz) | Result (dB) | high Limit (dB) | Verdict |
|---|---|---|---|---|---|
| WCDMA Band2 | 9262 | 1852.4 | 3.49 | 13 | PASS |
| WCDMA Band2 | 9400 | 1880 | 3.36 | 13 | PASS |
| WCDMA Band2 | 9538 | 1907.6 | 3.26 | 13 | PASS |
| WCDMA Band4 | 1312 | 1712.4 | 3.42 | 13 | PASS |
| WCDMA Band4 | 1413 | 1732.6 | 3.52 | 13 | PASS |
| WCDMA Band4 | 1513 | 1752.6 | 3.20 | 13 | PASS |
| WCDMA Band5 | 4132 | 826.4 | 2.52 | 13 | PASS |
| WCDMA Band5 | 4182 | 836.4 | 3.08 | 13 | PASS |
| WCDMA Band5 | 4233 | 846.6 | 3.03 | 13 | PASS |

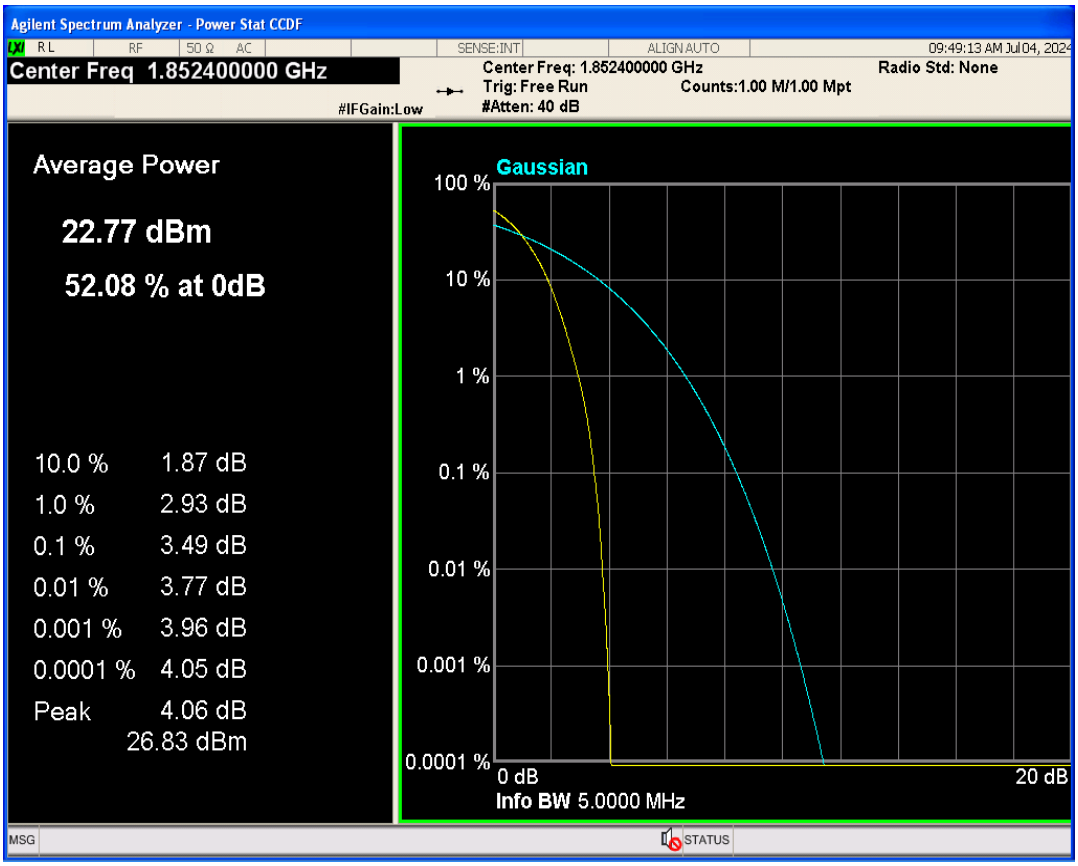
WCDMA Band2 Channel=9538



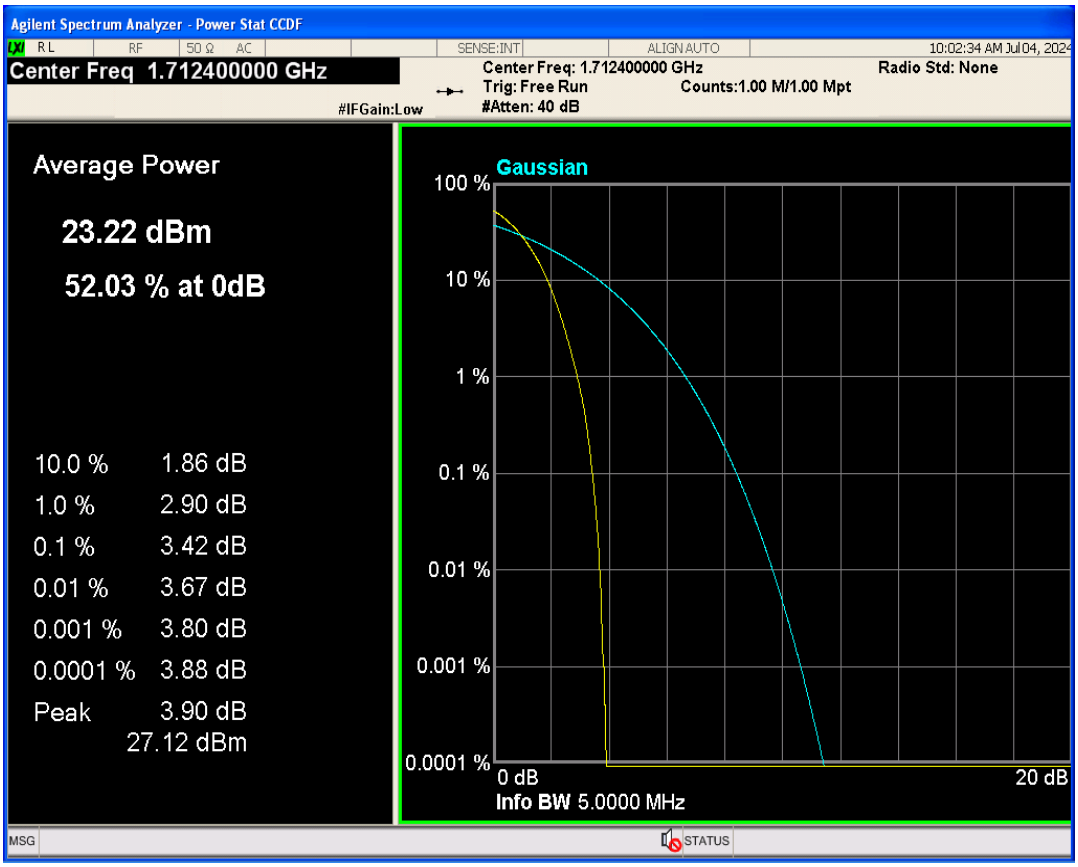

WCDMA Band2 Channel=9400



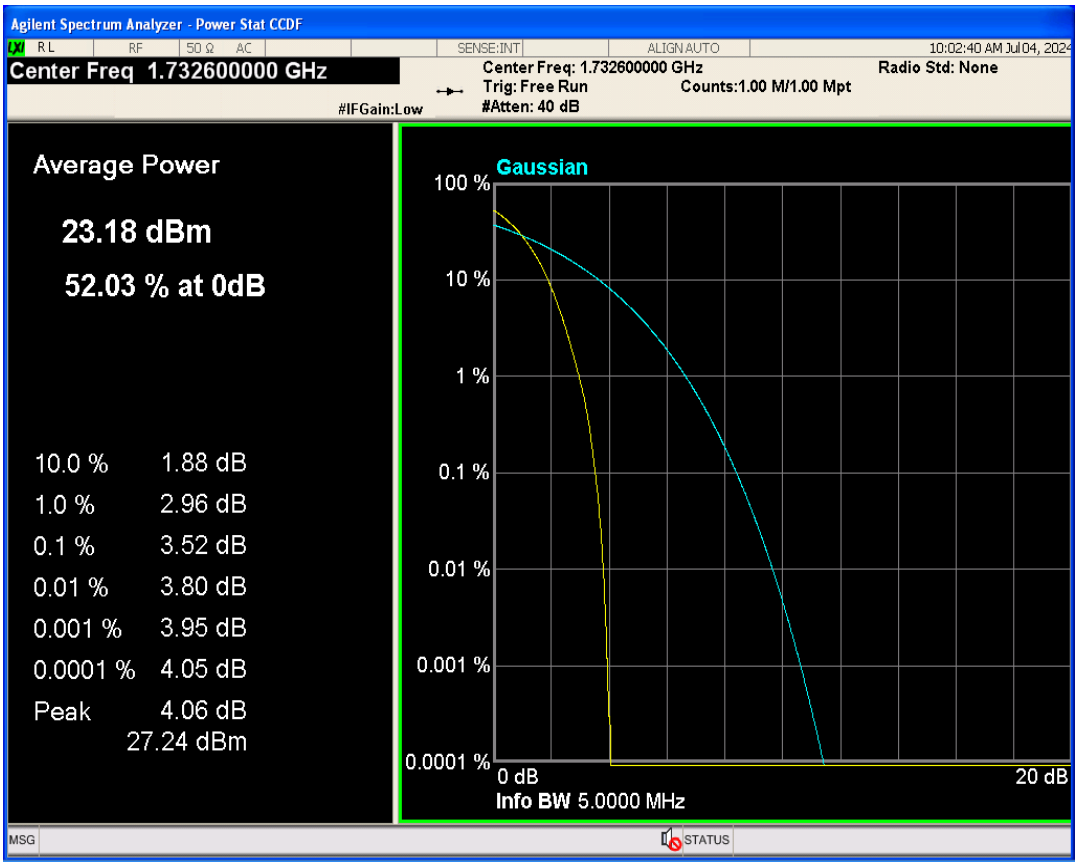

WCDMA Band2 Channel=9262



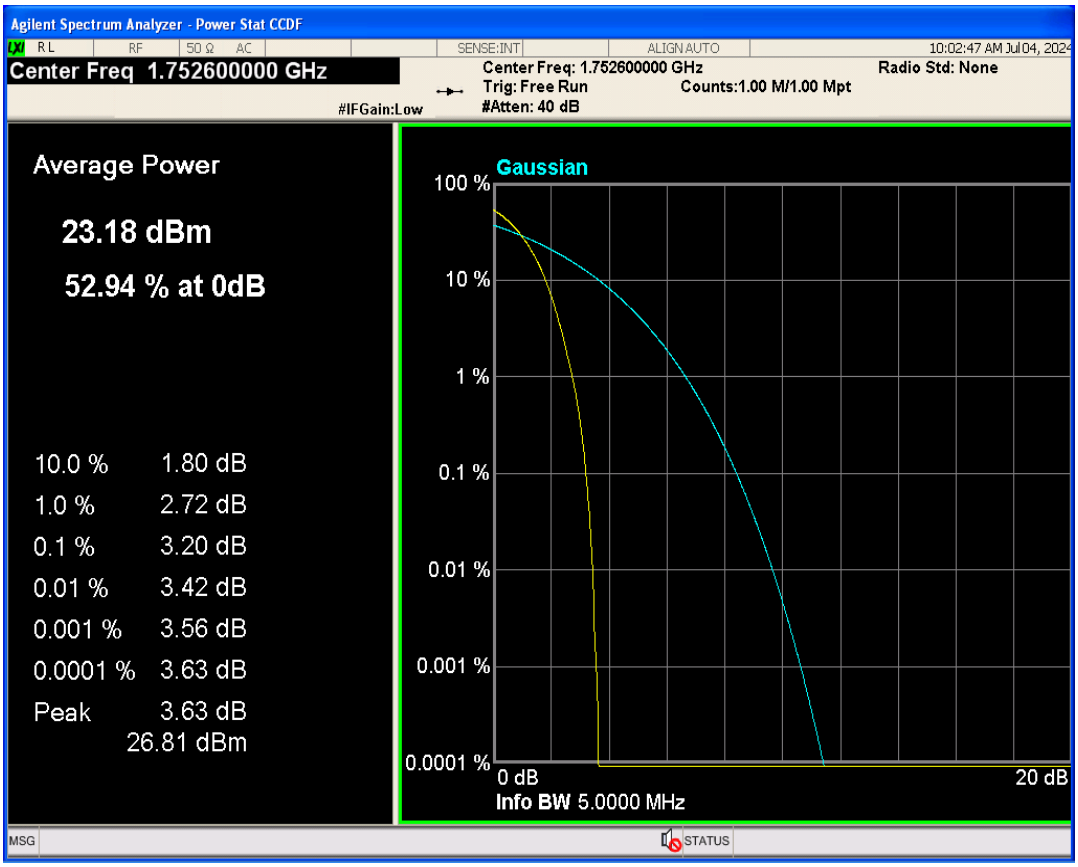

WCDMA Band4 Channel=1312



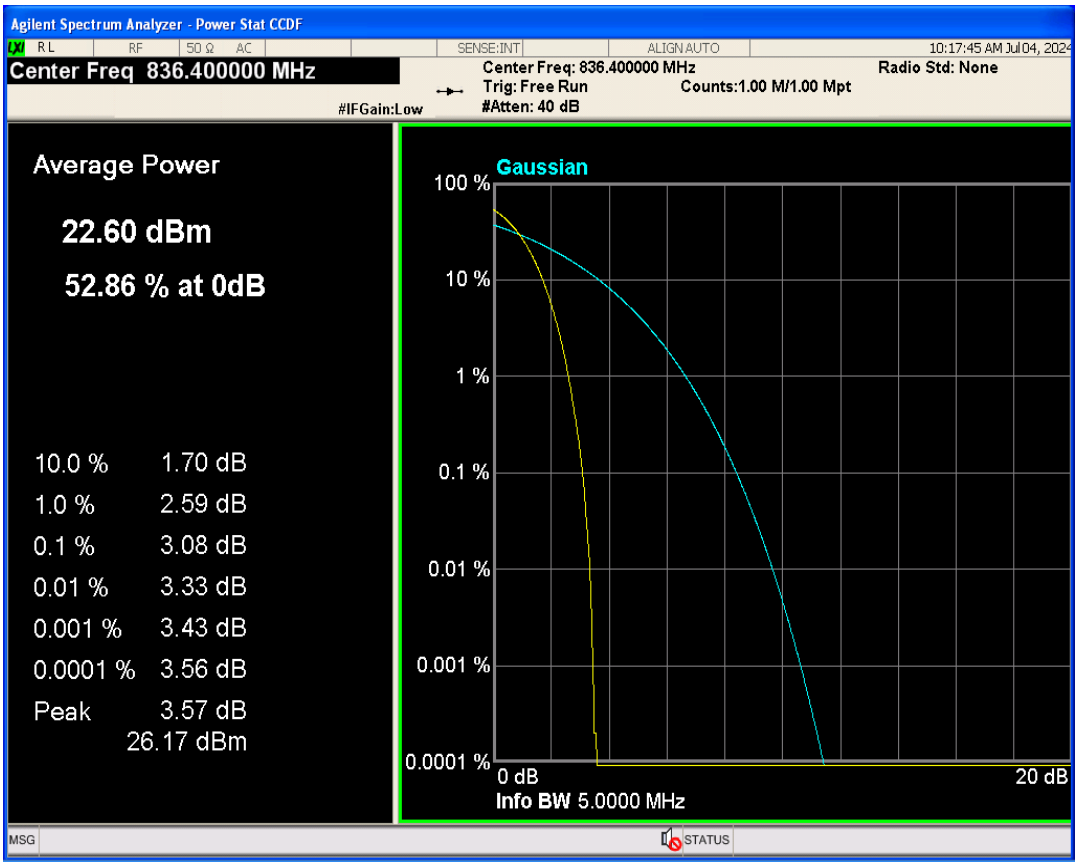

WCDMA Band4 Channel=1413



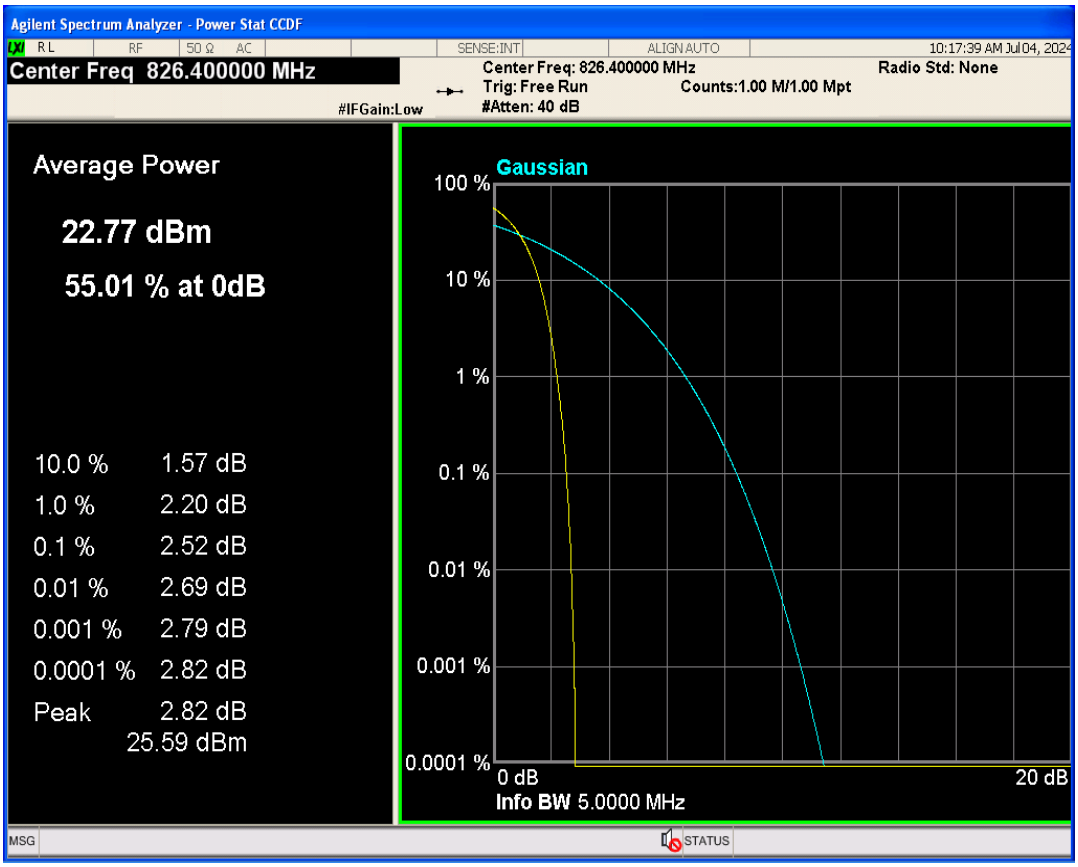

WCDMA Band4 Channel=1513



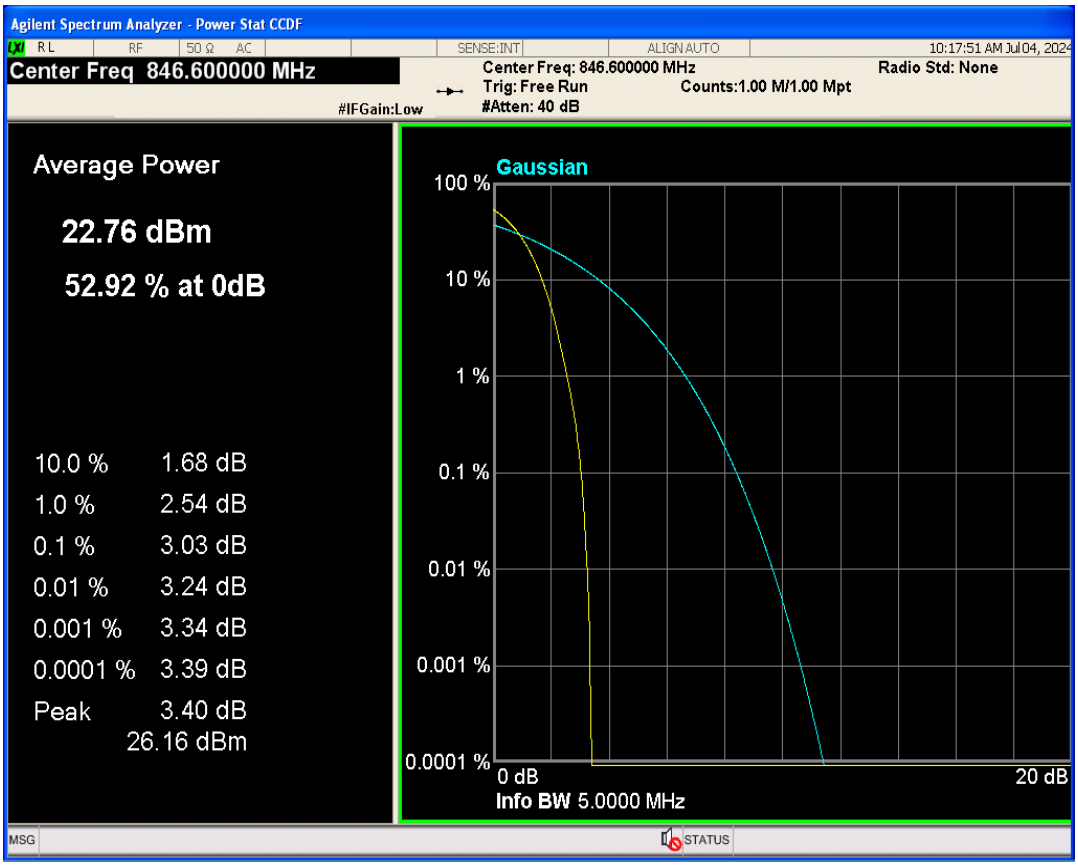

WCDMA Band5 Channel=4182




WCDMA Band5 Channel=4132



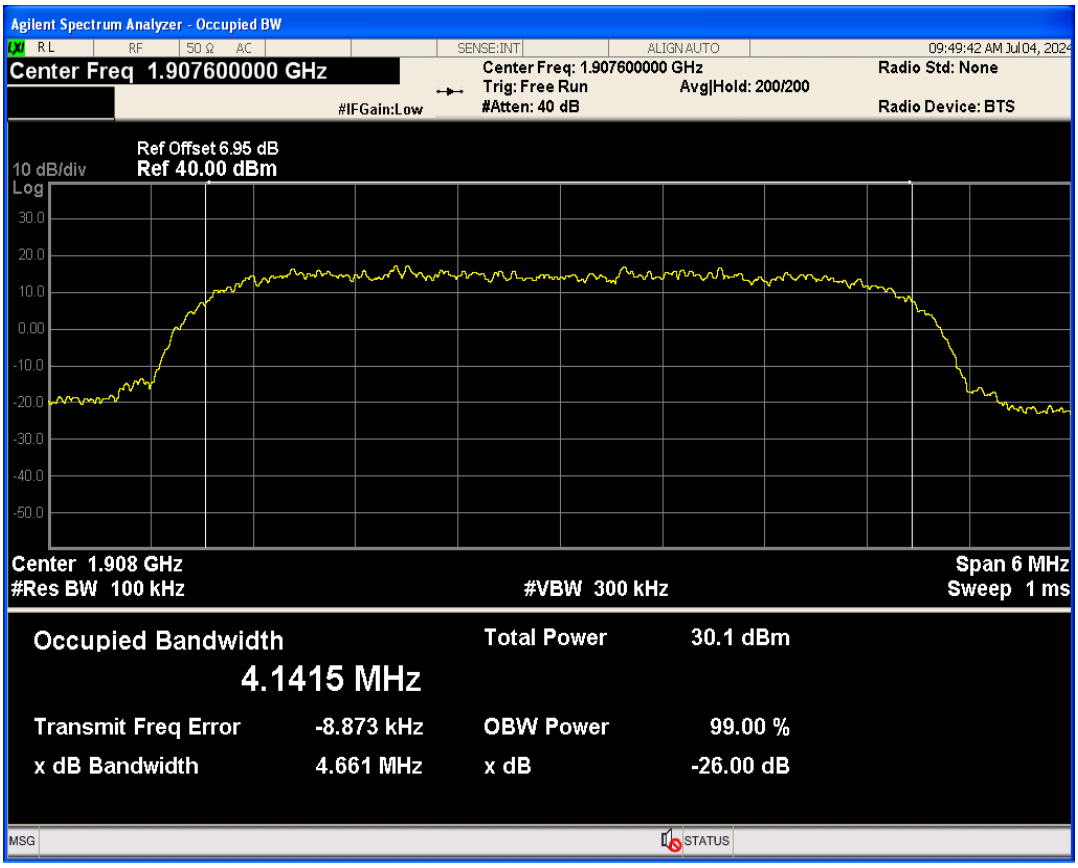

WCDMA Band5 Channel=4233



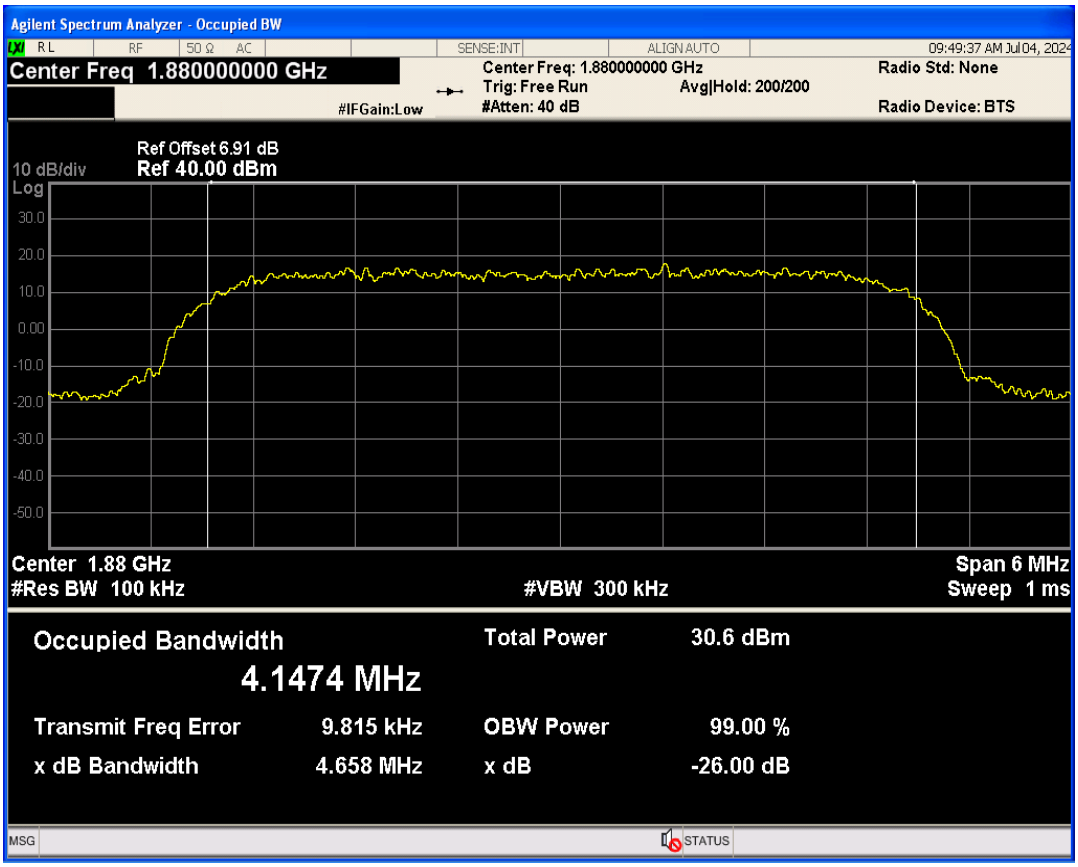

## 04 Occupied bandwidth

| Band | Channel | Frequency (MHz) | 99% OBW (kHz) | -26dB EBW (kHz) | Verdict |
|---|---|---|---|---|---|
| WCDMA Band2 | 9262 | 1852.4 | 4157.771 | 4673.411 | PASS |
| WCDMA Band2 | 9400 | 1880 | 4147.408 | 4658.152 | PASS |
| WCDMA Band2 | 9538 | 1907.6 | 4141.470 | 4660.737 | PASS |
| WCDMA Band4 | 1312 | 1712.4 | 4145.706 | 4606.917 | PASS |
| WCDMA Band4 | 1413 | 1732.6 | 4157.728 | 4672.382 | PASS |
| WCDMA Band4 | 1513 | 1752.6 | 4149.730 | 4665.821 | PASS |
| WCDMA Band5 | 4132 | 826.4 | 4160.458 | 4694.423 | PASS |
| WCDMA Band5 | 4182 | 836.4 | 4159.560 | 4659.390 | PASS |
| WCDMA Band5 | 4233 | 846.6 | 4173.469 | 4644.958 | PASS |

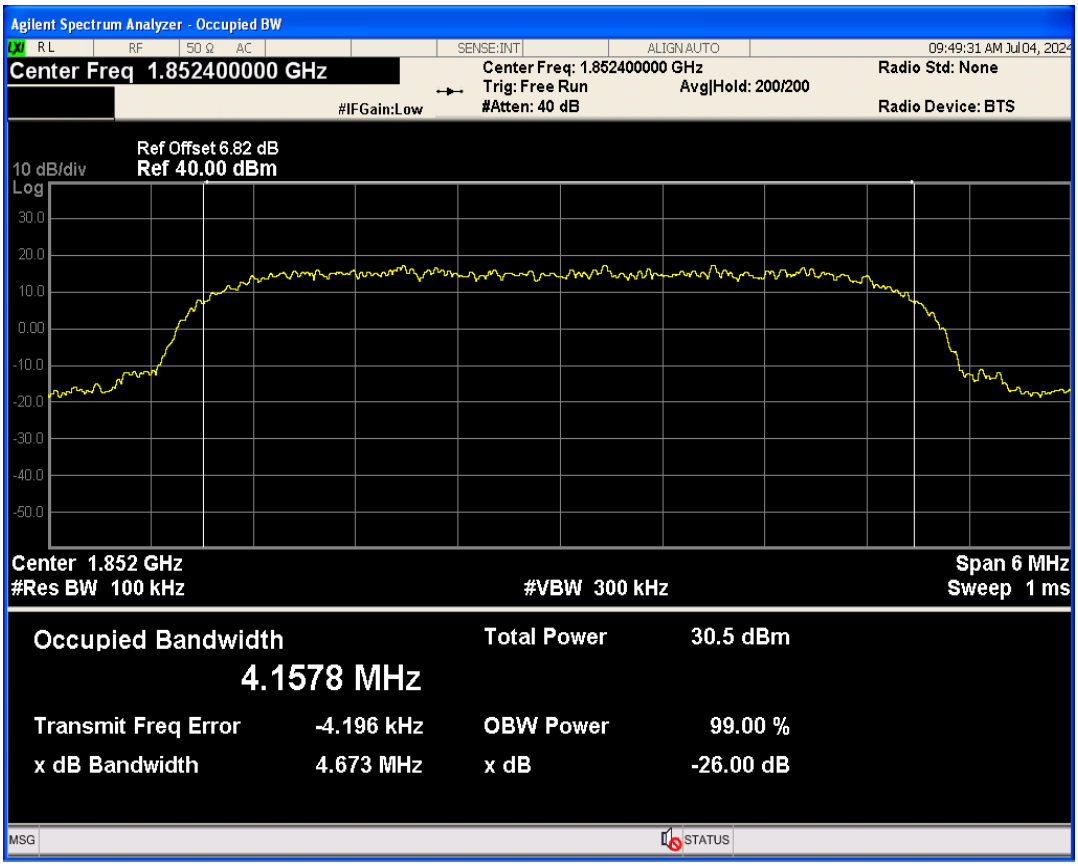
WCDMA Band2 Channel=9538



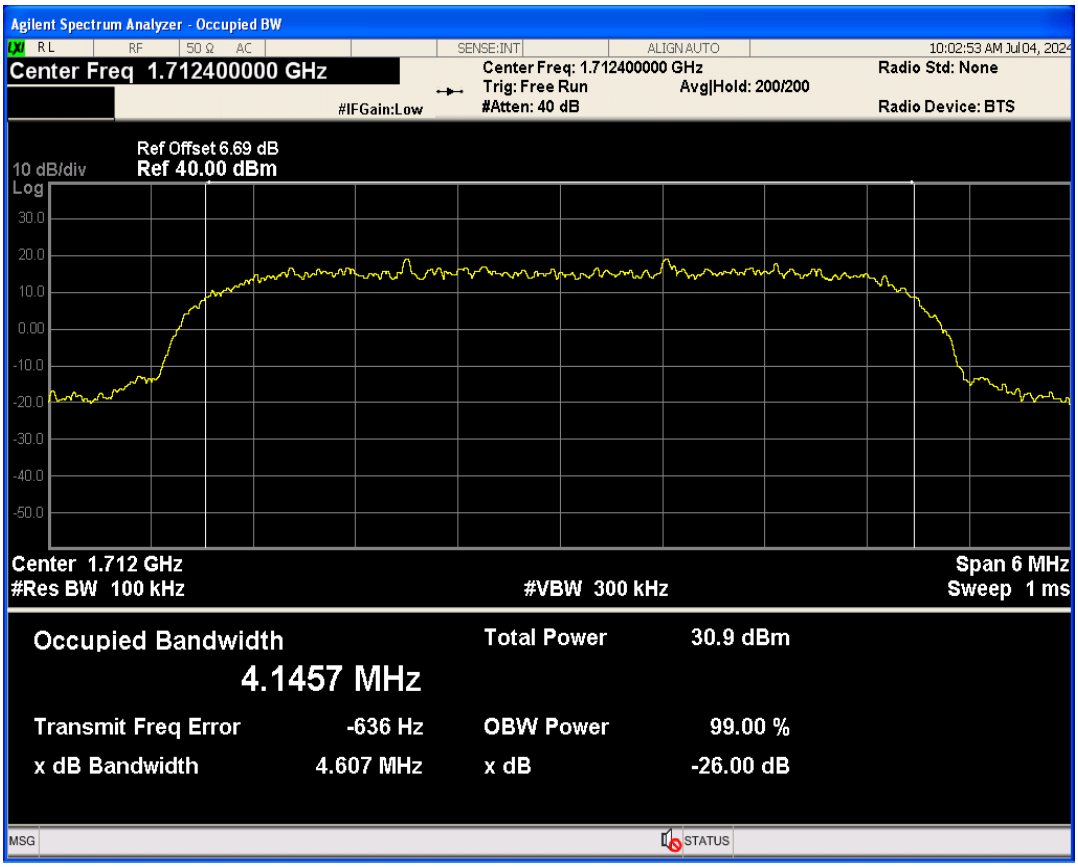

WCDMA Band2 Channel=9400



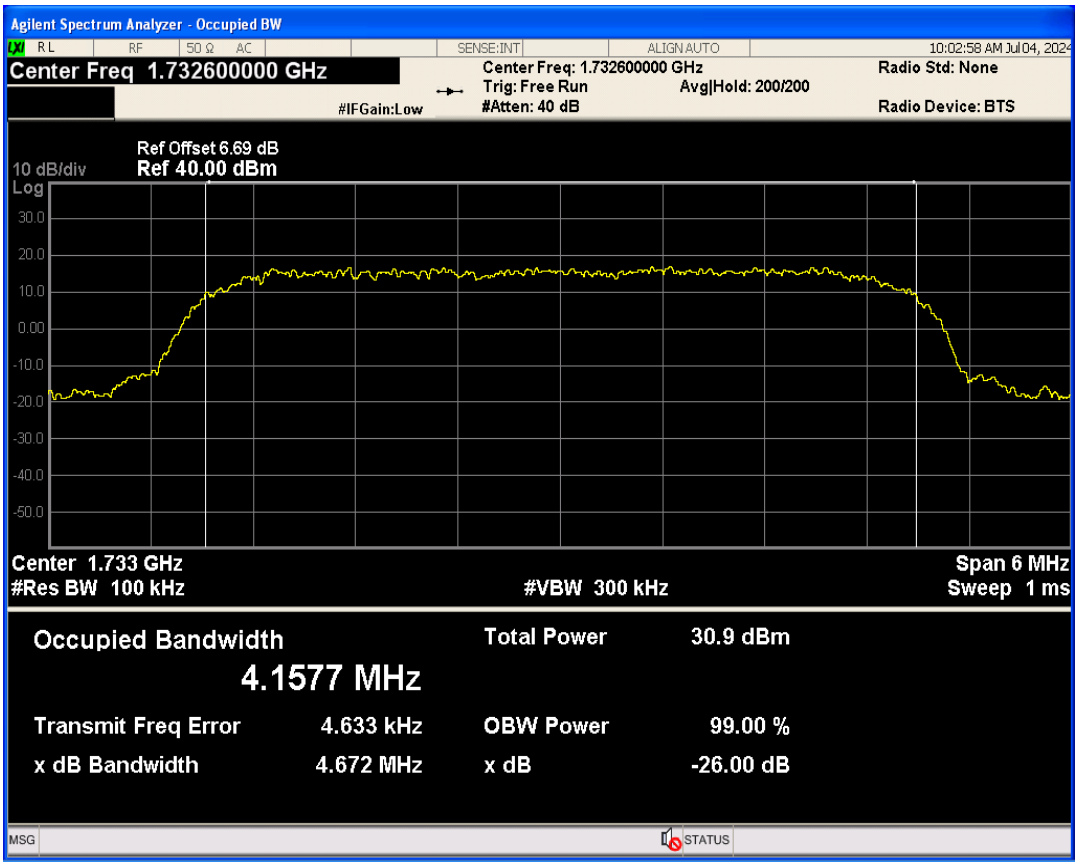

WCDMA Band2 Channel=9262



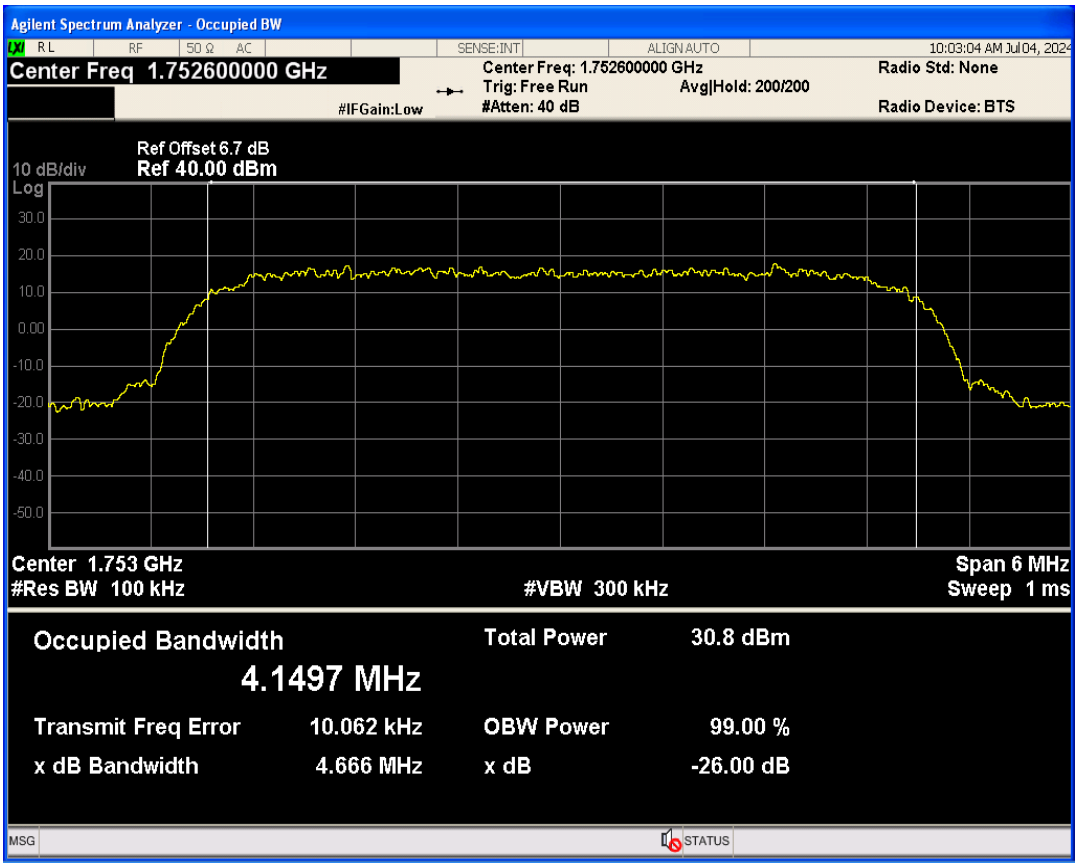

WCDMA Band4 Channel=1312



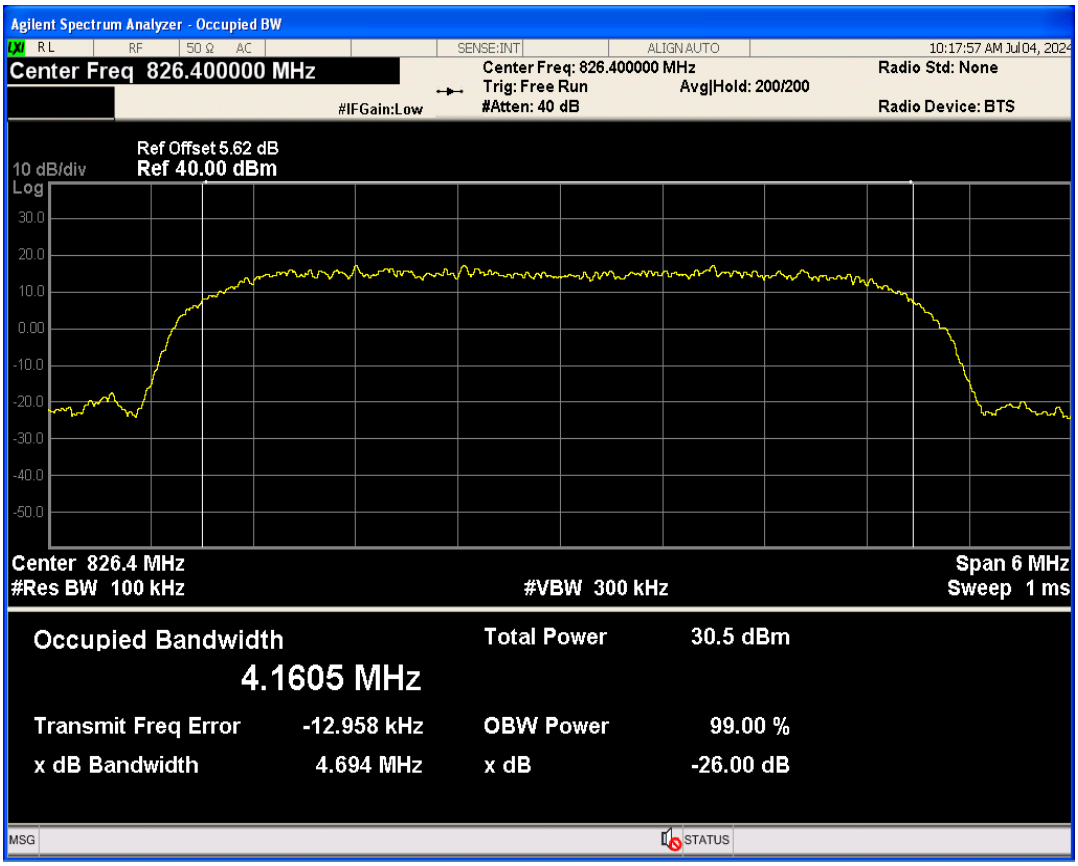

WCDMA Band4 Channel=1413



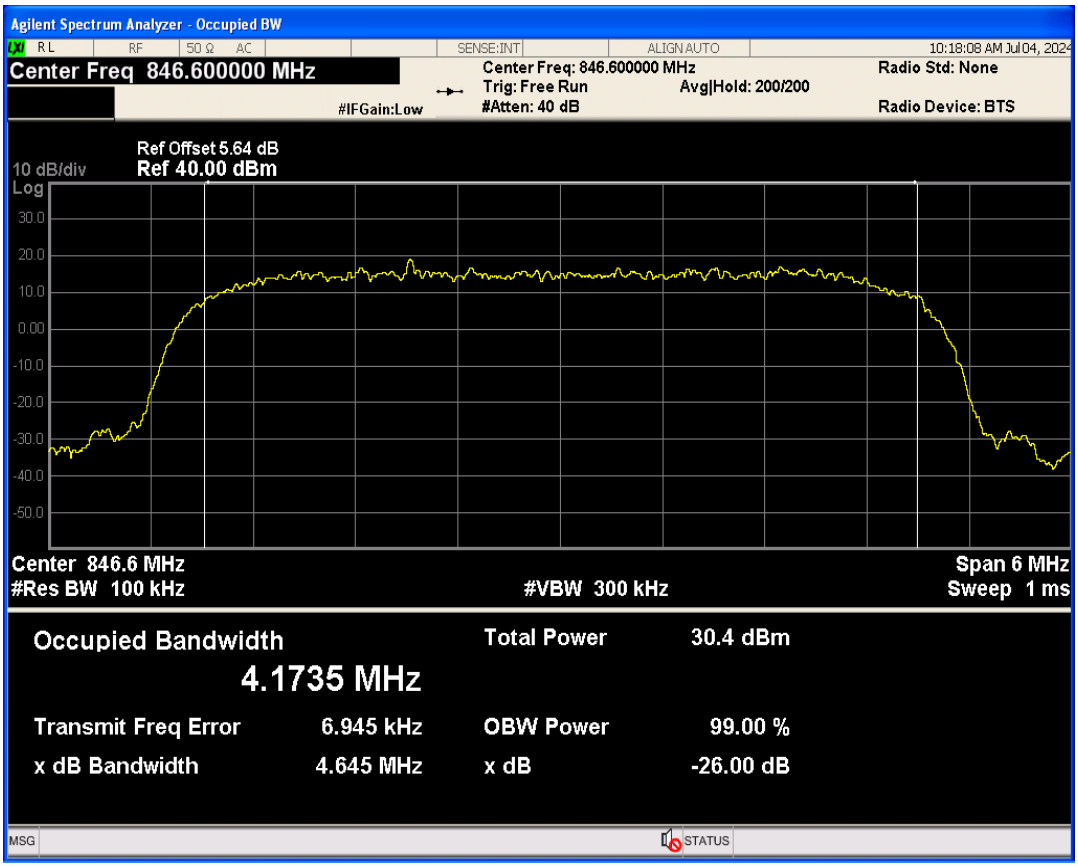

WCDMA Band4 Channel=1513



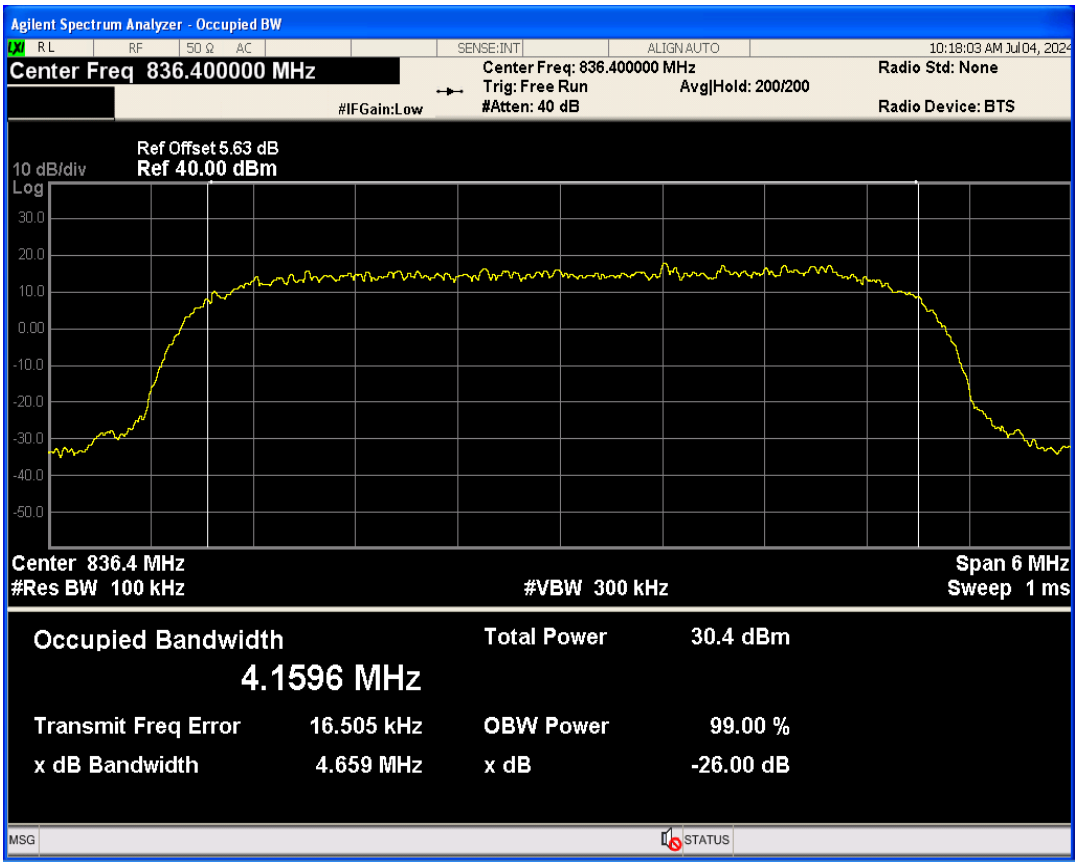

WCDMA Band5 Channel=4132




WCDMA Band5 Channel=4233




WCDMA Band5 Channel=4182

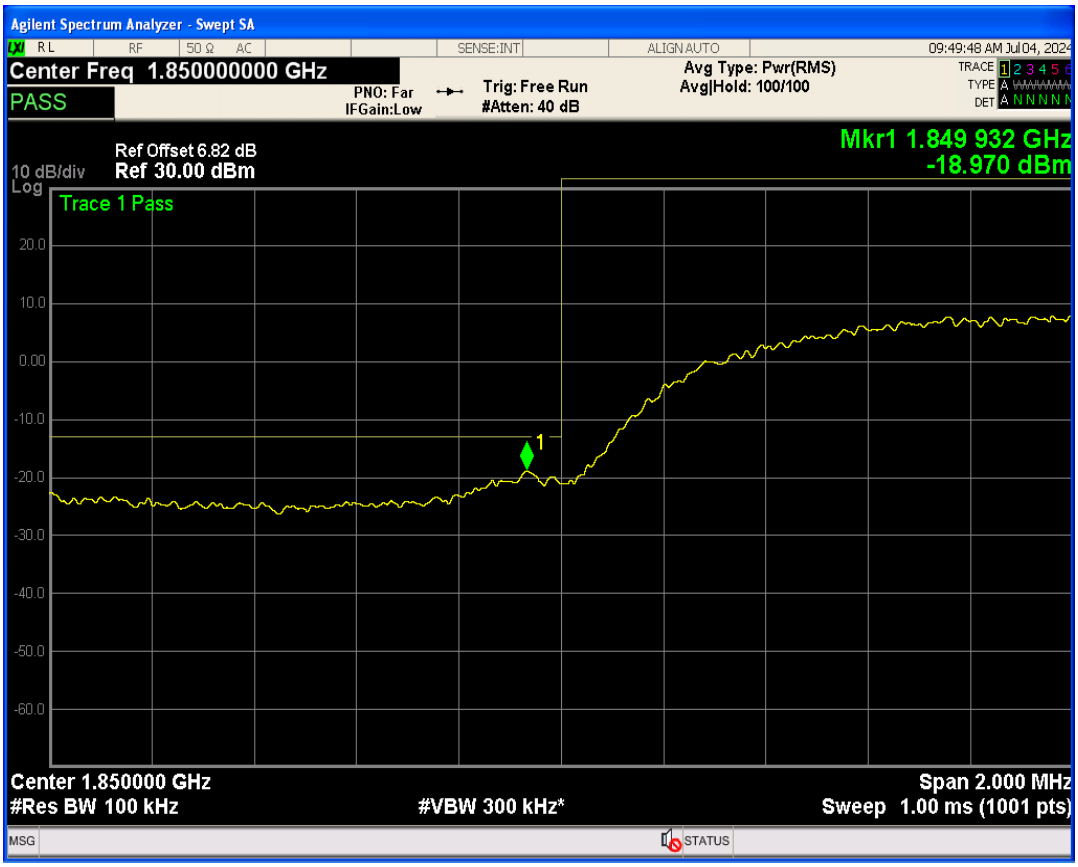



**05 Band edge**

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| WCDMA Band2 | 9262 | 1852.4 | 1849.93 | -18.96 | -13 | PASS |
| WCDMA Band2 | 9538 | 1907.6 | 1910.06 | -23.60 | -13 | PASS |
| WCDMA Band4 | 1312 | 1712.4 | 1709.91 | -20.51 | -13 | PASS |
| WCDMA Band4 | 1513 | 1752.6 | 1755.08 | -22.55 | -13 | PASS |
| WCDMA Band5 | 4132 | 826.4 | 824.00 | -22.93 | -13 | PASS |
| WCDMA Band5 | 4233 | 846.6 | 849.00 | -26.69 | -13 | PASS |

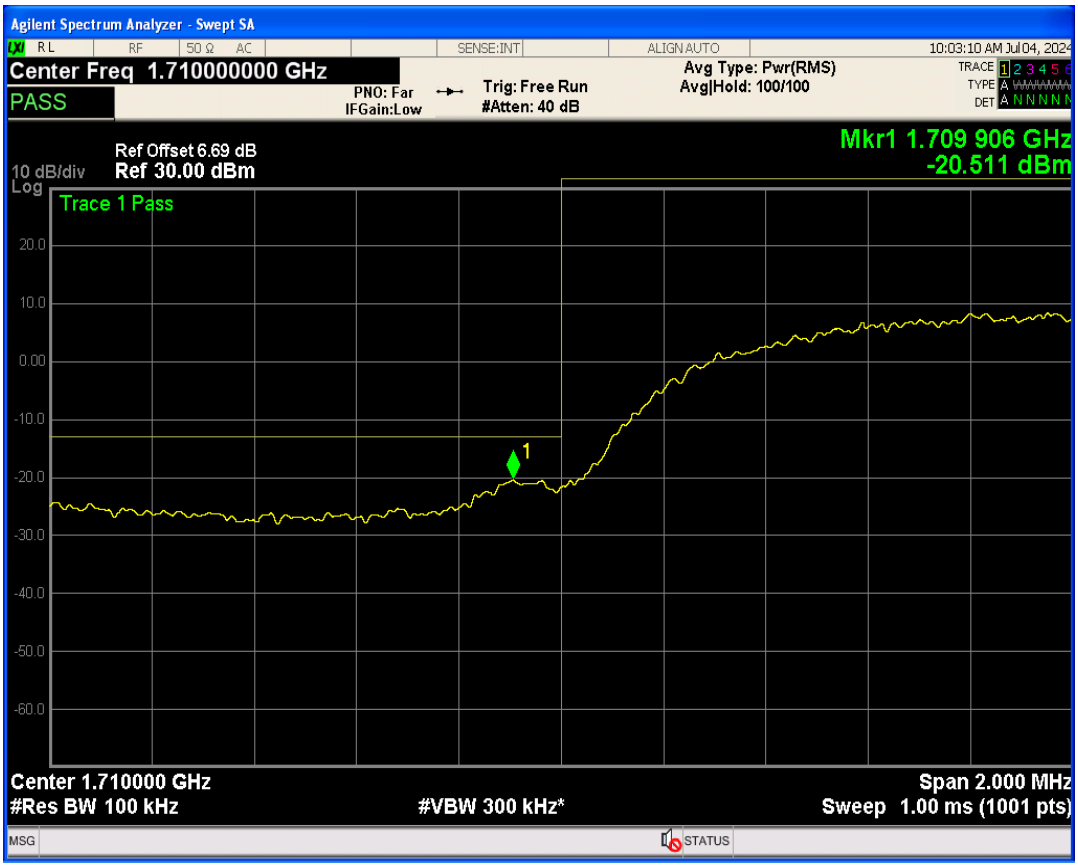
WCDMA Band2 Channel=9538

WCDMA Band2 Channel=9262



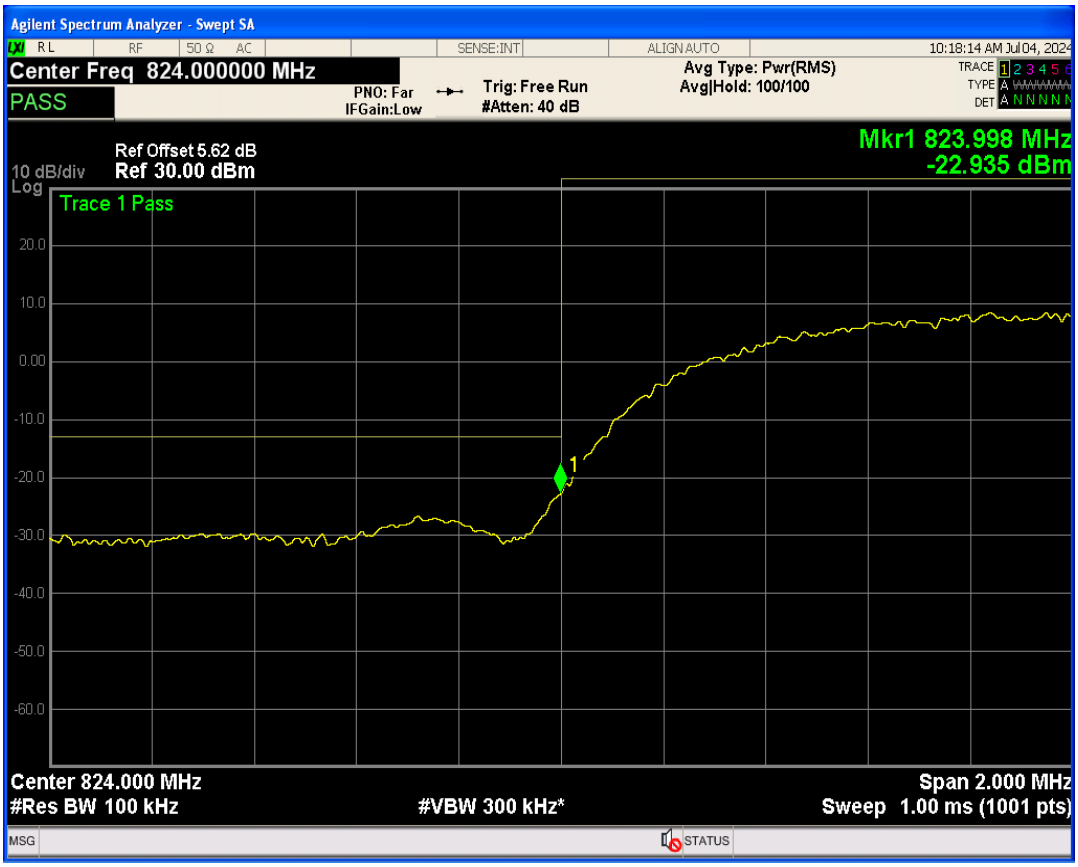

WCDMA Band4 Channel=1513

WCDMA Band4 Channel=1312




WCDMA Band5 Channel=4233

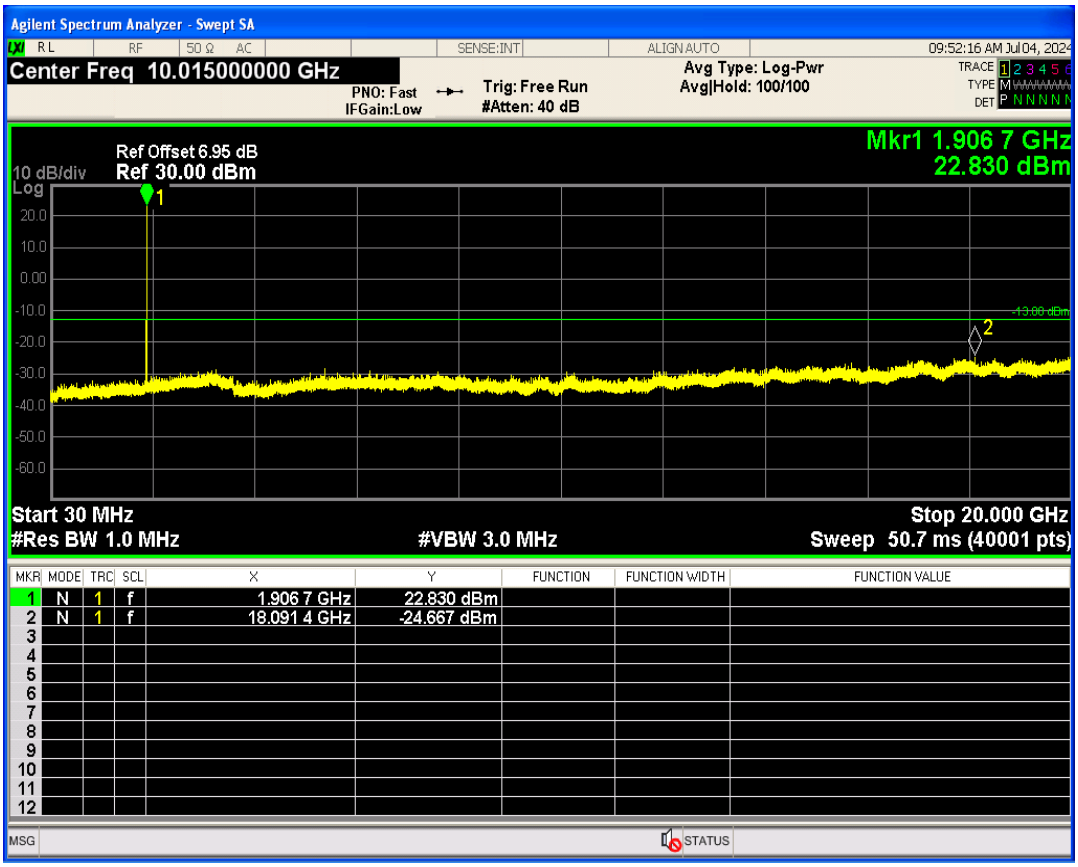
WCDMA Band5 Channel=4132



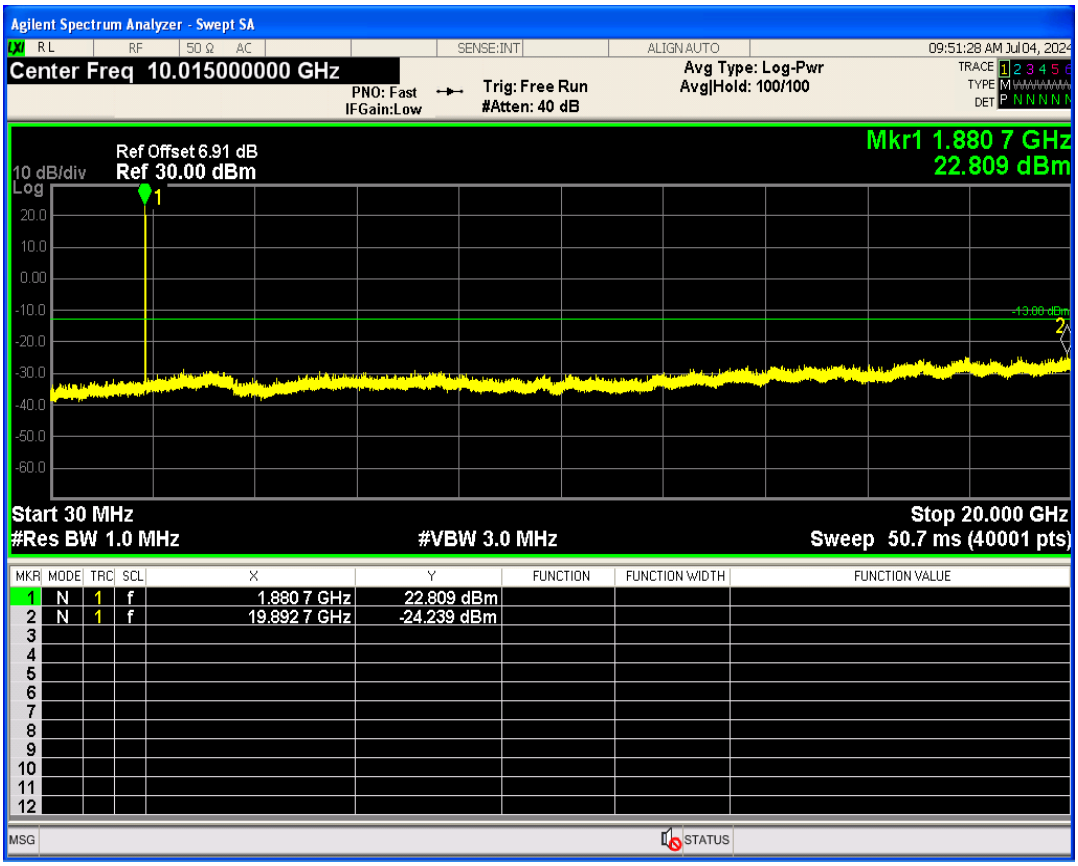

## 06 Out-of-band emissions

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| WCDMA Band2 | 9262 | 1852.4 | 19923.61 | -24.16 | -13 | PASS |
| WCDMA Band2 | 9400 | 1880 | 19892.66 | -24.23 | -13 | PASS |
| WCDMA Band2 | 9538 | 1907.6 | 18091.37 | -24.66 | -13 | PASS |
| WCDMA Band4 | 1312 | 1712.4 | 19756.37 | -24.46 | -13 | PASS |
| WCDMA Band4 | 1413 | 1732.6 | 19954.07 | -24.56 | -13 | PASS |
| WCDMA Band4 | 1513 | 1752.6 | 19882.18 | -24.49 | -13 | PASS |
| WCDMA Band5 | 4132 | 826.4 | 3155.35 | -30.18 | -13 | PASS |
| WCDMA Band5 | 4182 | 836.4 | 3169.05 | -29.97 | -13 | PASS |
| WCDMA Band5 | 4233 | 846.6 | 7562.83 | -29.63 | -13 | PASS |

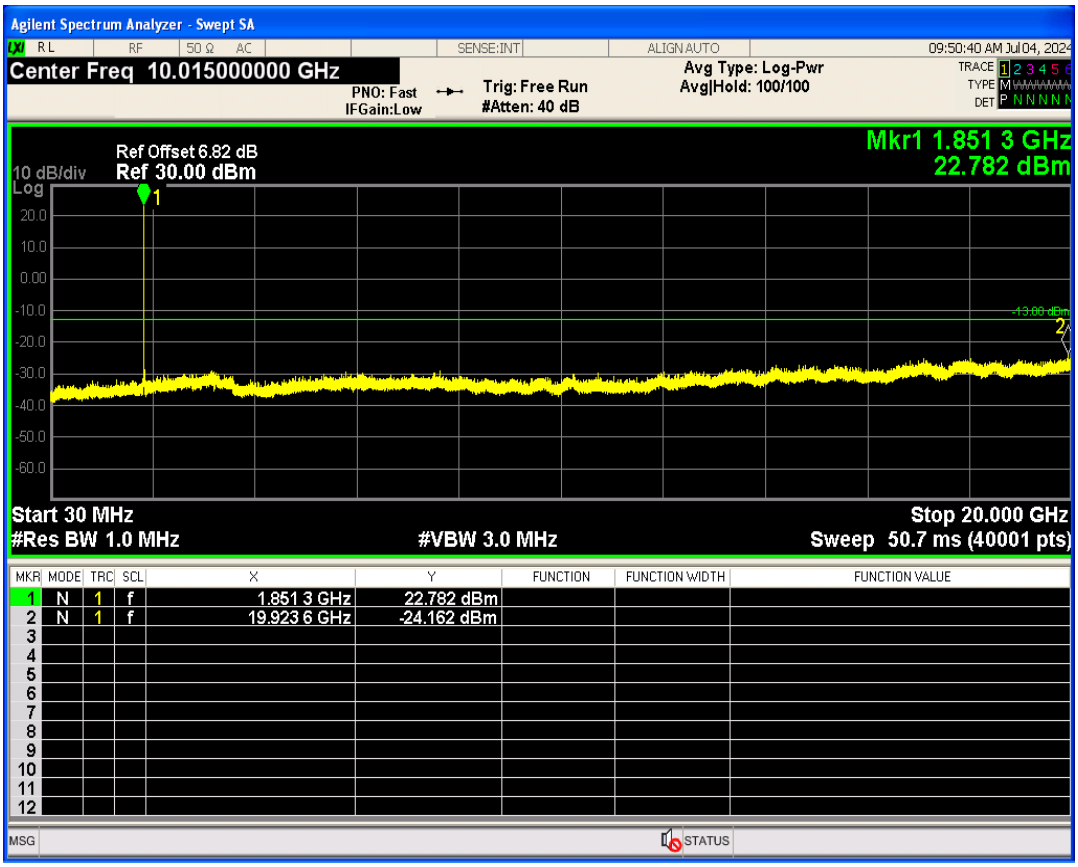
WCDMA Band2 Channel=9538



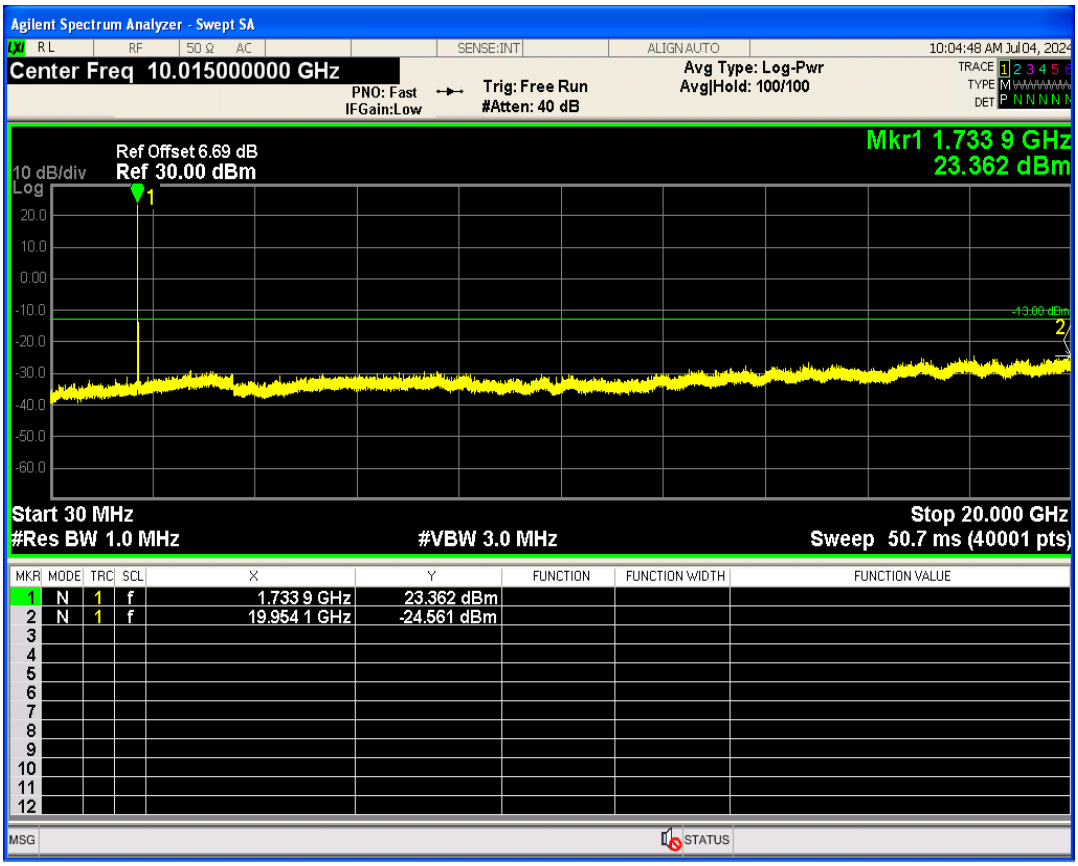

WCDMA Band2 Channel=9400



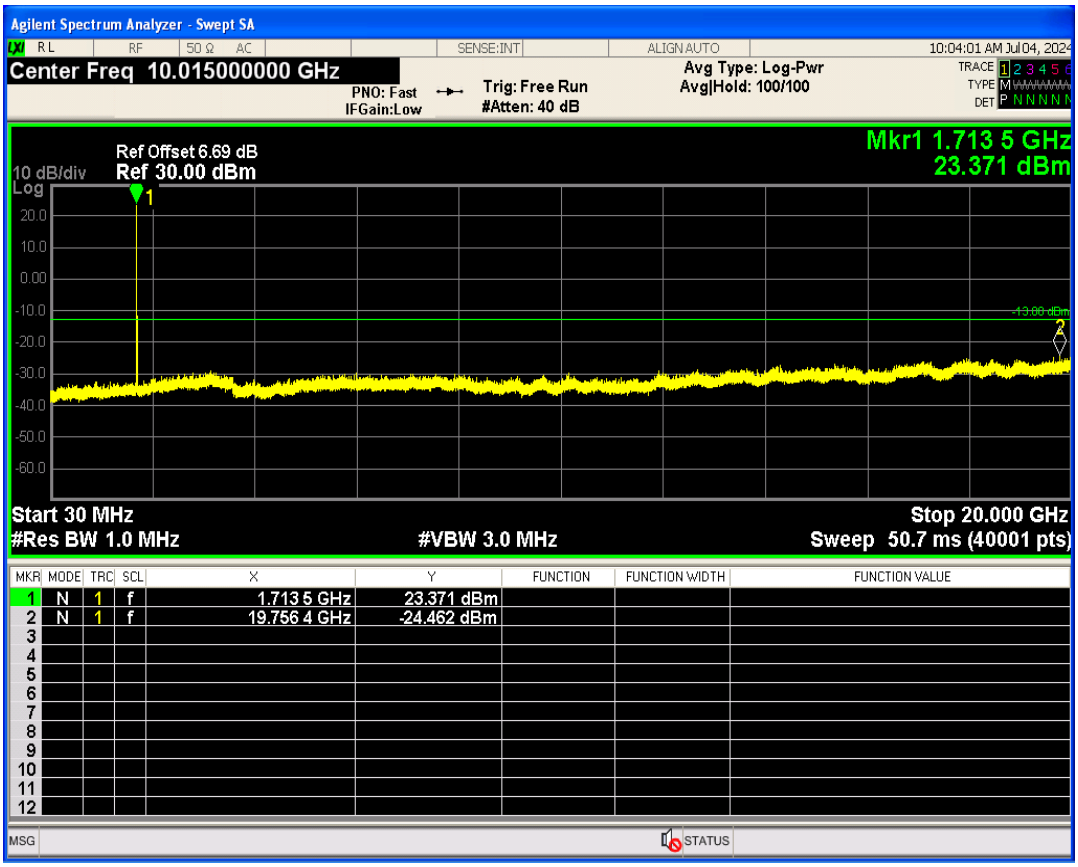

WCDMA Band2 Channel=9262



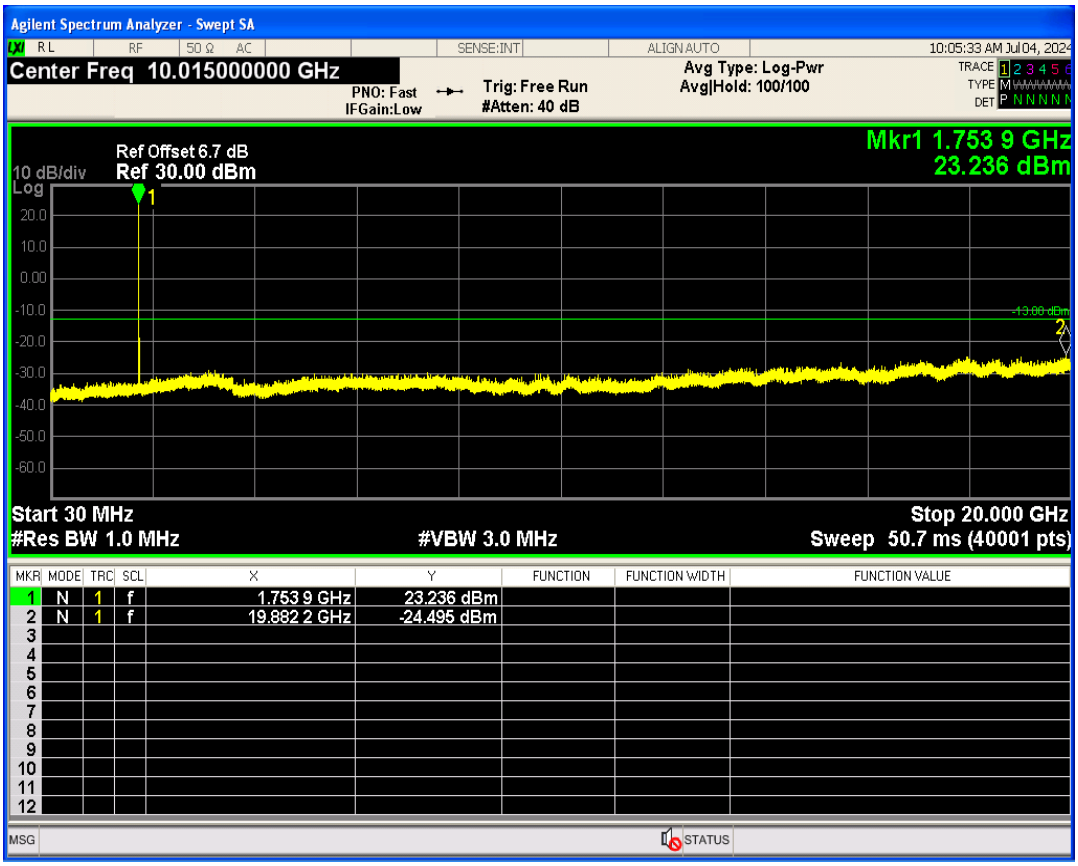

WCDMA Band4 Channel=1413



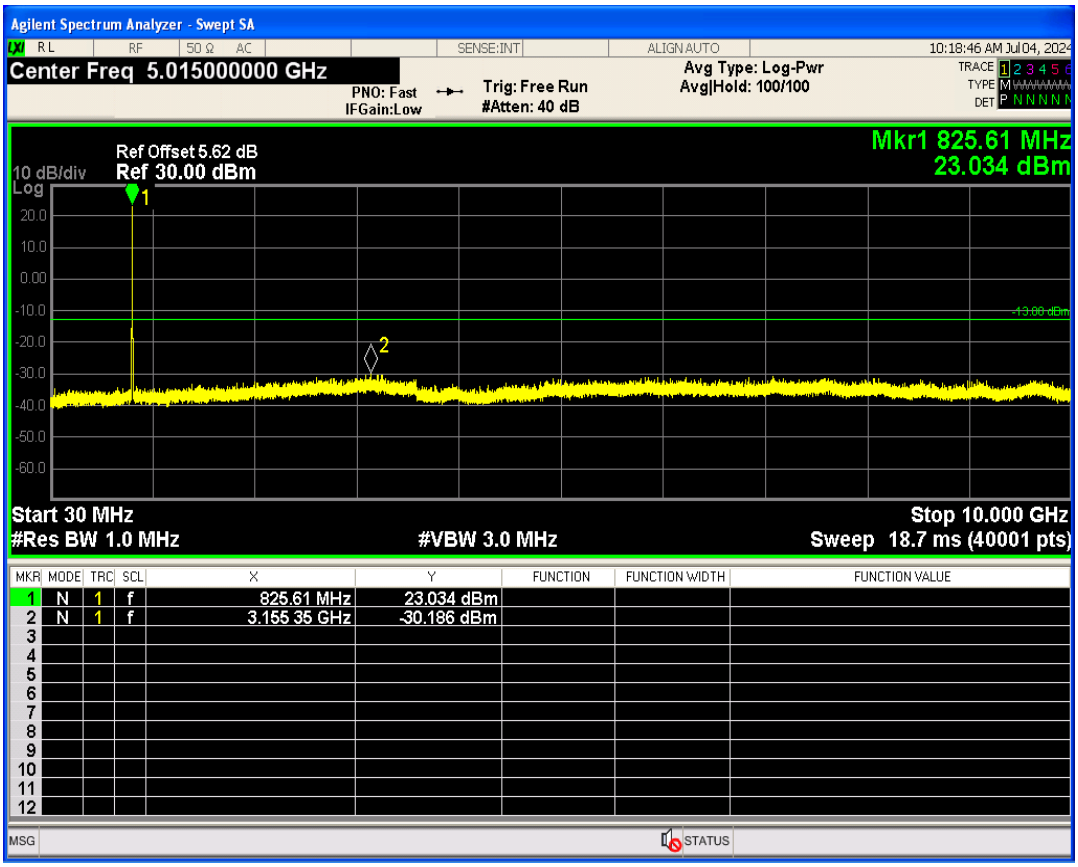

WCDMA Band4 Channel=1312



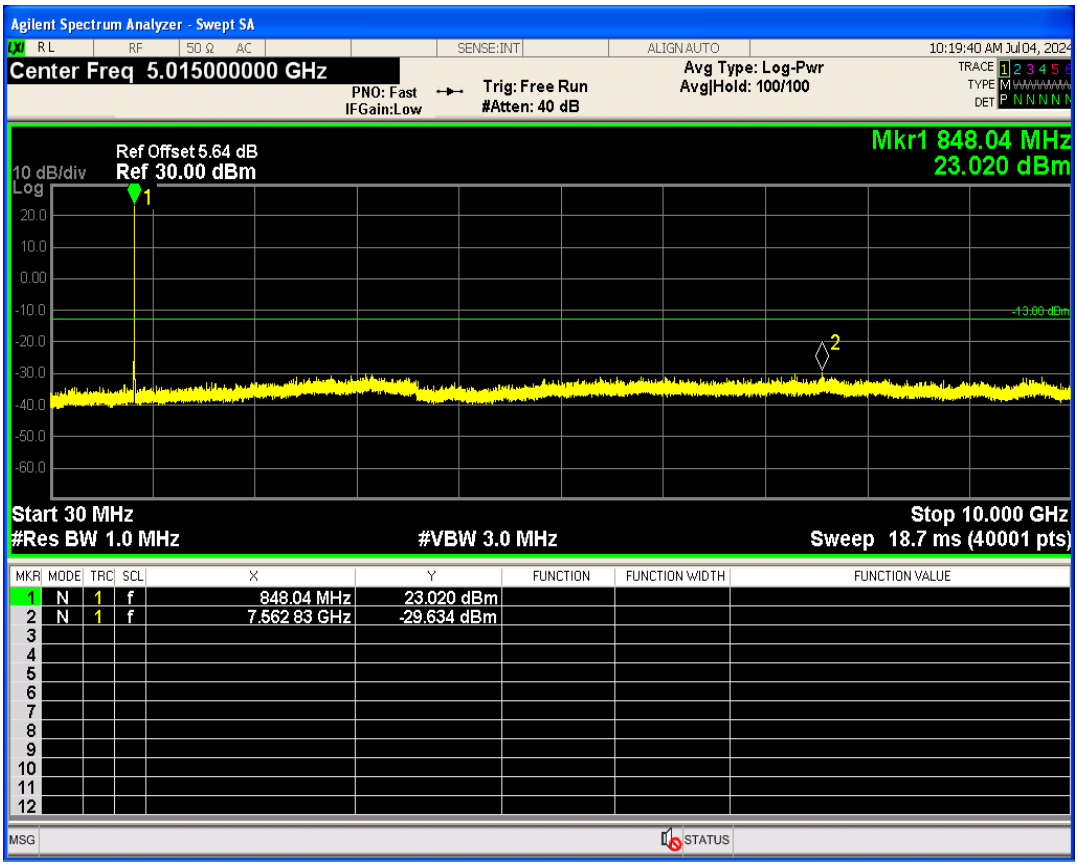

WCDMA Band4 Channel=1513



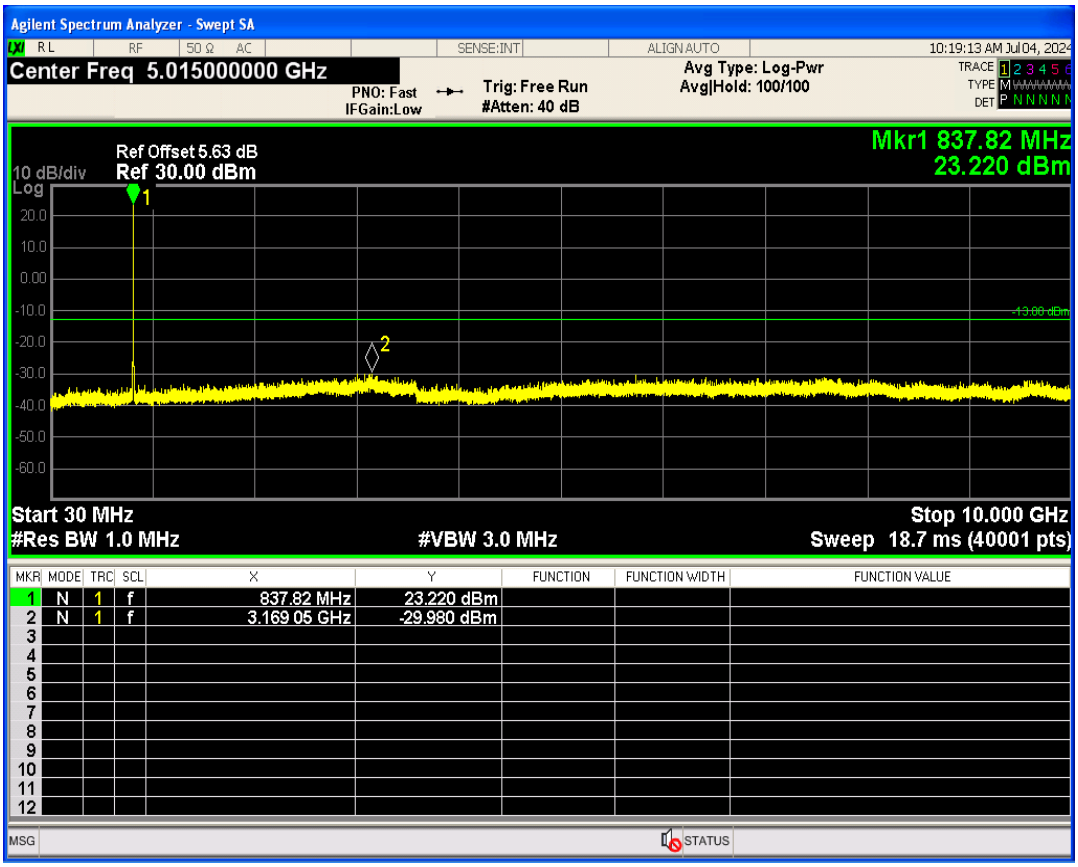

WCDMA Band5 Channel=4132




WCDMA Band5 Channel=4233




WCDMA Band5 Channel=4182


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:19:13 AM Jul 04, 2024
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 5.63 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 837.82 MHz
23.220 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-19.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
Sweep 18.7 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 837.82 MHz 23.220 dBm
2 N 1 f 3.169 05 GHz -29.980 dBm
MSG
STATUS