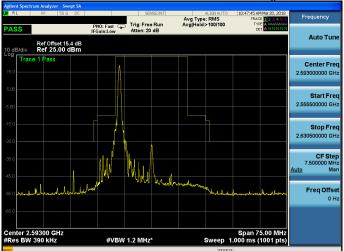
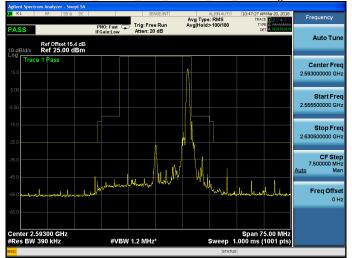


# Report No.: ER/2018/20021 Page 257 of 491

Band 41\_16QAM\_20M\_16QAM\_MID\_RB1,0.gif



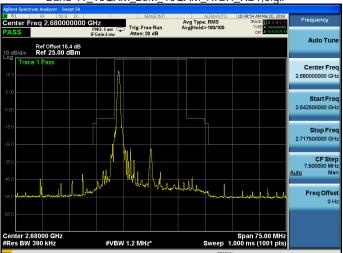
Band 41\_16QAM\_20M\_16QAM\_MID\_RB1,99.gif



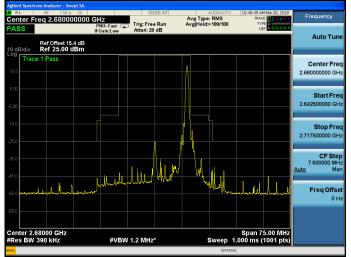
#### Band 41 16QAM 20M 16QAM MID RB100.0.gif



Band 41\_16QAM\_20M\_16QAM\_HIGH\_RB1,0.gif



Band 41\_16QAM\_20M\_16QAM\_HIGH\_RB1,99.gif



Band 41 16QAM 20M 16QAM HIGH RB100.0.gif



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台灣檢驗科技股份有限公司

## **Out of Band Emission**

## 30MHz~3GHz\_WCDMA\_B2\_LowCH9262-1852.4



# 3GHz~10GHz\_WCDMA\_B2\_LowCH9262-1852.4



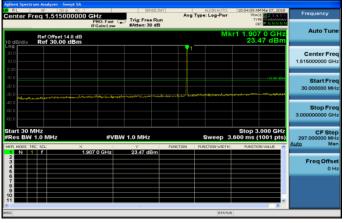
## 30MHz~3GHz WCDMA B2 MidCH9400-1880



## 3GHz~10GHz\_WCDMA\_B2\_MidCH9400-1880



## 30MHz~3GHz WCDMA B2 HighCH9538-1907.6



## 3GHz~10GHz WCDMA B2 HighCH9538-1907.6

| Center F                    |   | 50 9 AC              | GHz<br>PNO: Fast | Trig: Free R<br>#Atten: 30 d | Av                             | aLIONAUTO<br>g Type: Log-Pwr   | 18:04:19 AMMar 07, 2018<br>TRACE 12:3:4:5:6<br>TYPE MUSARMAN<br>DET P.N.N.N.N. | Frequency                            |
|-----------------------------|---|----------------------|------------------|------------------------------|--------------------------------|--|--|--------------------------------------|
| 0 dB/div                    | Ref Offse<br>Ref 30.                            | et 14.8 dB<br>00 dBm |                  |                              |                                | M  | kr1 19.932 GHz<br>-19.99 dBm   | Auto Tune                            |
| 20.0<br>10.0<br>0.00        |   |                      |                  |                              |                                |  |  | Center Fred<br>11.500000000 GH       |
| 10.0<br>20.0<br>30.0        | Provent and | يد بيد مار م         |                  |                              | ang management and the gravity | and the second | -19.09 - 1.<br>Manual - 1.<br>Manual - 1.                                      | Start Free<br>3.000000000 GH         |
| 40.0<br>50.0<br>60.0        |   |                      |                  |                              |                                |  |  | Stop Free<br>20.000000000 GH         |
| tart 3.00<br>Res BW         | 1.0 MHz   |                      | #VB              | W 1.0 MHz                    |                                |  | Stop 20.000 GHz<br>2.53 ms (1001 pts)  | CF Step<br>1.700000000 GH<br>Auto Ma |
| AKPI MODE TH<br>2<br>3<br>4 |   | ×<br>19.             | 932 GHz          | י<br>-19.99 dBm              | FUNCTION                       | FUNCTION WIDTH   | FUNCTION VALUE   | Freq Offse                           |
| 6<br>7<br>8<br>9            |   |                      |                  |                              |                                |  |  |                                      |

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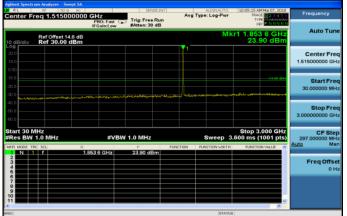
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### 30MHz~3GHz\_HSDPA\_B2\_LowCH9262-1852.4



## 3GHz~10GHz\_HSDPA\_B2\_LowCH9262-1852.4



#### 30MHz~3GHz HSDPA B2 MidCH9400-1880

| ent Spectrum Analyzer - Swept SA          |                  | SENSE:INT                       |             | ALIGNAUTO                        | 10:06:05 AMMar 07, 2018                      |                                    |
|---|------------------|---------------------------------|-------------|----------------------------------|--|------------------------------------|
| ter Freq 1.51500000                       | GHz<br>PN0: Fast | Trig: Free Run<br>#Atten: 30 dB | Avg         | Type: Log-Pwr                    | TRACE 123456<br>TYPE PINNNN                  | Frequency                          |
| Ref Offset 14.8 dB<br>B/div Ref 30.00 dBm | IF-Gain(Low      | SALEN. SU US                    |             | Mk                               | r1 1.880 3 GHz<br>23.60 dBm                  | Auto Tun                           |
|   |                  |                                 |             |                                  |  | Center Fre<br>1.515000000 GF       |
|   |                  |                                 | window free | 2,913 ye 1940 ti 1940 ti 1940 ti | دى (1) 00 مەرى<br>ئەللىدىموراھەتە، مەرىمىرەر | Start Fre<br>30.000000 MH          |
|   |                  |                                 |             |                                  |  | Stop Fre<br>3.000000000 GH         |
| rt 30 MHz<br>s BW 1.0 MHz                 | #VBW             | 1.0 MHz                         |             |                                  | Stop 3.000 GHz<br>600 ms (1001 pts)          | CF Ste<br>297.000000 MH<br>Auto Ma |
| NODE TRIC SEL X                           | 880 3 GHz        | Y<br>23.60 dBm                  | FUNCTION    | FUNCTION WIDTH                   | FUNCTION VALUE                               | Freq Offse                         |
|   |                  |                                 |             |                                  |  |                                    |
|   |                  |                                 |             | STATUS                           | >  |                                    |

#### 3GHz~10GHz\_HSDPA\_B2\_MidCH9400-1880



#### 30MHz~3GHz HSDPA B2 HighCH9538-1907.6



## 3GHz~10GHz HSDPA B2 HighCH9538-1907.6

| Agilent Spectru              | m Analyzer - S  |         |                         |           |                       |        |               |          |                        |       |                               |
|------------------------------|---|---------|-------------------------|-----------|-----------------------|--------|---------------|----------|------------------------|-------|-------------------------------|
| Center Fr                    |   | 0000000 | GHz                     |           | INSE:INT              | Avg    | Type: Log-Pwr | TRA      | MM# 07, 2018           | Frequ | iency                         |
| 10 dB/div                    | Ref Offset 1<br>Ref 30.00   |         | PNO: Fast<br>IFGain:Low |           |                       |        | М             | kr1 19.8 | et <mark>P NNNN</mark> | AL    | ito Tune                      |
| 20.0<br>10.0                 |   |         |                         |           |                       |        |               |          |                        |       | i <b>ter Freq</b><br>0000 GHz |
| -10.0                        | مرور المرور ا | *****   | 1                       |           | and the second second | men    | and Marena    | ******   | -10.00+ 1              |       | t <b>art Freq</b><br>0000 GHz |
| -40.0<br>-50.0<br>-60.0      |   |         |                         |           |                       |        |               |          |                        |       | top Freq<br>0000 GHz          |
| Start 3.000<br>#Res BW       | 1.0 MHz   | ×       | #V                      | BW 1.0 MH |                       | NCTION | Sweep 4       | 12.53 ms | 1000 GHz<br>1001 pts)  |       | CF Step<br>0000 GHz<br>Man    |
| 1 N 1<br>2 3 4<br>5 6<br>7 8 | f   | 19      | 881 GHz                 | -19.87 c  | IBm                   |        |               |          |                        | Fre   | q Offset<br>0 Hz              |
| 9<br>10<br>11                |   |         |                         |           |                       |        | STATU         |          | >                      |       |                               |

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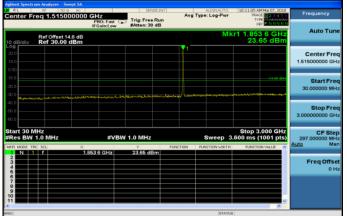
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#### 30MHz~3GHz\_HSUPA\_B2\_LowCH9262-1852.4



### 3GHz~10GHz\_HSUPA\_B2\_LowCH9262-1852.4



#### 30MHz~3GHz\_HSUPA\_B2\_MidCH9400-1880

| ilent Spectrum Analyzer - Swept SA    |  |                         |   |                                    |
|---------------------------------------|--|-------------------------|---|------------------------------------|
| RL 150.0 AC<br>enter Freq 1.515000000 | PN0: Fast<br>FGainil.ov<br>#Atten: 30 dB | Avg Type: Log-Pwr       | 10:11:45 AM Mar 07, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE 10<br>DET P 16 N 16 N 1 | Frequency                          |
| Ref Offset 14.8 dB                    | IFG8IIILOW SPACES: OF GD                 |                         | r1 1.880 3 GHz<br>23.68 dBm   | Auto Tun                           |
| 99<br>0.0<br>0.0                      |  |                         |   | Center Fre<br>1.515000000 GH       |
| 0                                     |  |                         |   | Start Fre<br>30.000000 MH          |
|                                       |  |                         |   | Stop Fre<br>3.000000000 GH         |
| rt 30 MHz<br>es BW 1.0 MHz            | #VBW 1.0 MHz                             |                         | Stop 3.000 GHz<br>.600 ms (1001 pts)  | CF Ste<br>297.000000 MH<br>Auto Ma |
| N MODE TRC SD. ×                      | .880 3 GHz 23.68 dBm                     | FUNCTION FUNCTION WIDTH | FUNCTION VALUE  | Freq Offse                         |
|                                       |  |                         |   |                                    |
|                                       |  | STATU                   | >   |                                    |

#### 3GHz~10GHz\_HSUPA\_B2\_MidCH9400-1880



#### 30MHz~3GHz HSUPA B2 HighCH9538-1907.6



## 3GHz~10GHz\_HSUPA\_B2\_HighCH9538-1907.6

| enter Fr        | eq 11.500                 | 000000    | GHZ                    |                 |                 | Avg Ty   | ALIGNAUTO                     | TRA              | MMar 07, 2018<br>06 1 2 3 4 5 6<br>Pe Monocococo<br>61 P N N N N N | Frequency                          |
|-----------------|---------------------------|-----------|------------------------|-----------------|-----------------|--|-------------------------------|------------------|--|------------------------------------|
| dB/div          | Ref Offset 1<br>Ref 30.00 | 4.8 dB    | -Gain:Low              | saten. 30       | vb              |  | М                             | kr1 19.8<br>-19. | 64 GHz<br>44 dBm   | Auto Tur                           |
| 9<br>1.0<br>1.0 |                           |           |                        |                 |                 |  |                               |                  |  | Center Fre<br>11.50000000 GF       |
|                 |                           | una an    | and the second birting | un commentation | المريد المعرفين | and a start of the | algo <sup>n addreed and</sup> | والمطويقة وريدوا | -10.00 × 1   | Start Fre<br>3.000000000 Gi        |
|                 |                           |           |                        |                 |                 |  |                               |                  |  | Stop Fr<br>20.00000000 G           |
|                 | 1.0 MHz                   |           | #VB                    | W 1.0 MHz       |                 |  | Sweep 4                       | 2.53 ms          |  | CF Ste<br>1.700000000 GI<br>Auto M |
| N 1             |                           | ×<br>19.8 | 64 GHz                 | -19.44 dE       |                 | CTION  | UNCTION WIDTH                 | FUNCT            | ON VALLE   | Freq Offs                          |
|                 |                           |           |                        |                 |                 |  |                               |                  |  |                                    |
|                 |                           |           |                        | 4               |                 |  | STATUS                        |                  | >  |                                    |

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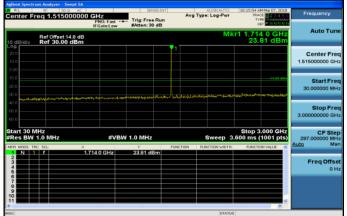
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## 30MHz~3GHz\_WCDMA\_B4\_LowCH1312-1712.4



## 3GHz~10GHz WCDMA B4 LowCH1312-1712.4



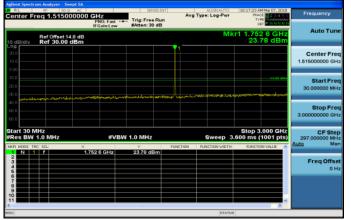
## 30MHz~3GHz\_WCDMA\_B4\_MidCH1413-1732.6

|   | rum Analyzer - Swi           |                |                      |               |           |             |                    |                   |                      |                            |
|---|------------------------------|----------------|----------------------|---------------|-----------|-------------|--------------------|-------------------|----------------------|----------------------------|
| RL<br>Ienter F                          | req 1.51500                  | 00000 G        | lz                   |               | SE:INT    | Avg         | Type: Log-Pwr      | TRAC              | 1Mar 07, 2018        | Frequency                  |
|   |                              | P<br>IF        | NO: Fast<br>Gain:Low | #Atten: 30    | dB        |             |                    | De                | PNNNNN               | Auto Tun                   |
| 0 dB/div                                | Ref Offset 14<br>Ref 30.00 c | .8 dB<br>1Bm   |                      |               |           |             | Mk                 | r1 1.734<br>23.6  | 8 GHz<br>31 dBm      | Auto Tun                   |
| 0.0                                     |                              |                |                      |               | Y         | 1           |                    |                   |                      | Center Fre                 |
| 0.0                                     |                              |                |                      |               |           |             |                    |                   |                      | 1.515000000 GH             |
| .00                                     |                              |                |                      |               |           |             |                    |                   | -10.00 45m           | Start Fre                  |
| 0.0                                     |                              |                |                      |               |           |             |                    |                   |                      | 30.000000 MH               |
| 0.0                                     | والمرد والمراسع ومعادر       | And the survey | en anna aibhleann    |               | warrawy ( | leconade da | an tainin an horas | 1 galledonigation | rhombinder and       |                            |
| 0.0                                     |                              |                |                      |               |           |             |                    |                   |                      | Stop Fre<br>3.000000000 GH |
| art 30 P<br>Res BW                      | MHz<br>1.0 MHz               |                | #VBW                 | 1.0 MHz       |           |             | Sweep 3            |                   | 000 GHz<br>1001 pts) | CF Ste<br>297.000000 MH    |
| FI MODE T                               |                              | ×<br>1.734     | 8 GHz                | ү<br>23.61 dB |           | ICTION      | FUNCTION WIDTH     | FUNCTIO           | N VALUE              | Auto Ma                    |
| 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |                              |                |                      |               |           |             |                    |                   |                      | Freq Offs<br>0 F           |
| 6<br>7<br>8                             |                              |                |                      |               |           |             |                    |                   |                      |                            |
| 9                                       |                              |                |                      |               |           |             |                    |                   |                      |                            |
|   |                              |                |                      |               |           |             |                    | _                 | > ×                  |                            |
| 3                                       |                              |                |                      |               |           |             | STATUS             |                   |                      |                            |

#### 3GHz~10GHz\_WCDMA\_B4\_MidCH1413-1732.6



### 30MHz~3GHz WCDMA B4 HighCH1513-1752.6



## 3GHz~10GHz\_WCDMA\_B4\_HighCH1513-1752.6

| Agilent Spe             |       |            |                       |             |                        |                             |                |                    |                            |                     |                             |                                       |
|-------------------------|-------|------------|-----------------------|-------------|------------------------|-----------------------------|----------------|--------------------|----------------------------|---------------------|-----------------------------|---------------------------------------|
| Center                  |       |            | 50 9                  |             |                        | 587                         | VSE:INT        | Ave                | ALIGNAUTO<br>Type: Log-Pwr |                     | MMar 07, 2018               | Frequency                             |
| Genter                  | FIG   | 4          | 1.5000                |             | PNO: Fast<br>FGain:Low | #Atten: 3                   |                |                    |                            | τı                  | PE PAULANANAN<br>ET PINNNNN |                                       |
| 10 dB/di                | iv    | Ref<br>Ref | Offset 14.<br>30.00 c | 8 dB<br>1Bm |                        |                             |                |                    | N                          |                     | 258 GHz<br>89 dBm           | Auto Tune                             |
| 20.0                    |       |            |                       |             |                        |                             |                |                    |                            |                     |                             | Center Freq<br>11.500000000 GHz       |
| -10.0<br>-20.0<br>-30.0 | 2     | -01-0      |                       |             | ul manuación de        | مواديل بيارم المتلهم الماني | et al low offi | ile and the second | woong which was a          | -<br>مايرياه رويادي | -1000 ag                    | Start Freq<br>3.000000000 GHz         |
| -40.0<br>-50.0<br>-60.0 |       |            |                       |             |                        |                             |                |                    |                            |                     |                             | Stop Freq<br>20.000000000 GHz         |
| Start 3.<br>#Res B      | W 1.  | 0 N        | z<br>NHz              |             | #VB                    | W 1.0 MHz                   |                |                    | Sweep 4                    | 2.53 ms             |                             | CF Step<br>1.70000000 GHz<br>Auto Man |
| MKPL MODE               | E TRC | SEL        |                       | × 19.0      | 15 GHz                 | -21.40 dE                   |                | NCTION             | FUNCTION WIDTH             | FUNCTI              | ON VALUE                    | ENERGY INTERT                         |
| 2 N<br>3 N<br>4 6       | 1     | f          |                       | 3.6         | 05 GHz<br>58 GHz       | -35.61 de<br>-30.89 de      | 3m             |                    |                            |                     |                             | Freq Offset<br>0 Hz                   |
| 6<br>7<br>8<br>9        | Ħ     |            |                       |             |                        |                             |                |                    |                            |                     |                             |                                       |
| 11                      |       |            |                       |             |                        |                             |                |                    |                            |                     | ~                           |                                       |
| MSG                     | _     | -          | _                     |             |                        |                             |                |                    | STATU                      | 8                   |                             |                                       |

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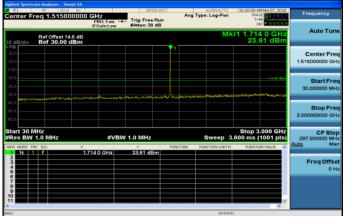
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### 30MHz~3GHz\_HSDPA\_B4\_LowCH1312-1712.4



### 3GHz~10GHz HSDPA B4 LowCH1312-1712.4



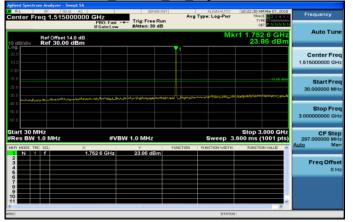
## 30MHz~3GHz HSDPA B4 MidCH1413-1732.6

| RL      |                           | a AC       |               | SEN        | SE:INT           | ALIGNAUTO                         | 10:21:50 AMMar 07, 2018                   | Frequency                          |
|---------|---------------------------|------------|---------------|------------|------------------|-----------------------------------|---|------------------------------------|
| nter Fi | req 1.5150                |            | NO: Fast      | Trig: Free | Run<br>dB        | Avg Type: Log-Pwr                 | TRACE 2 3 4 5<br>TYPE<br>DET P N N N N    |                                    |
| dB/div  | Ref Offset 1<br>Ref 30.00 | 4.8 dB     | Conneo M      |            |                  | MI                                | (r1 1.731 8 GHz<br>23.70 dBm              | Auto Tun                           |
|         |                           |            |               |            |                  |                                   |   | Center Fre<br>1.515000000 GH       |
|         |                           |            | for a defense |            | in the barry and | لدىولىدى والإدروبية ورويد والارور | -10 00 00 00 00 00 00 00 00 00 00 00 00 0 | Start Fre<br>30.000000 MH          |
|         |                           |            |               |            |                  |                                   |   | Stop Fre<br>3.000000000 GH         |
|         | 1.0 MHz                   |            | #VBV          | V 1.0 MHz  |                  |                                   | Stop 3.000 GHz<br>1.600 ms (1001 pts      | CF Ste<br>297.000000 MH<br>Auto Ma |
| NODE TH |                           | ×<br>1.731 | 8 GHz         | 23.70 dE   |                  | TION FUNCTION WIDTH               | FUNCTION VALUE                            |                                    |
|         |                           |            |               |            |                  |                                   |   | Freq Offs<br>0 F                   |
|         |                           |            |               |            |                  |                                   |   |                                    |
|         |                           |            |               |            |                  |                                   |   |                                    |
|         |                           |            |               |            |                  |                                   |   |                                    |

#### 3GHz~10GHz\_HSDPA\_B4\_MidCH1413-1732.6



#### 30MHz~3GHz HSDPA B4 HighCH1513-1752.6



## 3GHz~10GHz\_HSDPA\_B4\_HighCH1513-1752.6

|  | um Analyzer - Sv          |                           |                                  |                          |                       |  |                                       |
|--|---------------------------|---------------------------|----------------------------------|--------------------------|-----------------------|--|---------------------------------------|
| Center Fr                                  |                           | 000000 GHz                | SENSE:IN                         |                          | ALIGNAUTO             | 10:22:49 AM Mar 07, 2018<br>TRACE 12, 2, 4, 5, 6 | Frequency                             |
| Center P                                   | eq 11.500                 | PNO: Fast<br>IFGain:Lov   | Trig: Free Run<br>#Atten: 30 dB  |                          |                       | DET PNNNNN                                       |                                       |
| 10 dB/div                                  | Ref Offset 1<br>Ref 30.00 | 4.8 dB<br>dBm             |                                  |                          | ٨                     | 1kr3 5.258 GHz<br>-29.98 dBm                     | Auto Tune                             |
| 20.0                                       |                           |                           |                                  |                          |                       |  | Center Freq<br>11.500000000 GHz       |
| -10.0<br>-20.0<br>-30.0                    | and and a starting        | and a star and a start of | un Sintegraphing and an Arrithme | the second second second | and the second second | -10 00 att                                       | Start Freq<br>3.000000000 GHz         |
| -40.0<br>-50.0<br>-60.0                    |                           |                           |                                  |                          |                       |  | Stop Freq<br>20.000000000 GHz         |
| Start 3.00<br>#Res BW                      | 1.0 MHz                   | #V                        | BW 1.0 MHz                       | FUNCTION F               | Sweep 4               | Stop 20.000 GHz<br>2.53 ms (1001 pts)            | CF Step<br>1.70000000 GHz<br>Auto Man |
| 1 N 1<br>2 N 1                             | f<br>f                    | 19.762 GHz<br>3.505 GHz   | -19.64 dBm<br>-35.54 dBm         | PUNCTION                 | CHETTER WIDTH         | FUNCTION WILDE                                   |                                       |
| 3 N 1<br>6<br>6<br>7<br>8<br>9<br>10<br>11 |                           | 5 258 GHz                 | -29.98 dBm                       |                          |                       | ×  | Freq Offset<br>0 Hz                   |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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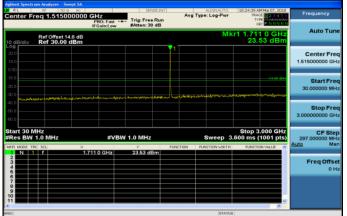
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 wan I td

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### 30MHz~3GHz\_HSUPA\_B4\_LowCH1312-1712.4



### 3GHz~10GHz\_HSUPA\_B4\_LowCH1312-1712.4



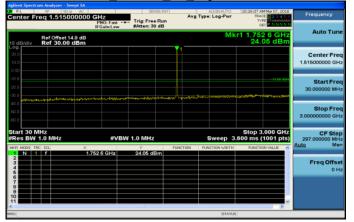
## 30MHz~3GHz HSUPA B4 MidCH1413-1732.6

| RL RF 50.9 AC                |               | SENSE:INT     | ALIGNAUTO                                      | 10:25:16 AMM# 07, 2018              |                         |
|------------------------------|---------------|---------------|--|-------------------------------------|-------------------------|
| enter Freq 1.515000000       | GHZ           | rig: Free Run | Avg Type: Log-Pwr                              | TRACE                               | Frequency               |
| Ref Offset 14.8 dB           | IFGain:Low #/ | Atten: 30 dB  | Mk   | r1 1.734 8 GHz<br>23.53 dBm         | Auto Tun                |
| dB/div Ref 30.00 dBm         |               | <b>1</b>      |  | 23.05 0.511                         | Center Fre              |
| n                            |               |               |  |                                     | 1.515000000 GH          |
|                              |               |               |  | -10.00 45m                          | Start Fre               |
| 1.0<br>0.0                   |               | -             | والمعربية ومعالمة المعالمة والمعالمة والمعالمة | ly Jewe and the method and and      | 30.000000 MH            |
|                              |               |               |  |                                     | Stop Fre                |
| .0                           |               |               |  |                                     | 3.00000000 GI           |
| art 30 MHz<br>tes BW 1.0 MHz | #VBW 1.0      | 0 MHz         | Sweep 3.                                       | Stop 3.000 GHz<br>600 ms (1001 pts) | CF Ste<br>297.000000 Mi |
| R MODE TRC SEL ×             | .734 8 GHz 2  | Y FUNCT       | ION FUNCTION WIDTH                             | FUNCTION VALUE                      | Auto Mi                 |
|                              |               |               |  |                                     | Freq Offs<br>01         |
|                              |               |               |  |                                     |                         |
|                              |               |               |  |                                     |                         |
|                              |               |               |  |                                     |                         |

#### 3GHz~10GHz\_HSUPA\_B4\_MidCH1413-1732.6



#### 30MHz~3GHz HSUPA B4 HighCH1513-1752.6



## 3GHz~10GHz\_HSUPA\_B4\_HighCH1513-1752.6

| Agilent Spectri         | um Ani     |            |              |                         |                                      |             |                |  |                  |                       |                                       |
|-------------------------|------------|------------|--------------|-------------------------|--------------------------------------|-------------|----------------|--|------------------|-----------------------|---------------------------------------|
| Center Fr               | RF         | 50 9       |              |                         | SEN                                  | SE:INT      | Ave 1          | ALIGNAUTO  |                  | MMar 07, 2018         | Frequency                             |
| Center Fr               | Сq         | 11.3000    | p            | NO: Fast ==<br>Gain:Low | #Atten: 30                           | Run<br>dB   |                |  | TY               |                       |                                       |
| 10 dB/div               | Ref<br>Ref | Offset 14  | .8 dB<br>dBm |                         |                                      |             |                | ٨  | /kr3 5.2<br>-30. | 58 GHz<br>63 dBm      | Auto Tune                             |
| 20.0                    |            |            |              |                         |                                      |             |                |  |                  |                       | Center Freq<br>11.500000000 GHz       |
| -10.0<br>-20.0<br>-30.0 | all an ar  | y Saltrage |              | Trad May 1994 Tray      | agg, Jp <sup>-1,1</sup> -1,2-1,1,2-1 | ىمى ماتورون | and the second | and the property of the second se | Valant Andrews   |                       | Start Freq<br>3.000000000 GHz         |
| -40.0<br>-50.0<br>-60.0 |            |            |              |                         |                                      |             |                |  |                  |                       | Stop Freq<br>20.000000000 GHz         |
| Start 3.00<br>#Res BW   | 1.0        | lz<br>MHz  |              | #VBI                    | W 1.0 MHz                            |             | ACTION         | Sweep 4  | 2.53 ms (        | .000 GHz<br>1001 pts) | CF Step<br>1.70000000 GHz<br>Auto Man |
| MKR MODE TR             | C SOL      |            | ×<br>19.77   | 9 GHz                   | -20.74 dE                            | m           | ACTION         | FUNCTION WIDTH   | FUNCTI           | IN VALUE              |                                       |
| 2 N 1<br>3 N 1<br>4     | ŕ          |            | 3.50<br>5.25 | 6 GHz<br>8 GHz          | -34.74 dB<br>-30.63 dB               | im<br>im    |                |  |                  |                       | Freq Offset<br>0 Hz                   |
| 6<br>7<br>8<br>9<br>10  |            |            |              |                         |                                      |             |                |  |                  |                       |                                       |
| <                       |            |            |              |                         | 4                                    |             |                | STATUS   |                  | >                     |                                       |

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### 30MHz~3GHz\_WCDMA\_B5\_LowCH4132-826.4



### 3GHz~10GHz\_WCDMA\_B5\_LowCH4132-826.4



#### 30MHz~3GHz\_WCDMA\_B5\_MidCH4183-836.6

| tor E    | reg 1.5150                |  | SENSE:                                     |          | ALIGNAUTO<br>Type: Log-Pwr | 09:47:03 AMMar 07, 201<br>TRACE   | Frequency                    |
|----------|---------------------------|--|--|----------|----------------------------|-----------------------------------|------------------------------|
| inter r  | reg 1.5150                | PNO: Fast<br>IFGain:Low                      | Trig: Free Ru<br>#Atten: 30 dE             | n        | .,,                        | DET PINNIN                        |                              |
| dB/div   | Ref Offset 1<br>Ref 30.00 | 4.3 dB<br>dBm                                |  |          | Mk                         | r3 2.509 8 GH:<br>-31.31 dBn      | Auto Tur                     |
|          |                           | ¥1   |  |          |                            |                                   | Center Fre<br>1.515000000 GH |
|          | بالم معادي وي ور          |  |  | 2<br>    | Citypedatopeoarvelw        | -10 00 40                         | Start Fre<br>30.000000 Mi    |
|          |                           |  |  |          |                            |                                   | Stop Fre<br>3.000000000 GF   |
| es BW    | MHz<br>1.0 MHz            | #VI  | 3W 1.0 MHz                                 |          | Sweep 3.                   | Stop 3.000 GH<br>600 ms (1001 pts | 297.000000 MF                |
| N MODE T |                           | ×<br>837.8 MHz<br>1.673 2 GHz<br>2.509 8 GHz | 7<br>24.44 dBm<br>-32.48 dBm<br>-31.31 dBm | FUNCTION | FUNCTION WIDTH             | FUNCTION VALUE                    | Auto Ma                      |
|          |                           |  |  |          |                            |                                   | 01                           |

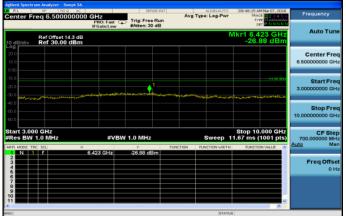
#### 3GHz~10GHz\_WCDMA\_B5\_MidCH4183-836.6



#### 30MHz~3GHz WCDMA B5 HighCH4233-846.6



## 3GHz~10GHz\_WCDMA\_B5\_HighCH4233-846.6



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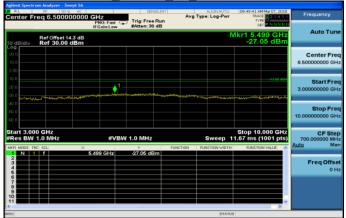


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### 30MHz~3GHz\_HSDPA\_B5\_LowCH4132-826.4



### 3GHz~10GHz\_HSDPA\_B5\_LowCH4132-826.4



#### 30MHz~3GHz\_HSDPA\_B5\_MidCH4183-836.6

| L RF 50 Ω AC                               |   | SENSE:INT                                 |                | ALIGNAUTO                           | 09:50:42 AMMar 07, 2018                      | Frequency                          |
|--|---|---|----------------|-------------------------------------|--|------------------------------------|
| nter Freq 1.51500000                       | PNO: Fast G<br>IFGain:Low               | Trig: Free Run<br>#Atten: 30 dB           | Avg            | Type: Log-Pwr                       | TRACE 123456<br>TYPE MODULANU<br>DET PINNNNN |                                    |
| Ref Offset 14.3 dB<br>dB/div Ref 30.00 dBm |   |   |                | Mk                                  | r3 2.509 8 GHz<br>-31.37 dBm                 | Auto Tun                           |
| a<br>0<br>0<br>0                           | ¥1                                      |   |                |                                     |  | Center Fre<br>1.515000000 GH       |
|  | and all reserves                        | ا<br>الاقتيادية ويوند وتعراقه وزير وعراقه | 2 <sup>2</sup> | çalı şiştar çişter çe anı adışı men |  | Start Fre<br>30.000000 MF          |
|  |   |   |                |                                     |  | Stop Fre<br>3.000000000 GF         |
| art 30 MHz<br>es BW 1.0 MHz                | #VB                                     | N 1.0 MHz                                 |                | Sweep 3.                            | Stop 3.000 GHz<br>600 ms (1001 pts)          | CF Ste<br>297.000000 MH<br>Auto Ma |
| N 1 F 2                                    | 837.8 MHz<br>1.673 2 GHz<br>2.509 8 GHz | 24.41 dBm<br>-32.41 dBm<br>-31.37 dBm     | FUNCTION       | FUNCTION WIDTH                      | FUNCTION VALUE                               | Freq Offse                         |
|  |   |   |                |                                     |  |                                    |

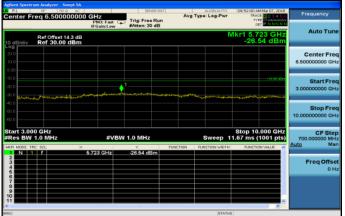
#### 3GHz~10GHz\_HSDPA\_B5\_MidCH4183-836.6



#### 30MHz~3GHz HSDPA B5 HighCH4233-846.6



## 3GHz~10GHz\_HSDPA\_B5\_HighCH4233-846.6



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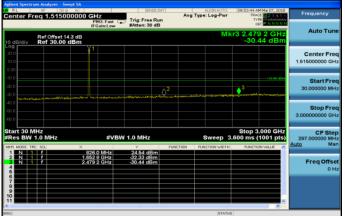
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### 30MHz~3GHz\_HSUPA\_B5\_LowCH4132-826.4



### 3GHz~10GHz\_HSUPA\_B5\_LowCH4132-826.4



#### 30MHz~3GHz\_HSUPA\_B5\_MidCH4183-836.6

| nter Freg 1.515000000        | GHz                                 | SENSE:INT                                     | ALIGNAUTO<br>Avg Type: Log-Pwr      | 09:54:44 AMMar 07, 2018<br>TRACE 2 3 4 5 6 | Frequency                    |  |
|------------------------------|-------------------------------------|---|-------------------------------------|--|------------------------------|--|
|                              | PNO: Fast CP<br>IFGain:Low          | Trig: Free Run<br>#Atten: 30 dB               |                                     | DET PINNNNN                                | Auto Tun                     |  |
| dB/div Ref Offset 14.3 dB    |                                     |   | Mk                                  | Mkr3 2.509 8 GHz<br>-30.68 dBm             |                              |  |
| g<br>.0<br>.0                | ¥1                                  |   |                                     |  | Center Fre<br>1.515000000 GH |  |
|                              |                                     |   | ger planskalanden kom skiller i kan |  | Start Fre<br>30.000000 MH    |  |
|                              |                                     |   |                                     |  | Stop Fre<br>3.000000000 GH   |  |
| art 30 MHz<br>tes BW 1.0 MHz | #VBW                                | 1.0 MHz                                       | Sweep 3.                            | Stop 3.000 GHz<br>600 ms (1001 pts)        | CF Ste<br>297.000000 MH      |  |
| N 1 7 1                      | 837.8 MHz<br>673.2 GHz<br>509.8 GHz | Y 70<br>24.37 dBm<br>-32.47 dBm<br>-30.68 dBm | NCTION FUNCTION WIDTH               | FUNCTION VALUE                             | Auto Ma<br>Freq Offse<br>0 H |  |
|                              |                                     |   |                                     |  |                              |  |

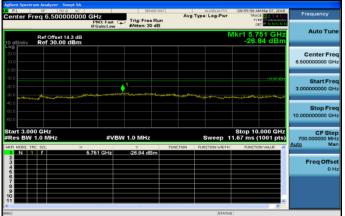
#### 3GHz~10GHz\_HSUPA\_B5\_MidCH4183-836.6



#### 30MHz~3GHz HSUPA B5 HighCH4233-846.6



## 3GHz~10GHz\_HSUPA\_B5\_HighCH4233-846.6



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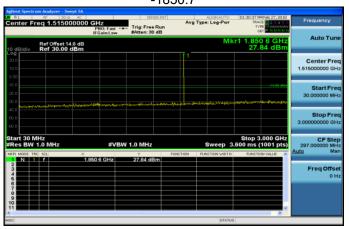
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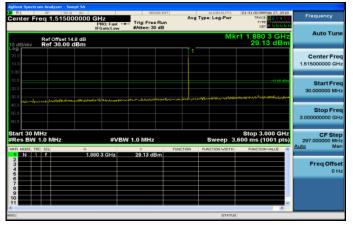
30MHz~3GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_LowCH18607 -1850.7



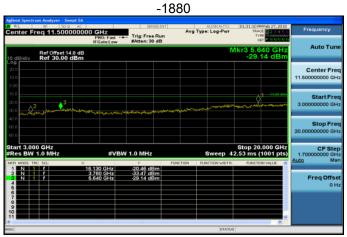
3GHz~10GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_LowCH18607 -1850.7



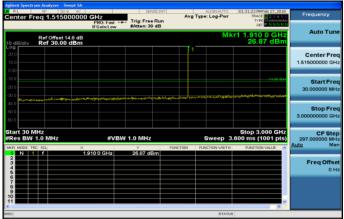
30MHz~3GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_MidCH18900 -1880



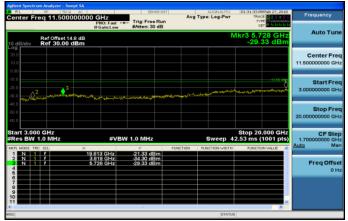
3GHz~10GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_MidCH18900



30MHz~3GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_HighCH1919 3-1909.3



3GHz~10GHz\_Band2\_1\_4MHz\_QPSK\_1\_0\_HighCH1919 3-1909.3



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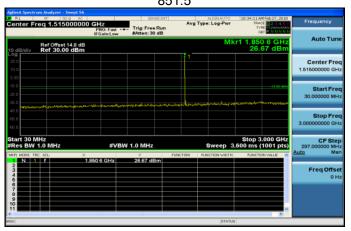
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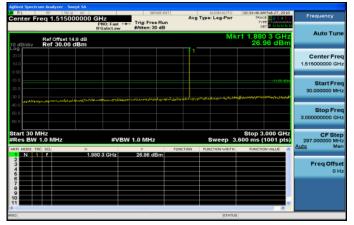
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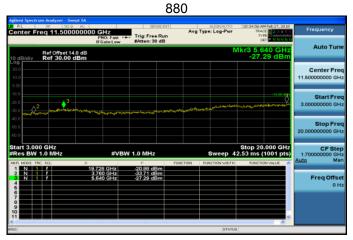
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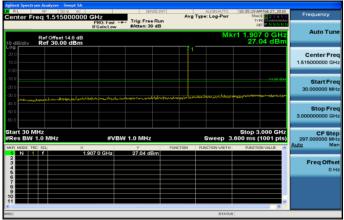
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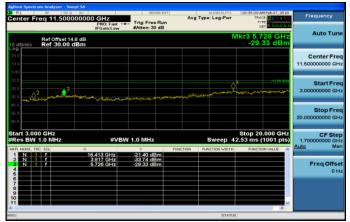
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30MHz~3GHz\_Band2\_3MHz\_QPSK\_1\_0\_HighCH19185-1 908.5



3GHz~10GHz\_Band2\_3MHz\_QPSK\_1\_0\_HighCH19185-1 908.5



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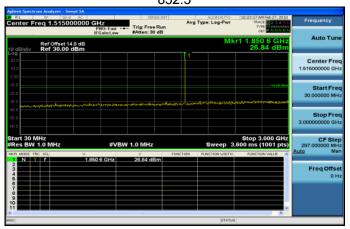
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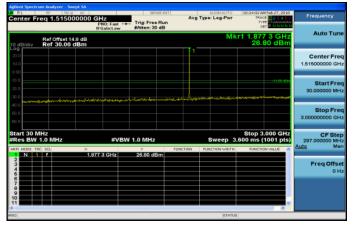
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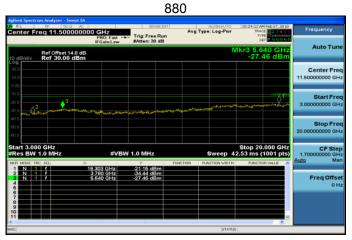
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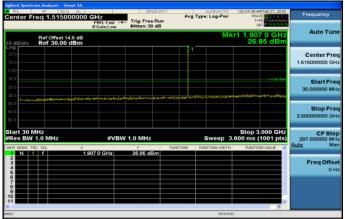
30MHz~3GHz\_Band2\_5MHz\_QPSK\_1\_0\_MidCH18900-1 880



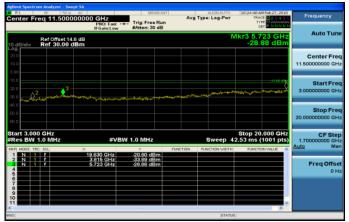
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30MHz~3GHz\_Band2\_5MHz\_QPSK\_1\_0\_HighCH19175-1 907.5



3GHz~10GHz\_Band2\_5MHz\_QPSK\_1\_0\_HighCH19175-1 907.5



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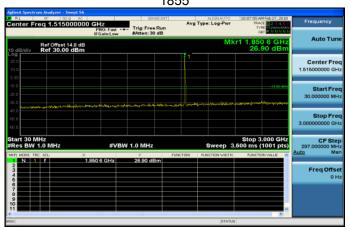
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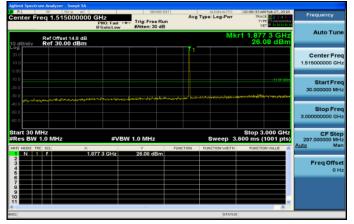
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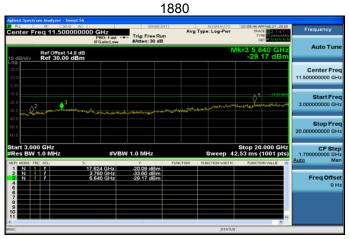
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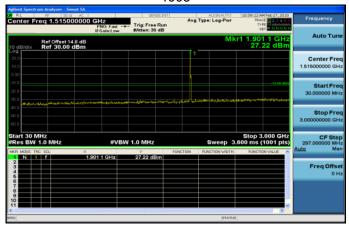
30MHz~3GHz\_Band2\_10MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz~10GHz\_Band2\_10MHz\_QPSK\_1\_0\_MidCH18900-



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3GHz~10GHz\_Band2\_10MHz\_QPSK\_1\_0\_HighCH19150-1905



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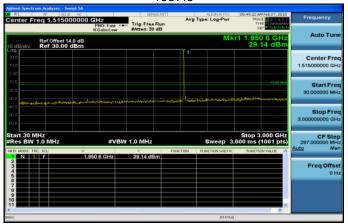
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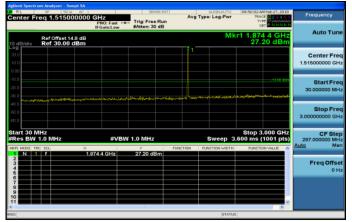
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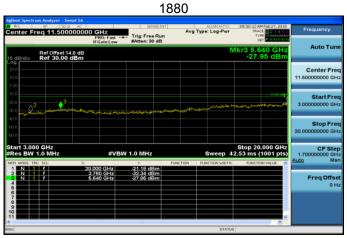
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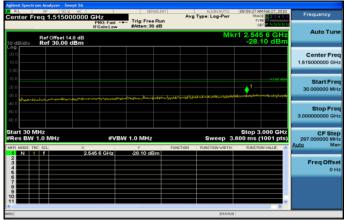
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3GHz~10GHz\_Band2\_15MHz\_QPSK\_1\_0\_HighCH19125-1902.5



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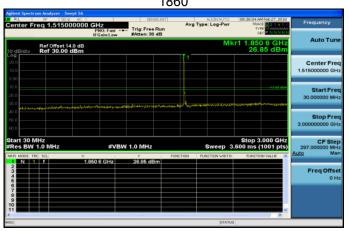
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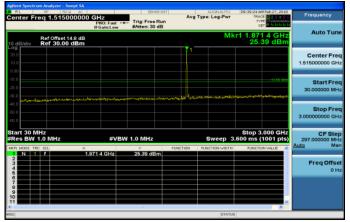
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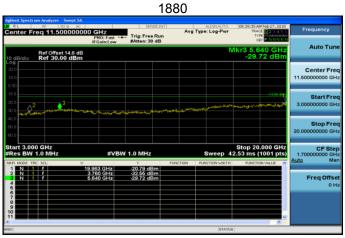
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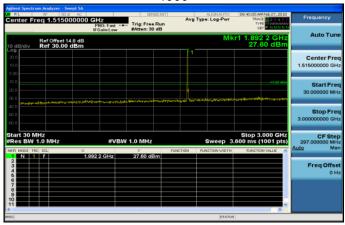
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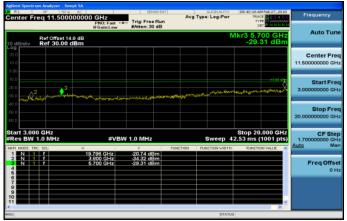
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30MHz~3GHz\_Band2\_20MHz\_QPSK\_1\_0\_HighCH19100-1900



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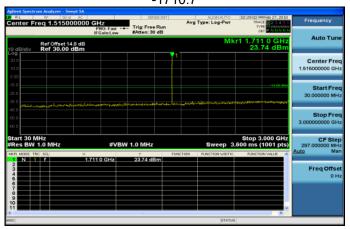
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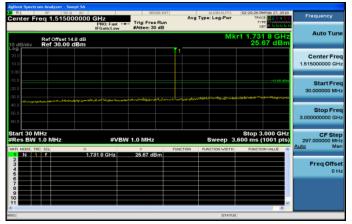
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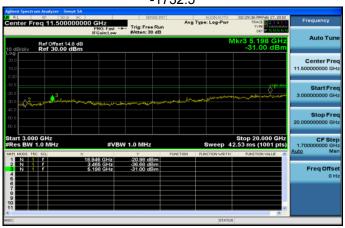
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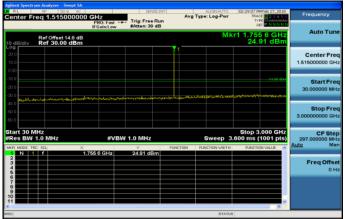
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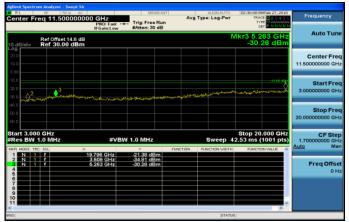
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3GHz~10GHz\_Band4\_1\_4MHz\_QPSK\_1\_0\_HighCH2039 3-1754.3



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