

Report No.: E2/2018/70055 Page 186 of 497

WCDMA B5 LowCH4132-826.4

| | | | | | | Analyzer - Swept SA | | | | |
|--------------------------------|---|-----------------|----------|----------------|--------------------|-----------------------------|-------|-------|------------------|--|
| Frequency | 9:12 PM Aug 08, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN | Log-Pwr | Avg Ty | Trig: Free Run | MHz PNO: Wide C | 50 R PC | req 8 | | Cer | |
| Auto Tur | Def Official 13.6 dB Mkr1 824.000 MHz | | | | | | | | | |
| | 23.34 dBm | | | | | Offset 13.6 dB 30.00 dBm | | B/div | 10 d | |
| Center Fre 824.000000 MH | | | | | _ | | | - | 20.0 | |
| Start Fre | -13.00 40m | | | | | | | 1 | 0.00 | |
| 823.500000 MH | | | | -+ | | | | | 20 0 30 0 | |
| Stop Fre 824,500000 MP | | | | | _ | | | 1 | 40.0 50.0 | |
| 824.500000 MP | | | | | | | | | 50.0 | |
| CF Ste 100.000 ki Auto M | 824.5000 MHz ms (1001 pts) | Ste weep 1.0 | | 150 kHz | #VBW | | 47 kH | | | |
| AUTO M | UNCTION VALUE | TION WOTH | ICTION F | -23.34 dBm | 4.000 MHz | | 1 f | N | 1 | |
| Freq Offs 01 | | | | | | | | | 2345 | |
| | | | | | | | | | 6 7 8 9 | |
| | | - | - | | | | | | 10 | |
| | | STATUS | | | | | | | 50 | |

RL RF 50 D DC Strike... RL RF 50 D DC Strike... enter Freq 849.000000 MHz PNO: Wide ↔ #Atten: 30 dB Avg Type: Log-Frequency Mkr1 849.000 MHz -21.86 dBm Auto Tu Ref Offset 13.6 Ref 30.00 dE Center Fre Start Fre Stop Fr Stop 849.5000 MH 1.000 ms (1001 pts 848.5000 MH CF Ste #VBW 150 kHz Sweep Freq Offs

WCDMA_B5_HighCH4233-846.6

HSDPA B5 LowCH4132-826.4

| Keysight Spectrum Analyzer - Swept SA | | | | -0- di - |
|---------------------------------------|--|-----------------------|--|---------------------------------|
| Center Freq 824.000000 I | MHz PMC Mide C Trig: Free Run | Avg Type: Log-Pwr | 1:13:17 PM Aug 08, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| | PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB | | DET A NNNNN | Auto Tun |
| Ref Offset 13.6 dB Ref 30.00 dBm | | Mkr1 | 24.000 MHz -22.74 dBm | MHZ |
| 20.0 10.0 | | | | |
| 10.0 20.0 | 1 | | -13.00 40m | Start Fre 823.500000 MH |
| 40.0 50.0 | | | | Stop Fre 824.500000 MH |
| tart 823.5000 MHz Res BW 47 kHz | #VBW 150 kHz | Sweep 1.00 | o 824.5000 MHz 0 ms (1001 pts) | CF Ste 100.000 kH Auto Ma |
| 2 3 4 5 | 4.000 MHz -22.74 dBm | INCTION FURCTION WOTH | | Freq Offse |
| 6 7 8 9 | | | | |
| 11 | | STATUS | | |

HSDPA_B5_HighCH4233-846.6

| Keysight Spectrum A | so p pc | SENSE:INT | ALIGN AUTO | 03:15:57 PM Aug 08, 2018 | 0.0 |
|---------------------------------|-----------------------------|----------------|-----------------------|--|----------------------|
| | 49.000000 MHz | Trig: Free Run | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Frequency |
| | IFGain:Low | | | | Auto Tun |
| | Offset 13.6 dB 30.00 dBm | | MK | r1 849.000 MHz -22.27 dBm | |
| 20.0 | | | | | Center Fre |
| 10.0 | | | | | 849.000000 MH |
| 0.00 | | | | | |
| -1D.D | | 1= | | -13.00 dDm | Start Fre |
| -20.0 | | | | | 848.500000 MH |
| -30.0 | | | | | |
| -50.0 | | | | | Stop Fre |
| -60.0 | | | | | 849.500000 MH |
| Start 848.5000 #Res BW 47 kl | | BW 150 kHz | Swaan | Stop 849.5000 MHz .000 ms (1001 pts) | CF Ste 100.000 ki |
| WRE MODE THE SOL | 12 #V | | Sweep 1 | | Auto M |
| 1 N 1 f | 849.000 MHz | -22.27 dBm | OWCTION PONCTON WIGHT | POINT I AN INALISE | |
| 2 3 4 | | | | | Freq Offs |
| 5 | | | | | |
| 6 7 8 | | | | | |
| 9 10 11 | | | | | |
| 11 | | | | | |
| * | | | STATU | | L |

HSUPA_B5_LowCH4132-826.4

| | n Analyzer - Swept SA | | | | | -e- 4 🖬 |
|---------------------------------------|-----------------------------------|--------------------|----------------|-------------------|---|---------------------------------|
| | 824.000000 I | MHz PNO: Wide G | Trig: Free Run | Avg Type: Log-Pwr | 03:19:04 PM Aug 08, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| 10 dB/div R | ef Offset 13.6 dB ef 30.00 dBm | IFGain:Low | #Atten: 30 dB | Mkr | 1 824.000 MHz -22.14 dBm | Auto Tun |
| 20.0 10.0 | | | | | | Center Fre 824.000000 MH |
| -10.0 -20.0 -30.0 | | | | | -13.00 dDm | Start Fre 823.500000 MH |
| 40.0 50.0 60.0 | | | | | | Stop Fre 824.500000 MH |
| Start 823.500 #Res BW 47 | kHz | #VB | W 150 kHz | | top 824.5000 MHz 000 ms (1001 pts) | CF Ste 100.000 kH Auto Ma |
| 1 N 1 1 2 3 4 5 6 7 | | 4.000 MHz | -22.14 dBm | | FORCTON WADE 7 | Freq Offse 0 H |
| 8 | | | | | | |

HSUPA_B5_HighCH4233-846.6

| -0- Ø- | | | | | | | | | nalyzer - Sv | | | M Ke |
|---------------------------|--|-----------------|-----------------|-----|-----------|------|---------|--------|--------------|---------------|-------|----------|
| Frequency | PM Aug 08, 2018 ACE 1 2 3 4 5 6 | TRU | g Type: Log-Pwr | | : Free Ru | | Hz | 0000 M | | req 8 | | |
| Auto Tun | Professional Stress Annual Str | | | | | | | | | | | _ |
| | .52 dBm | -22 | | | | | | | 30.00 | | B/div | 0 d |
| Center Fre | - | - | | | | + | | - | | - | | 20.0 |
| 849.000000 MI | | | | | | | | | | _ | | 10.0 |
| Start Fre | -10.00 dDm | | | | - 1 | | | - | | | | 10,0 |
| 848.500000 Mi | | | | | | - | - | - | | - | | 20 0 |
| | | | | | | | | | | | | 30.0 |
| Stop Fre 849.500000 Mi | | | | | | + | | - | | - | | 50,0 |
| 040.000000 11 | | | | | | + | - | | | | | 60.0 |
| CF Ste 100.000 ki | .5000 MHz (1001 pts) | | | | kHz | 3W 1 | #VE | | | 5000 47 kł | | |
| Auto M | TION WALUE | EUNION CONTRACT | FUNCTION WOTH | FUN | 62 dBm | | 000 MHz | X 849 | | | N | -04 |
| Freq Offs 01 | | | | | | | | | | | | 2345 |
| | 1 | | | | | | | | | | + | 6 |
| | | | | | | | | | | | | 89 |
| | | | - | | | | _ | | | | | 10 11 |
| | | s | STATU | | | | | | | | | 50 |

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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biness onerwise stated the results structure for the form in this test report refer only to the sample(s) tested and such sample(s) are retained to 19 of days offly. 除非另有说明,此報告結果僅對測試之樣品負情。同時此樣品僅保留的人。本報告未變本公司書面對可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms and conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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台灣檢驗科技股份有限公司

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Band2 1 4MHz QPSK 1 0 LowCH18607-1850.7

| | | | | | | | m Analyzar - Sve | | | |
|--------------------------------|------------------------|------------|------------|----------|---------------|---------------|------------------|------|------------|------------------------------|
| Frequency | AM Aug 11, 2018 | TRA | e: Log-Pwr | Avg | Trig: Free Ru | 00000 GHz | 1.85000 | | RL nter | |
| Auto Tur | 000 GHz | 1.850 0 | Mkr1 | | #Atten: 30 dB | | ef Offset 13 | | | |
| Center Fre 1.850000000 GH | | -23. | | ~~~~ | | | ef 30.00 d | iv R | 0 | 20.0 10.0 |
| Start Fre 1.849000000 GH | -13.00 404 | | ~~~~~ | | | | | | 0 | 0.00 10.0 20.0 30.0 |
| Stop Fre 1.851000000 GH | | | | | | | | m | 0 | 40.0 50.0 60.0 |
| CF Ste 200.000 ki Auto M | 1000 GHz (1001 pts) | 5.200 ms (| Sweep 6 | FUNCTION | W 62 kHz | × | | W 20 | es B | Re |
| Freq Offs 0 F | | | | | -23.16 dBm | 1.850 000 GHz | r | 1 : | N | 1234567 |
| | | | | | | | | | | 8 9 10 11 |
| | | IS | STATUS | | | | | | | 53 |

| -0- 4- | | | | | | Analyzar - Swept SA | | | |
|------------------------------|---|-------------|----------------|---------------|----------------------------|---------------------|--------|-------|------------------|
| Frequency | 09:53:29 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | ALIGN AUTO | Avg | SENSE:1 | | 1.91000000 | Freg | | l R Cen |
| Auto Tur | DET A NNNNN | | 1 | #Atten: 30 dB | PNO: Wide ++ IFGain:Low | | | | _ |
| Autoria | 1.910 000 GHz -18.51 dBm | Mkr1 | | | n | of Offset 13.9 dB | Ret | B/div | 0 d |
| Center Fr | | | | | | | | | 20.0 |
| 1.910000000 G | | | | | 1 | | | | 0.0 |
| Start Fr | -13 00 4011 | _ | | 1 | | | | | 0.0 |
| 1.909000000 G | | - | | | | | 200 | - | 0.0 |
| | | | Alance Sameral | | | | | | 0.0 |
| Stop Fr 1.911000000 G | and and | - | | | | | | | 0,0 |
| 1.0110000000 | | - | | | | | - | | 0.0 |
| CF St 200.000 k Auto M | top 1.911000 GHz 200 ms (1001 pts) | Sweep 6. | | 62 kHz | #VBW | | V 20 k | s Bl | Re |
| CIMINS II | FUNCTION WALVE | UNCTONIMOTH | FUNCTION | -18.61 dBm | .910 000 GHz | | 1 f | | 1 |
| Freq Offs 0 | | | | | | | | | 2 3 4 5 |
| | | | | | | | _ | | 6 7 8 |
| | | | | | | | - | - | 9 |
| | | | | | | | | _ | 1 |
| | | STATUS | | | | | | | ß |

Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3

Band2 1 4MHz QPSK 6 0 LowCH18607-1850.7

| RL | NF 50 D | SA C | SENSE:INT | ALIGN AUTO | 09:46:02 AM Aug 11, 2018 | |
|--|---------------------------------|---------------|---------------|-------------------|---|---------------------------------|
| enter F | req 1.850000 | PNO: Wide | #Atten: 30 dB | Avg Type: Log-Pwr | THACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| 0 dB/div | Ref Offset 13.9 Ref 30.00 dB | dB | | Mkr1 | 1.850 000 GHz -25.96 dBm | Auto Tuni |
| 20.0 10.0 | | | | | دار ب ورووسید مرکب میک می در میکوند. | Center Fre 1.850000000 GH |
| 20.0 | | | - it | | -13 00 40 4 | Start Fre 1.849000000 GH |
| 40.0 50.0 | | | | | | Stop Free 1.851000000 GH |
| tart 1.84 Res BW | | #VBV | V 62 kHz | | top 1.851000 GHz 200 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1 N 1 2 3 4 5 6 7 7 8 9 10 | | 1.850 000 GHz | -25.96 dBm | | 6 | Freq Offse 0 H |
| 11 | 11 | | | | | |
| 5G | | | | STATUS | | |

Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3

| | AM Aug 11, 2018 | 09-33-57 4 | ALIGN AUTO | | SENSE 1 | | | nalyzar - Si 50 i | 117 | | RL |
|---------------------|---|-------------------|-------------|---------|---------------|---------------------------|--------|----------------------|------|---------------|--------|
| Frequency | CE123456 | TRACE 1 2 3 4 5 6 | | | Trig: Free Ru | GHz | 000000 | | eq 1 | er Fre | ent |
| Auto Tun | DET A NNNNN | Di | | | #Atten: 30 dB | PNO: Wide = IFGain!Low | | | | | |
| | Ref Offset 13.9 dB Mkr1 1.910 000 GHz 10 dB/div Ref 30.00 dBm -22.11 dBm | | | | | | | | | | |
| Center Fr | | | | | | | | | | | 3.0 |
| 1.910000000 G | | | - | | | _ | _ | | _ | | 0.0 |
| | | | | | | with | ~~~~~ | | | ~ | - |
| Start Fr | -13:00:40m | | - | | 1= | | - | | + | | 1.0 |
| 1.909000000 G | | | | | time | | | | + | | 2,0 |
| | - | and and | | | | | - | | + | | 3.0 |
| Stop Free | | | | | | | | | | | 3.0 |
| 1.911000000 G | | | | | | | | | | | 2.0 |
| | | | | | | | | | | | L |
| CF St 200.000 k | | | Sweep 6. | | 62 kHz | #VB | | | | 1.909 BW 2 | |
| Auto M | CIN WALLEE | FUNCTO | UNCTON WOTH | FUNCTIO | Ŷ | | × | | | | |
| Freg Offs | | | | | -22.11 dBm | 0 000 GHz | 1.910 | | T | 1 1 | 2 |
| o line of the other | | | | | | | | | | - | 3 |
| | 1 | | | | | | | | | | 5 |
| | | | | | | | | | | - | 7 B |
| | | | | | | | | | | | 9 |
| | | | | | | | | - | | - | 1 |
| | | | STATUS | | | | | | | | 3 |

Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

| | | | | | | | nalyzar - Svee | | | |
|---------------------------------|---|---------------|----------|---------------|----------|-----------|-----------------------|---------------|-------|------|
| Frequency | 09:10:18 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Type: Log-Pwr | A | SENSE: | łz | 0000 GH | .85000 | eq 1. | | en |
| Auto Tur | DET A NNNNN | | | #Atten: 30 dB | NO: Wide | PN | | | | _ |
| Auto Tu | 1.850 000 GHz -16.05 dBm | Mkr1 | | | | | Offset 13. 30.00 c | | B/div | D dl |
| Center Fre 1.850000000 GH | | | 1 | | | | | | | 0.0 |
| Start Fre 1.849000000 GH | | Marco and | | 1 | | | | | | 0.0 |
| Stop Fre 1.851000000 GH | | | _ | | | | ~ | ~ | ~ | 0 |
| CF Ste 200.000 ki Auto Mi | top 1.851000 GHz 667 ms (1001 pts) | | | / 120 kHz | #VB | | | 9000 39 kH | | le |
| | FORCHONINGLOE | FUNCTIONWOTH | FUNCTION | -16.05 dBm | 0 GHz | 1.850 000 | | 1 | N | 1 |
| Freq Offs 01 | | | | | | | | | - | 4 |
| | | | | | | | | | + | 6789 |
| | | | | | - | | | + | | 0 |
| | | STATUS | | | | | | | - | 3 |

Band2_3MHz_QPSK_1_14_HighCH19185-1908.5

| | | | | | | It SD D DC | | 御 王 × | |
|---------------------------------|--|--------------|----------|----------------|--------------------|-----------------|--------|--------------------|--|
| Auto Tune | 09:38:23 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW | ALIGN AUTO | Ave | Trig: Free Run | O GHz PNO: Wide | req 1.910000000 | | | |
| | Proc. Wide The product Control of the product Contro | | | | | | | | |
| Center Fre 1.91000000 GR | | | | 7 | F | | 1.0 | 20.0 | |
| Start Fre 1.909000000 GP | -13:03 4211 | | ~~~~ | 1 | | www | 0 | -10.0 | |
| Stop Fre | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~ | | | | | | 40.0 | |
| CF Ste 200.000 ki Auto Ma | top 1.911000 GHz 667 ms (1001 pts) | Sweep 1. | | V 120 kHz | #VE | | les BW | Re | |
| | FUZICION WALLE | UNCTION WOTH | FUNCTION | -13.76 dBm | 10 000 GHz | | N 1 | 1 2 | |
| Freq Offs 01 | | | | | | | 5 | 34567 | |
| | | | | | | | | 8 9 10 11 | |
| | | STATUS | | " | | | | * | |

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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bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

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Band2 3MHz QPSK 15 0 LowCH18615-1851.5

| 0.0 | | | | | | selyzer - Swept SA | ectrum Ar | | Ke Ke |
|--------------------------------|---|---------------|---------|---------------|------------|-----------------------------|---------------|-------|------------------------------|
| Frequency | 09:29:22 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | Type: Log-Pwr | | Trig: Free Ru | GHz | 850000000 | | | |
| Auto Tur | 1.850 000 GHz -24.43 dBm | Mkr1 | | #Atten: 30 dB | IFGain:Low | Offset 13.9 dB 30.00 dBm | | B/div | lo di |
| Center Fr 1.850000000 GR | | | | | | | | | og 20.0 10.0 |
| Start Fre 1.849000000 Gi | -13 00 dDm | | / | 12 | | | | | 0.00 10.0 20.0 30.0 |
| Stop Fr 1,851000000 Gi | | | | | | | | | 0.0 |
| CF Ste 200.000 ki Auto M | top 1.851000 GHz 667 ms (1001 pts) | S Sweep 1. | FUNCTIO | 120 kHz | | łz × | 9000 39 ki | s BW | Re |
| Freq Offs 01 | | | | -24.43 dBm | 000 GHz | 1.850 | 1 1 | N | 1234567 |
| | | | | | | | | | 7 8 9 0 |
| | | STATUS | | | | | | | 50 |

| Keysight Spectrum Analyzer | | | | | |
|------------------------------------|---------------|---------------|-------------------|---|------------------------------|
| enter Freq 1.910 | 0000000 GHz | SENSE:INT | Avg Type: Log-Pwr | 09:38:52 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| | PNO: Wide ** | #Atten: 30 dB | | DET A NNNNN | |
| Ref Offset 0 dB/div Ref 30.0 | | | Mkr1 | 1.910 000 GHz -21.26 dBm | Auto Tu |
| 20.0 | | | | | Center Fr |
| 0.00 | | ~ | | | 1.3100000000 |
| 20.0 | | " | | -13.00 dDn | Start Fr 1.909000000 G |
| 0.0 | | | | | |
| 50,0 | | | | | Stop Fr 1.911000000 G |
| tart 1.909000 GHz Res BW 39 kHz | #VB | | | Stop 1.911000 GHz .667 ms (1001 pts) | CF St 200.000 F Auto M |
| 1 N 1 f 2 3 4 5 | 1.910 000 GHz | -21.26 dBm | | | Freq Offs 0 |
| 6 7 8 | | | | | |
| 9 10 11 | | | | | |
| 0 | | | STATU | 1 | |

Band2_3MHz_QPSK_15_0_HighCH19185-1908.5

Band2 5MHz QPSK 1 0 LowCH18625-1852.5

| Keysight Spectrum Analyzer - Swept SA RL IIF SD D DC | SETGE-INT | ALIGN AUTO 02 | 10:03 PM Aug 10, 2018 | -0- 4- |
|---|----------------------|-------------------|--|----------------------------|
| enter Freq 1.85000000 | | Avg Type: Log-Pwr | THACE 1 2 3 4 5 6 TYPE A WANNY DET A NNNNN | Frequency |
| Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm | - Gentern | Mkr1 1.8 | 50 000 GHz -20.86 dBm | Auto Tun |
| 20.0 10.0 | | | 1.8 | Center Fre 50000000 GH |
| 20.0 | | | -1300 450 | Start Fre 49000000 GH |
| 40, D 50, D 60, D | | | 1.8 | Stop Fre 51000000 GH |
| start 1.849000 GHz Res BW 51 kHz | #VBW 150 kHz | Sweep 1.000 | 1.851000 GHz ms (1001 pts) | CF Ste 200.000 kH Ma |
| N 1 f 1.85* 2 - <td>0 000 GHz -20.86 dBm</td> <td></td> <td></td> <td>Freq Offse 0 H</td> | 0 000 GHz -20.86 dBm | | | Freq Offse 0 H |
| 10 | | | | |

Band2 5MHz QPSK 1 24 HighCH19175-1907.5

| R RL | ictrum Analyzar - Swept SA | | | | | | |
|------------------------|------------------------------------|---------------------------|---------------|----------------|----------|---|------------------------------|
| | IIF 50 D DO | | SENSE:17 | Avg Type: L | IGN AUTO | 08:53:46 PM Aug 10, 2018 TRACE 1 2 3 4 5 | Frequency |
| enter Fi | req 1.9100000 | PNO: Wide * IFGain!Low | #Atten: 30 dB | n | coB m | DET A NNNN | Ň |
| 0 dB/div | Ref Offset 13.9 d Ref 30.00 dBr | | | | Mkr1 1 | .910 000 GHz -20.16 dBm | |
| 20.0 10.0 | | | | | | | Center Fro 1.910000000 G |
| 10.00 | - | | - et | ~ | | -13 00 dDa | Start Fr 1.909000000 G |
| 30.0 40.0 50.0 | | | | | | ~~~~ | Stop Fr 1.911000000 G |
| Res BW | | #VB | W 150 kHz | | weep 1.0 | op 1.911000 GHz 00 ms (1001 pts) | CF St 200.000 k Auto M |
| | | .910 000 GHz | -20.16 dBm | FUNCTION FUNCT | ION WOTH | FUNCTION VALUE | Links |
| 2 3 4 5 | | | -20.10 4011 | | | | Freq Offs 0 |
| 6 7 8 9 10 | | | | | | | |
| 11 | | | | | | | |
| sa | | | | | STATUS | | |

Band2_5MHz_QPSK_25_0_LowCH18625-1852.5

| | | | | | | | Analyzer - S | | | |
|--|---|---------------|----------|----------------|-------------------------|---------|-------------------------|--------|-------|--------------|
| Frequency | 03:10:55 PM Aug 10, 2018 TRACE 1 2 3 4 5 6 | Type: Log-Pwr | A | Trig: Free Ru | SHz | 00000 G | 1.8500 | | | en Cen |
| A | DET A NNNN N | | | #Atten: 30 dB | PNO: Wide IFGain:Low | 1 | | | | |
| 0 GHz Center Freq 1.85000000 GHz Start Freq 1.84000000 GHz Start Freq 1.84000000 GHz Start Freq 1.84000000 GHz Start Freq 0 GHz CF Step 1.950000 GHz 200.00 Hz | 1.850 000 GHz -26.57 dBm | Mkr1 | | | | | of Offset 1 of 30.00 | | B/div | 10 d |
| | | | | | _ | | | _ | | 20.0 |
| 1.850000000 GH | | | - | | | | | - | | 10.0 |
| Charle Free | -13 03 421 | | | | | | | | 1 | 10.00 |
| | | _ | m | ↓ ¹ | | - | | _ | | 20 0 |
| | | | | | | | | - | | 30 0 40.0 |
| | | | | | | | | | | 40.0 50.0 |
| 1.851000000 GH | | | | | - | - | | | | 60.0 |
| CF Ste 200.000 kH | top 1.851000 GHz 000 ms (1001 pts) | | | 150 kHz | #VBW | _ | 0 GHz kHz | 4900 | | |
| Auto Ma | EUNICITION WALKE | EURCHONWOOR | FUNCTION | Ý | | X | | THE SE | MODE | 196 |
| Eren Offer | | | | -26.67 dBm | 000 GHz | 1.850 0 | - | 1 1 | N | 2 |
| 0 H | | | | | _ | | - | - | _ | 3 4 5 |
| | | | | | | | - | - | - | 6 |
| | | | | | | | - | - | _ | 8 |
| | | | | | | | | | | 10 11 |
| | | STATUS | _ | | | | | | - | < |

Band2_5MHz_QPSK_25_0_HighCH19175-1907.5

| | | | | | | | | SD D DC | pectrum An | | Ke R |
|---------------------------------|--|-----------|--------------|----------|----------|----------|------------------|----------------|------------------|-------|------------------|
| Frequency | PM Aug 10, 2018 HCE 1 2 3 4 5 6 TPE A WWWWW DET A NNNNN | TRAC | pe: Log-Pwr | Ave | Free Rur | Triat | GHz PNO: Wide | 1.91000000 | | | |
| Auto Tun | 000 GHz | 1.910 0 | Mkr1 | | n: 30 dB | | IFGain/Low | Offset 13.9 dB | | | |
| | .26 dBm | -23. | - | | _ | _ | | 30.00 dBm | Ref | B/div | 10 d |
| Center Fre 1.910000000 GH | | - | | _ | | - | - | | | | 20.0 10.0 |
| Start Fre | -10.00 dDm | | | | 1- | V | | | | | 0.00 -10,0 |
| 1.909000000 GH | | | | | - | 2000 | | | | | -20.0 |
| Stop Fre | | | - | | _ | - | _ | | | | 40.0 |
| 1.911000000 GH | | | | | | | | | | | -60.0 |
| CF Ste 200.000 kH Auto Ma | 1000 GHz (1001 pts) | .000 ms (| Sweep 1 | | Hz | 3W 150 k | #VE | Hz | 09000 / 51 kH | s BW | #Re |
| CIRCLE 111 | ION WALVE | FUNCT | UNCTION WOTH | FUNCTION | 6 dBm | -23.26 | 0 000 GHz | | 1 1 | N | MRR |
| Freq Offse | | | | | | | | | | | 2345 |
| | = | | | | | | | | | + | 6 7 8 9 |
| | | | | | | | | | | | 10 11 |
| | | s | STATUS | | | | | | | | 450 |

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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bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

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台灣檢驗科技股份有限公司



Band2 10MHz QPSK 1 0 LowCH18650-1855

| | ectrum Analyzer - 3 | | | | | |
|-----------------------------------|-------------------------|--|----------------|--|---|---------------------------------|
| Center F | | 000000 GHz | Trig: Free Run | Avg Type: Log-Pwr | 02:58:32 PM Aug 10, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| 10 dB/div | Ref Offset Ref 30.00 | | #Atten: 30 dB | Mkr1 | 1.850 000 GHz -15.59 dBm | Auto Tune |
| 20.0 10.0 | | | | | | Center Free 1.850000000 GH |
| -10.0 | | | and the second | and the second sec | 1000 000 | Start Free 1.849000000 GH |
| 40.0 | | and the second sec | | | | Stop Free 1.851000000 GH |
| Res BW | 9000 GHz 100 kHz | × | | Sweep 1 | Stop 1.851000 GHz .000 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1 N 2 3 4 5 6 7 | 1 1 | 1.850 000 GHz | -15.59 dBm | | | Freq Offse 0 H |
| 7 8 9 10 11 | | | | | | |
| 850 | | | | STATU | 5 | |

| Keynight Spectrum Ana | | | | | | | | | di 🕰 |
|---|----------------------------|-------------------------------|---|--------|-------------|---------|-----------|---|--------------------------------|
| RL III | 50 D DC | PND: Wide = | Trig: Free I | | Avg Type | RMS | TRAC | MAug 10, 2018 2012 3 4 5 6 20 A WWWWW ET A N N N N N | Frequency |
| 0 dB/div Ref 3 | ffset 13.9 dB 30.00 dBm | IFGein/Low | #Atten: 30 | | | | 1.910 0 | 00 GHz 35 dBm | Auto Tun |
| 00 20.0 10.0 | | | | | | | | | Center Fre 1.910000000 GH |
| 20.0 | | w. | | 123 | hours | Man | | -13.00 dDm | Start Fre 1.909000000 GH |
| 0.0 | | | | | | - Visi | mm | mm | Stop Fre 1.911000000 GH |
| tart 1.909000 0 Res BW 100 kH | | #VB | W 300 kHz* | FLIN | CTION I FUR | Sweep 1 | .000 ms (| 1000 GHz 1001 pts) | CF Ste 200.000 ki Auto M |
| 1 N 1 f 2 N 1 f 3 N 1 f 4 5 6 | 1.910 | 000 GHz 030 GHz 060 GHz | -14.335 dBr -14.183 dBr -13.956 dBr | n n | | | | | Freq Offs 01 |
| 7 8 9 10 | | | | | | | | | |
| sa | | | | | | STATU | s | | |

Band2_10MHz_QPSK_1_49_HighCH19150-1905

Band2_10MHz_QPSK_50_0_LowCH18650-1855

| RL IF 50 D DC | SENSE DIT | ALIGN AUTO 02:5 | 7:27 PM Aug 10, 2018 | |
|--|---|-------------------|---|-------------------------------|
| enter Freq 1.85000000 | O GHz PNO: Wide Trig: Free Run | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm | IFGainLow #Atten: 30 dB | | 0 000 GHz 25.29 dBm | Auto Tun |
| og 20.0 10.0 | | | | Center Fre |
| 20.0 | 1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | -13 00 dDn | Start Fre 1.849000000 GH |
| 40,0 | | | | Stop Free 1.851000000 GH |
| tart 1.849000 GHz Res BW 100 kHz | #VBW 300 kHz | Sweep 1.000 | .851000 GHz ms (1001 pts) | CF Ste 200.000 kH to Ma |
| | 50 000 GHz -25.29 dBm | | | Freq Offse 0 H |
| 8 | | | | |

Band2_10MHz_QPSK_50_0_HighCH19150-1905

| Frequency | 03:06:41 PM Aug 10, 2018 | ALIGN AUTO | | 507650:17 | | | IU 50 | _ | | R |
|---------------------|---|-------------|----------|----------------|----------------|----------|-------------------------|-----|-------|---------|
| requerrey | TRACE 1 2 3 4 5 6 TYPE A WINNIN DET A NNNNN | e: Log-Pwr | Ave | Trig: Free Run | HZ NO: Wide | 00000 G | q 1.910(| Fre | ter | en |
| Auto Tu | | | | #Atten: 30 dB | Gain!Low | iF | | | | |
| Auto Tu | 1.910 000 GHz -24.32 dBm | Mkr1 | | | | | Ref Offset Ref 30.00 | | B/div | 0 dl |
| Center Fr | | | | | | | | | | 20.0 |
| 1.910000000 G | | | | | | | | | ⊢ | 10.0 |
| | | | | | | | | | - | 0.00 |
| Start Fr | -13.00-031 | - | _ | | - | | | | ⊨ | 10.0 |
| 1.909000000 G | | | A | min | m | | - | | ⊢ | 20,0 |
| | | | | | - | - | - | | | 30.0 |
| Stop Free | | - | | | - | | | | | ŧ0.0 |
| 1.911000000 G | | | | | | | | | | 50.0 |
| | | | | | | | | | | |
| CF Ste 200.000 k | top 1.911000 GHz .000 ms (1001 pts) | Sweep 1. | | 300 kHz | #VE | | 000 GHz | | | |
| Auto M | FUNCTION WALUE | NOT ON MODE | FUNCTION | Ŷ | | × | | TRO | | |
| Freq Offs | | | | -24.32 dBm | DO GHZ | 1.910 00 | 1 | 1 | N | 2 |
| riequis | | | | | _ | | | | | 34 |
| | | | | | | | _ | | _ | 5 |
| | | | | | | | _ | | _ | 78 |
| | | | | | | | | | | 9 10 |
| | · · | | | | - | | - | | _ | 11 |
| | | STATUS | | | | | | | | 50 |

Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

| | 08 PM Aug 10, 2018 | 02:44:081 | ALTON AUTO | | NSE:3NT | 50 | | | malyzer - Sie 50 D | II. | pargine : |
|-----------------------|--------------------|-----------|------------|---------------------|------------|--------------------------|--------------------|------------------|-----------------------|-------|-----------|
| Frequency | TYPE A WWWW | THA | | Avg Typ Avg/Hold | | Trig: Free | PNO: Wide - | | | | |
| Auto Tun | | | | | 0 dB | #Atten: 3 | IFGain!Low | i | | | |
| Huto Tun | 0000 GHz | | Mkr1 | | | | | | Offset 13 30.00 | | B/div |
| Center Fre | | 1 | | | | - | - | | | | - |
| 1.850000000 GH | | | / | | | | - | | | | |
| Start Fre | -13 00 401 | | MARA | - | 1 | | | | | | |
| 1.849000000 GH | | | | | Developing | www.www.www.w | monorala | - angogenesering | white | ALLAN | 100 |
| | | | | - | | - | | | | | 111 |
| Stop Fre | | | | | | | | | | | |
| 1.851000000 GH | _ | | | | | - | - | | | | |
| CF Ste | 851000 GHz | Stop 1.85 | 5 | | | _ | | | GHz | 4900 | t 1.8 |
| 200.000 kH Auto Ma | s (1001 pts) | | | | | W 620 kHz | #VB | | | V 200 | |
| | ICTODA WALUE | FUNCT | CTION WOTH | CTION FU | Bm | -16,452 dE | 000 GHz | | | | N |
| Freq Offse | | | | | Bm Bm | -13.222 di -13.790 di | 958 GHz 924 GHz | 1.849 9 | | 1 | NN |
| 0 H | | | | | - | | _ | | | - | - |
| | | | | | - | | | | | | - |
| | | | | | - | | | | | - | |
| | | | | - | - | ** | - | | | | _ |
| | | s | STATUS | | | | | | | | |

Band2_15MHz_QPSK_1_74_HighCH19125-1902.5

| R RL | rsam Analyzar - Sv | | | | | | | | | |
|---|---------------------------|--|-----------------------|--|--------------|----------------------|--|-----------|------------------------|--------------------------------|
| RL | 10° 50 1 | | | | Bun | Avg Type Avg Hold | RMS | TRA | CE 1 2 3 4 5 6 | Frequency |
| 0 dB/div | Ref Offset 1 Ref 30.00 | 1F 3.9 dB | NO:Wide ↔ Gain/Low | #Atten: 30 | | | | 1.910 | 000 GHz | Auto Tur |
| og 80.0 | - | | | | | | | | | Center Fre |
| 0.0 | | Jon Marine | manging | - manual and | 184 Www.w | norm | an a | manutinge | na active | Start Fre 1.909000000 GH |
| 0.0 0.0 0.0 | | | | | | | | | | Stop Fre 1.911000000 GH |
| tart 1.909 Res BW 2 | 00 kHz | | #VB | V 620 kHz* | _ | | Sweep 1 | .000 ms | 1000 GHz (1001 pts) | CF Ste 200.000 ki Auto M |
| 22 000 000 1 N 2 N 3 N 4 N 5 6 7 | 1 1 1 1 | 1.910 00 1.910 01 1.910 02 1.910 02 | 4 GHz | -14.378 dB -13.316 dB -13.248 dB -13.536 dB | m m m | NCTION FU | DECEMBER | FUNCT | 604 WALUE | Freq Offs |
| 8 9 10 | | | | | | | | | | |

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台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band2 15MHz QPSK 75 0 LowCH18675-1857.5

| | | | | | | | trum Analyzer - Swep | | |
|---------------------------------|-------------------------|---------|------------|----------|---------------|---------------|---------------------------------|--------|--------------------|
| Frequency | PM Aug 10, 2018 | TRJ | ALIGN AUTO | Avg | Trig: Free Ru | | eq 1.850000 | | Cer |
| Auto Tun | 000 GHz | 1.850 | Mkr1 | | #Atten: 30 dB | | Ref Offset 13.9 Ref 30.00 di | 1B/div | 10 0 |
| Center Fre 1.850000000 GH | | | | | | | | | 20.0 10.0 |
| Start Fre 1.849000000 GH | -13.00 dDm | _ | Variation | | | | | | -10,0 |
| Stop Fre 1.851000000 GF | | | | | | | | | 40,0 60,0 |
| CF Ste 200.000 kF Auto Ma | 51000 GHz (1001 pts) | .000 ms | Sweep 1 | FUNCTION | 620 kHz | #VB | 9000 GHz 200 kHz | | Re |
| Freq Offse 0 F | | | | | -25.18 dBm | 1.850 000 GHz | 1 | N 1 | 1234567 |
| | | | | | | | | | 8 9 10 11 |
| | | s | STATUS | | | | | | 85G |

| enter Freq 1.910000 | | SENSE:INT | ALIGN AUTO | | 10,2018 2 3 4 5 6 NNNNN |
|-------------------------------------|---------------|--|-------------------|---|-------------------------------|
| | | Trig: Free Run | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 | Frequency |
| Ref Offset 13.9 | | #Atten: 30 dB | Mkr1 | GHz dBm Center Freq | |
| 0 dB/div Ref 30.00 dE | 3m | | | -26.61 dBm | |
| 10.0 | | | | | 1.910000000 Gi |
| 20.0 | monter | ······································ | | -13.00 401 | Start Fr 1.909000000 G |
| 0.0 | | | | | Stop Fr 1.911000000 G |
| tart 1.909000 GHz Res BW 200 kHz | #VB | W 620 kHz | | Stop 1.911000 GHz .000 ms (1001 pts) | CF St 200.000 k Auto M |
| N 1 T 2 3 4 5 | 1.910 000 GHz | -26.61 dBm | | | Freq Offs 0 |
| 6 7 8 9 0 | | | | | |
| 11 | - | | ETATU | | |

Band2_15MHz_QPSK_75_0_HighCH19125-1902.5

Band2_20MHz_QPSK_1_0_LowCH18700-1860

| | rum Analyzer - Swep | | - | | | | | | | |
|-------------------------|--------------------------------|-------------------------------------|------|--|--------|-----------|------------|-----------------|---------------------------------|----------------------|
| RL | NF 50 D | DC. | | | SE:INT | | Log-Pwr | TRA | MAug 10, 2018 2E 1 2 3 4 5 6 | Frequency |
| | | PNO | Fest | #Atten: 30 | | | | | | |
| | Ref Offset 13.9 Ref 30.00 d | | | | | | Mkr5 | 1.849 s -13. | 92 GHz 64 dBm | Auto Tune |
| 20.0 | | | | | _ | | | | | Center Free |
| 10.0 | | | | | | | | - | | 1.85000000 GH |
| 0.0 | _ | | | A32/ | 5 | WHANNIN W | Angles and | - | -13 00 dDm | Start Fre |
| 0.0 | where the monthly | whicher | - | and the state of t | 14 | | | | | 1.849000000 GH |
| 0.0 | | | | | | | | | | Stop Free |
| 50.0 | | | _ | | | | | | | 1.851000000 GH |
| tart 1.849 Res BW 3 | | | | 1.0 MHz | | | s | top 1.85 | 1000 GHz 1001 pts) | CF Ste 200.000 kH |
| Res BW 3 | | × | #VBW | 1.0 MHz | FUN | | sweep 1 | | | Auto Ma |
| 1 N 1 2 N 1 | 1 | 1.850 000 | GHz | -16.80 dB -13.60 dB | m | | | | | Freq Offse |
| 3 N 1 4 N 1 5 N 1 | 1 | 1.849 888 1.849 972 1.849 992 | GHz | -14.04 dB -14.40 dB -13.64 dB | m | _ | | | | 0 H |
| 6 | - | 1.040 002 | | -10.04 00 | | | | | | |
| 8 9 0 | | | _ | | - | - | | | | |
| 1 | | | 1 | | - | - | | | | |
| is l | | | | | | | STATUS | | | |

Band2 20MHz QPSK 1 99 HighCH19100-1900

| | | m Amelyzer - S | | | | | | | | | ug 10, 2018 1 2 3 4 5 6 A WWWW A NNNNN | |
|---------|-----------|-------------------------|----------|---|--------------|-----------|----------|--------------|--------------------|-------------------|---|-----|
| RL | | 10 50 | | da. | SERS | E:INT | Ave Tu | pe: Log-Pwr | 02:40:021 | MAug 10, 2018 | Frequency | |
| enter | Fred | 1.9100 | 00000 GH | NO: Fast ++ | Trig: Free P | | AAR 13 | be cogerwr | T | CP A MANAGEMENT | | _ |
| | | | IF | GaintLow | #Atten: 30 | dB | | | 0 | ETA NNNNN | | |
| 0 dB/di | | ef Offset 1 ef 30.00 | | | | | | Mkr1 | | 000 GHz 81 dBm | Auto Tr | ur |
| og | | | | | | | | | | | Center F | |
| 10.0 | | | | | | | | | | | 1.910000000 | |
| | | 1 | | | | | | | | | 1.910000000 | G |
| 1.00 | | | M | 1 | | • | 1 | - | | | | _ |
| 0.0 | | | Malme 14 | The work of the | Workink | · | | | | -13.00 dDm | Start F | 'n |
| 20.0 | | | | - • • • • • • • • • • • • • • • • • • • | March | A distant | A ANALAS | mation in | | | 1.909000000 | G |
| 30.0 | | | _ | | | | 1.1.1 | . Lord and | specify the factor | manher wet | | |
| 0.0 | | | | | | | | | | . 1 s | | - |
| 50.0 | | | | | | | | | | | Stop F | |
| | | | | | | | | | | | 1.911000000 | Gł |
| 60.0 | | | | - | | | | | | | | - |
| tart 1. | 9090 | 00 GHz | - | - | | | _ | | Stop 1.91 | 1000 GHz | CFS | te |
| Res B | | | | #VBV | V 1.0 MHz | | | | | (1001 pts) | 200.000 | k |
| NR MILE | NUMBER OF | | × | | * | ELIS | | UNCTION WOTH | EURIT | IN VALUE | Auto 1 | M |
| 1 N | 1 | | 1.910 00 | 0 GHz | -15.81 dBr | | | | | | | _ |
| 2 | | _ | | | | - | | | | | Freq Off | Ts |
| 4 | | | | | | | | | | | | 0 1 |
| 5 | | _ | | | | - | | | | 6 | | |
| 7 | | _ | | - | | - | | | | | | |
| 8 | | _ | | | | - | | | | | | |
| | | - | | | | - | | | | | | |
| 10 | | - | | | | - | - | | | | | |
| 1 | | | | | | | | | 1 | | | _ |
| 150 | | | | | | | | STATU | s | | | |

Band2_20MHz_QPSK_100_0_LowCH18700-1860

| Frequency | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | | ALIGN AUTO | | Trig: Free Ru | PNO: Fast | D DC | | Fre | | en |
|---------------------------------|---|-----------------|------------|----------|---------------|-----------|--|------------------------|-----|-------|------|
| Auto Tun | 0 000 GHz 26.65 dBm | kr1 1.850 -2 | Mkr | | #Atten: 30 dB | FGein:Low | | Ref Offset Ref 30.0 | | B/div | 0 di |
| Center Fre 1.850000000 GH | | | _ | | | | | | | | 0.0 |
| Start Fre 1.849000000 GH | -13.00 4201 | - | marchen | ~~~~ | | | | | | | |
| Stop Fre 1.851000000 GH | | | | | | - | | | | | 0.0 |
| CF Ste 200.000 kH Auto Ma | .851000 GHz ns (1001 pts) | o 1.000 m | | FUNCTION | 1.0 MHz | #VB | × | 00 GHz 0 kHz | | s Bl | Re |
| Freq Offse 0 H | | | | | -26.65 dBm | 100 GHz | | | 1 | | |
| | | | | | | | | | | _ | 7890 |

Band2_20MHz_QPSK_100_0_HighCH19100-1900

| | ectrum Analyzer - | | | | | | | | |
|--------------------------|------------------------|-----------|----------------|---------------|----------|-----------------|-------------------------|---|---|
| RL Center Fi | | 0000000 G | Hz NO: Fast | Trig: Free Ru | A | vg Type: Log-Pw | TRAC | MAug 10, 2018 26 1 2 3 4 5 6 26 A WWWWW ET A NNNNN | Frequency |
| 0 dB/div | Ref Offset Ref 30.0 | 13.9 dB | Gain:Low | #Atten: 30 dł | 3 | Mkr | 1 1.910 0 | | Hz Bm Center Freq 1.91000000 GHz |
| 10.0 | | | | | | | | | |
| 0.0 | - | - | hanne | •1 | | | | -13 00 dDm | Start Fre 1.909000000 GH |
| 10,0 50,0 50,0 | | | | | | | | | Stop Fre 1.911000000 GH |
| Res BW | 9000 GHz 300 kHz | | #VB | W 1.0 MHz | | | Stop 1.91 1.000 ms (| 1001 pts) | CF Ste 200.000 kl Auto M |
| 2 2000 11 2 3 4 | | 1.910.00 | DO GHZ | -27.78 dBm | FUNCTION | FUNCTION WO | HEUNICTO | IRI WALUE | Freq Offs |
| 5 6 7 8 9 | | | | | | | | | |
| 11 | 11 | | | ** | | STAT | - | · · · | |

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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台灣檢驗科技股份有限公司



Band4 1 4MHz QPSK 1 0 LowCH19957-1710.7

| | | | | | | am Analyzar - Swept | right Spec | |
|--------------------------------|---|------------|----------|---------------|----------------------|---|---------------|------------------------------|
| Frequency | TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN | e: Log-Pwr | Ave | Trig: Free Ru | 00000 GHz | q 1.710000 | er Fr | Cen |
| Auto Tur | 710 000 GHz -20.14 dBm | Mkr1 | | #Atten: 30 dB | IFGain/Low 3.9 dB | Ref Offset 13.9 Ref 30.00 dB | Vdiv | 0 dl |
| Center Fre 1.710000000 GP | | | r.m. | | | | | .og 20.0 10.0 |
| Start Fre 1.709000000 GP | -13.00 dBn | | | <u>+</u> | | | | 0.00 10.0 20.0 30.0 |
| Stop Fre 1.711000000 GH | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | m | 40,0 50,0 |
| CF Sto 200.000 ki Auto M | p 1.711000 GHz 0 ms (1001 pts) | Sweep 6. | FUNCTION | 3W 62 kHz | #VE | | 1.709 BW 2 | Re |
| Freq Offs 01 | | | | -20.14 dBm | 1.710 000 GHz | 1 | N 1 | 23456 |
| | | | | | | | + | 7 8 9 10 |
| | | STATUS | | | | | | 50 |

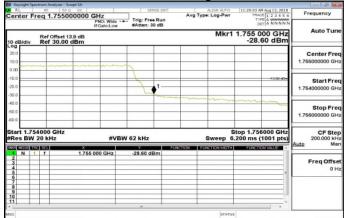
| 0 | | | | | | Amalyzar - Swept SA | | | |
|---------------------------|---|---------------|----------|----------------|--------------------|---------------------|---------------|-------|-----|
| Frequency | 11:17:52 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW | Type: Log-Pwr | Ave | Trig: Free Run | 0 GHz PNO: Wide | 1.755000000 | Freq | | er |
| Auto Tu | DETANNNN | | | #Atten: 30 dB | IFGain!Low | | | | _ |
| | 1.755 000 GHz -23.02 dBm | MKr1 | | | | f 30.00 dBm | R | B/div | 0 d |
| Center Fr | | | | | | | | | .0g |
| 1.755000000 G | | | | 7 | (m | | | | 0.0 |
| | -13.00 401 | | | 4 | 1 | | | 1 | 0.0 |
| Start Fr 1,754000000 G | -13.00 4019 | | | 1 | | | | | 0.0 |
| 1.704000000 | | _ | | | | | | | 0.0 |
| Stop Fr | | the second | - m | | | | | - | 0.0 |
| 1.756000000 G | | | | | | | | 1 | 0.0 |
| | | | | | | | | | |
| CF St 200.000 k | top 1.756000 GHz 200 ms (1001 pts) | | | 62 kHz | #VBV | 0 GHz Hz | 75400 W 20 | | |
| Auto M | FUNCTION WALKE | FUNCTION WOTH | FUNCTION | -23.02 dBm | 755 000 GHz | | | N | |
| Freq Offs | | | | -20.02 0000 | ou ouo onia | | | | 23 |
| 0 | | | | | | | | _ | 45 |
| | | | | | | | | | 67 |
| | | | | | | | | | 89 |
| | · · · | | | | | | | | 0 |
| | | STATUS | | | | | | _ | s |

Band4 1 4MHz QPSK 1 5 HighCH20393-1754.3

Band4 1 4MHz QPSK 6 0 LowCH19957-1710.7

| RL III 50 D DC Center Freq 1.71000000 | PNO: Wide Trig: Free Run | Aug Type: Log-Pwr | 11:11:38 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN | Frequency |
|--|--------------------------|-------------------|---|---------------------------------|
| Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm | IFGsin:Low #Atten: 30 dB | Mkr1 1 | .710 000 GHz -27.67 dBm | Auto Tun |
| 0g 20.0 10.0 | | | | Center Fre 1.710000000 GH |
| 10.0 20.0 30.0 | 1 | | -13 00 401 | Start Free 1.709000000 GH |
| 40.0 | | | | Stop Fre 1.711000000 GH |
| Start 1.709000 GHz Res BW 20 kHz | #VBW 62 kHz | | op 1.711000 GHz 00 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1 N 1 f 1.7 2 3 4 5 5 | 10 000 GHz77.67 dBm | | 6 | Freq Offse 0 H |
| 6 7 8 | | | | |

Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

| Keysight Spectrum Analyzer - S | | | i income | | |
|------------------------------------|-------------------------|----------------|--------------------------------|---|-----------------------|
| Center Freq 1.7100 | 000000 GHz | Trig: Free Run | Avg Type: Log-Pwr | 10:57:04 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| | PNO: Wide IFGain:Low | #Atten: 30 dB | | DET A NNNN | Auto Tun |
| Ref Offset 1 0 dB/div Ref 30.00 | | | Mkr1 | 1.710 000 GHz -15.78 dBm | Auto Tun |
| 20.0 | | | | | Center Fre |
| 10.0 | | | | | 1.710000000 GH |
| D, D | | ↓1 | 2.00 | -13.00 dDm | Start Fre |
| 20.0 | | | | | 1.709000000 GH |
| 0.0 | | | | | Stop Fre |
| 50,0 | | | | | 1.711000000 GH |
| tart 1.709000 GHz | | | | Stop 1.711000 GHz | CF Ste |
| Res BW 39 kHz | #VB\ | V 120 kHz | Sweep 1 NCHON FUNDERCOMMONE | .667 ms (1001 pts) | 200.000 ki Auto Ma |
| 1 N 1 f | 1.710 000 GHz | -15.78 dBm | | | |
| 2 3 4 5 | | | | | Freq Offse |
| 6 7 8 | | | | | |
| 9 | | | | | |
| | | | | | |
| 50 | | | STATU | s | |

Band4_3MHz_QPSK_1_14_HighCH20385-1753.5

| | | -0- 4 ² |
|-------------------|------------------------|-----------------------------|
| | -Pwr TRACE 1 2 3 4 5 4 | Frequency |
| | Mkr1 1.755 000 GHz | Auto Tune |
| | | |
| -13.00 4019 | | Start Fre 1.754000000 GH |
| 1.75 | 1.75 | Stop Fre 1.756000000 GH |
| Auto | ep 1.667 ms (1001 pts) | CF Ste 200.000 ki |
| AT FUNCTION WALVE | 4 WOTH FUNCTION WALVE | |
| | | Freq Offs 01 |
| | | |
| | | |
| rus | STATUS | |

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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bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

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台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band4 3MHz QPSK 15 0 LowCH19965-1711.5

| Reysight Spectrum Anal | yzer - Swept SA | SENSE:DUT | ALIGN AUTO | | |
|------------------------|--------------------------|---------------|-----------------------|-----------------------------|----------------------------|
| | 10000000 GHz | | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 | |
| | PNO: Wide IFGain/Low | #Atten: 30 dB | | | Auto Tune |
| | Tset 13.9 dB 0.00 dBm | | Mkr1 | 1.710 000 GHz -26.46 dBm | GHz Auto Tune |
| 0.0 | | | | | Center Fre |
| 0.0 | | | | | 1.710000000 GH |
| 0.0 | | / | | -13.00 dDm | Start Fre |
| 0.0 | | 1 | | | 1.709000000 G |
| 0.0 | | | | | |
| 0.0 | | | | | Stop Fre 1.711000000 Gi |
| tart 1.709000 C | | | | Stop 1.711000 GHz | CF Ste |
| Res BW 39 kHz | | 3W 120 kHz | | 1.667 ms (1001 pts) | 200.000 ki Auto M |
| R MODE THE SEC. | × 1.710 000 GHz | -26.46 dBm | INCTION FUNCTION WOTH | FUNCTION VALUE | Auto Mi |
| 2 3 4 | | | | | Freq Offs |
| 5 | | | | * | 01 |
| 7 8 9 | | | | | |
| 0 | | | | | |
| | | + | TATU | | |

| 15 AM Aug 13, 2018 TARACE 1 2 3 4 5 6 TYPE 4 COMMANN NO. | | | | | | inalyzer - Swept SA | | | |
|---|---|-----------------|--------|---------------|---------------------------|-----------------------------|--------------|-------|------|
| Frequency | 11:05:35 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | g Type: Log-Pwr | | SENSE:11 | 00 GHz | 50 D DC | Freq | nter | |
| | DETANNNNN | | n | #Atten: 30 dB | PNO: Wide - IFGain:Low | | | | |
| GHz Auto Tune | 1.755 000 GHz -25.94 dBm | Mkr1 | | | | Offset 13.9 dB 30.00 dBm | | dB/di | 10 d |
| Contos Fr | | | | | | | | · I | .0g |
| 1,755000000 G | | | | | | | | | 10.0 |
| | | | | - | | ~~~~~~ | ~~~~ | | 1.00 |
| Start Fr | -13 00 dDm | | | 1 | | | | - | 0.0 |
| 1.754000000 G | | _ | | | | | | 0 | 0 0 |
| | | | | | | | | 0 | 0.0 |
| Stop Fr | | _ | - | | | | | 1 | 0.0 |
| 1.756000000 G | | | _ | | | | | | 50,0 |
| | | | | | | | | ° — | 0.0 |
| CF St 200.000 # | top 1.756000 GHz .667 ms (1001 pts) | Sweep 1. | | V 120 kHz | #VB | GHz Hz | 7540 W 39 | | |
| AUTO N | FUNCTION VALUE | FUNCTION WOTH | FUNCTI | -25.94 dBm | 755 000 GHz | | 1 | N | 1 |
| Freq Offe | | | | | | | | | 2345 |
| | | | | | | | | | 678 |
| | | | | | | | | | 9 |
| | | + + | | | | | | - | 믵 |
| | | STATUS | | | | | | | 53 |

Band4 3MHz QPSK 15 0 HighCH20385-1753.5

Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

| Keysight Spectrum Analyzer - Swe | | | | | - C |
|---|-----------------------------|----------------|-------------------|---|-----------------------------------|
| Center Freq 1.71000 | DC 0000 GHz PNO: Wide | Trig: Free Run | Avg Type: Log-Pwr | 10:46:36 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | Frequency |
| Ref Offset 13. 10 dB/div Ref 30.00 d | IFGain:Low 9 dB | #Atten: 30 dB | Mkr1 | 1.710 000 GHz -21.68 dBm | Auto Tune |
| 00 20.0 10.0 | | | | | Center Fred 1.710000000 GH: |
| 20.0 | | | | -1300 dDm | Start Free 1.709000000 GH |
| 40.0 50.0 60.0 | | | | | Stop Free 1.711000000 GH |
| Start 1.709000 GHz Res BW 51 kHz | #VBW | / 150 kHz | | top 1.711000 GHz 000 ms (1001 pts) | CF Step 200.000 kH Auto Mar |
| I N 1 f 2 - - - 3 - - - 4 - - - 5 - 6 - 7 8 - - | 1.710 000 GHz | -21.68 dBm | | | Freq Offse 0 H |
| 9 10 11 | | | ITATUS | | |

Band4 5MHz QPSK 1 24 HighCH20375-1752.5

| Keynight Spectrum Analyzer - Swept S RL IIF SD D D | | SENSE:3NT | ALTON AUTO | 10:53:51 AM Aug 13, 2018 | |
|---|--------------------|----------------|------------------------|---|---------------------|
| enter Freq 1.7550000 | PNO: Wide | Trig: Free Run | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| | IFGain!Low | #Atten: 30 dB | | | Auto Tun |
| 0 dB/div Ref 30.00 dB | | | Mkr1 | 1.755 000 GHz -23.07 dBm | |
| 20.0 | | | | | Center Fre |
| 10.0 | | | | | 1.755000000 G |
| 0.00 | / | | | | |
| 10.0 | | ~ · | | -13.00 dDm | Start Fr |
| 20.0 | | ¥. | | | 1.754000000 G |
| 30.0 | | | | | |
| 40.0 | | | | ~ | Stop Free |
| 50.D | | | | | 1.756000000 G |
| 60.0 | | | | | |
| tart 1.754000 GHz Res BW 51 kHz | #VBV | / 150 kHz | Sweep 1 | top 1.756000 GHz 000 ms (1001 pts) | CF Ste 200.000 k |
| | x 1.755 000 GHz | -23.07 dBm | FUNCTION FUNCTION WOTH | FUNCTION VALUE | Auto M |
| 2 | 1.755 000 GHz | -23.07 GBm | | | Freq Offs |
| 4 | | | | | 01 |
| 5 6 7 | | | | · · · · · · · · · · · · · · · · · · · | |
| 8 | | | | | |
| 9 | | | | | |
| 11 | | | | | |
| | | | STATUS | | |

Band4_5MHz_QPSK_25_0_LowCH19975-1712.5

| | | | - | | | - | | | nalyzer - Sv | | | |
|---------------------------------|--------------------|----------|---------------|----------|--------|-----------|-----------|------------|-------------------|-------|--------|----------|
| Frequency | AM Aug 13, 2018 | TRA | ALIGN AUTO | Avg | NSE:IN | | Hz | D DC 00000 | | req 1 | | Cer |
| Auto Tun | DET A NNNNN | | | | lo dB | #Atten: 3 | PNO: Wide | | | | | |
| | 000 GHz .41 dBm | 1.710 (| MKr1 | | | | | | Offset 1 30.00 | | B/div | |
| Center Fre | | | _ | | | _ | _ | _ | | | | 20.0 |
| 1.710000000 GH | | | | - | | | | | | | | 10.0 |
| Start Fre | -10.00 dDm | | _ | | | | _ | _ | | _ | | 10,0 |
| 1.709000000 GH | | | | 1 | 1- | | | | | | | 20.0 |
| Stop Fre | | | _ | | | | | | | ~ | | 40.0 |
| 1.711000000 GH | | | - | | - | | - | | | + | | 60.0 |
| 05.01- | 11000 GHz | ton 1 71 | | | | | | | 04- | 0000 | t 1.70 | |
| CF Ste 200.000 kH Auto Ma | (1001 pts) | .000 ms | Sweep 1 | | | V 150 kHz | #VB | | | 51 kł | s BW | #Re |
| CMTK MIN | TION WALVE | FUNCT | EURCTICA WOTH | FUNCTION | Bm | -28.41 di | 000 GHz | 1.710 | | 1 | N | 1 |
| Freq Offse | | | | | + | | | | | | + | 234 |
| 01 | | | | | | | _ | | | | | 5 |
| | | | | | + | | - | | | + | + | 7 8 9 |
| | | | | | | | | | | | | 10 11 |
| | | s | STATUS | | | | | | | | _ | * |

Band4_5MHz_QPSK_25_0_HighCH20375-1752.5

| Keysight Spectrum Analyzer - Sw | | | | | -o- 4- 🛋 |
|---|---------------|----------------|----------------|---------------------------------------|---------------------------------|
| Center Freq 1.75500 | 00000 GHz | Trig: Free Run | Avg Type: Log- | Pwr TRACE 1 2 3 4 | Frequency |
| Ref Offset 13 10 dB/div Ref 30.00 | | #Atten: 30 dB | M | Ikr1 1.755 000 G -27.14 dE | Hz Auto Tun |
| 20.0 10.0 | | | | | Center Fre 1.755000000 GH |
| 10.0 20.0 30.0 | | e 1 | | -13.00 | 30m Start Fre 1.754000000 GH |
| 40.0 60.0 60.0 | | | | | Stop Fre 1.756000000 GH |
| Start 1.754000 GHz #Res BW 51 kHz | #VB | W 150 kHz | Swee | Stop 1.756000 G p 1.000 ms (1001 p | |
| 1 N 1 f 2 3 4 5 6 7 7 8 9 10 | 1.755 000 GHz | -27.14 dBm | | | Freq Offse 0 H |
| 11 | | | + | - | - |
| 85G | | | | STATUS | |

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台灣檢驗科技股份有限公司



Band4 10MHz QPSK 1 0 LowCH20000-1715

| | | | | | | | | | inalyzar - So | | | |
|---------------------------------|--|-----------|------------|----------|----------|----------|-------------------------|---------|---------------|-------|----------------|-------------------------------|
| Frequency | H Aug 13, 2018 2 1 2 3 4 5 6 2 A NNNNN | TRAC | e: Log-Pwr | Avg T | Free Run | Teint | GHz PNO: Wide | 00000 G | .71000 | req 1 | | len |
| Auto Tun | 00 GHz 99 dBm | 1.710 0 | Mkr1 | | n: 30 dB | | PNO: Wide IFGain/Low | 3.9 dB | Offset 13 | | B/div | 10 di |
| Center Fre 1.710000000 GH | | 1 | / | | | _ | | | | | | 20.0 10.0 |
| Start Fre 1.709000000 GH | -ingan | | | | , et | ~~~~ | m | | | _ | | 10.00 10.0 20.0 30.0 |
| Stop Fre 1.711000000 GH | | | | | | | | mm | nort | ~ | ~~~ | 40.0 60.0 |
| CF Ste 200.000 kł Auto Ma | 1000 GHz 1001 pts) | .000 ms (| Sweep 1. | FUNCTION | Hz | BW 300 k | #VE | × | kHz | 100 | t 1.70 s BW | Re |
| Freq Offse | | | | | 9 dBm | -15.9 | 0 000 GHz | 1.710 (| | 1 | N 1 | 1 2 3 4 5 6 |
| | | | | | | | | | | | | 6 7 8 9 10 11 |
| | | | STATUS | | | | | | | - | | 150 |

| Keysight Spectrum Analyzer - Sw | | _QPSK_1 | _49_HighCl | 120350-175 | 0 |
|---|--------------------------------|--------------------------|-------------------|---|---------------------------------|
| RL 107 50 1 | PNO: Wide ++ | Trig: Free Run | Avg Type: Log-Pwr | 10:42:43 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW | Frequency |
| Ref Offset 13 10 dB/div Ref 30.00 | IFGain:Low | #Atten: 30 dB | Mkr1 | 1.755 000 GHz -15.65 dBm | Auto Tun |
| -og 20.0 10.0 10.0 | | | | | Center Fre 1.755000000 GH |
| 10.0 ymm | muse | menting. | m | -13 00 421 | Start Fre 1.754000000 GH |
| 40.0 50.0 50.0 | | | | | Stop Fre 1.756000000 GH |
| Res BW 100 kHz | #VB) | V 300 kHz | | top 1.756000 GHz 000 ms (1001 pts) | CF Ste 200.000 kF Auto Ma |
| N 1 f 2 N 1 f 3 | 1.755 000 GHz 1.755 010 GHz | -16.65 dBm -14.32 dBm | | + | Freq Offs 0 F |
| 9 10 11 (| | | STATUS | | |

Band4 10MHz QPSK 50 0 LowCH20000-1715

| RL IU 50 D DC | SENSE:INT | ALIGN AUTO 10 | 32:42 AM Aug 13, 2018 | |
|--|--|-------------------|---|----------------------------------|
| Center Freq 1.71000000 | PNO: Wide Trig: Free Run IFGsiniLow #Atten: 30 dB | Avg Type: Log-Pwr | THACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm | Possilicow writen or op | | 10 000 GHz -27.52 dBm | Auto Tune |
| 0g 20.0 10.0 | | | | Center Free 1.710000000 GH |
| 10.0 20.0 30.0 | i | mart | -13 00 45 1 | Start Free 1.709000000 GH |
| 40.0 | | | [| Stop Free 1.711000000 GH |
| Start 1.709000 GHz Res BW 100 kHz | #VBW 300 kHz | Sweep 1.000 | 1.711000 GHz ms (1001 pts) | CF Stej 200.000 kH Auto Ma |
| | 10 000 GHz -27.52 dBm | | 6 | Freq Offse 0 H |
| | | | | |

Band4 10MHz QPSK 50 0 HighCH20350-1750

| RL | g 1.75500000 | 0 GHz PNO: Wide | SERGE IN | Avg | ALIGN AUTO | 10:43:31 AM Aug 13, 201 TRACE 1 2 3 4 5 TYPE A WWW DET A NNNN | Frequency |
|--|--------------------|--------------------|---------------|----------|---------------|--|------------------------------|
| | Ref Offset 13.9 dB | IFGain/Low | #Atten: 30 dB | | Mkr1 | 1.755 000 GH -23.69 dBr | z Auto Tur |
| 0 dB/div 20.0 10.0 | Ref 30.00 dBm | | | | | -23.09 081 | Center Fro 1.755000000 Gi |
| 0.0 | | - Anon | nonnen | v | | -13 00 40 | Start Fr 1.754000000 G |
| 0.0 | | | | | | | Stop Fr 1.756000000 G |
| tart 1.754 Res BW 1 | 00 kHz | #VB | W 300 kHz | | Sweep 1 | Stop 1.756000 GH .000 ms (1001 pts | |
| 2 000 020 1 N 1 2 3 4 5 | | 55 000 GHz | -23.69 dBm | FUNCTION | FUNCTION WOTH | FUNCTION WALVE | Freq Offs 0 |
| 6 7 8 9 | | | | | | | |
| ii | | | | | STATU | | |

Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

| | M Aug 11, 2018 | 10:17:14 4 | ALTON AUTO | | USE-INT | 1 50 | | | Analyzer - Sive | 117 | | R |
|---------------|-------------------|------------|------------|------------|---------|-------------------------------------|--------------------------|----------------------------------|-----------------|--------|-------|----|
| Marker | CE123456 | TRAC | RMS | Avg Typ | Run | Trig: Fre | | | 1.04.0 | | | _ |
| Select Marker | ET A NNNNN | D | 100/100 | CARING . | | #Atten: 3 | PNO: Wide = FGain!Low | | | | | |
| 1 | 000 GHz 85 dBm | 1.710 0 | Mkr1 | | | | | | Offset 13 | | B/div | dł |
| Norm | | / | | | | | | | | | _ | 0 |
| | | | week | | 1 | A3A2 | - | | | _ | _ | |
| Delt | -13.00 dDm | | n : | turn | www. | www.han | www | horality | mm | m | Allah | 0 |
| | | | | | | | - | | | ~ | | 0 |
| Fixed | | | | | | | - | | | | | 0 |
| | 1000 GHz | | | | | N 620 kHz | | | GHz | 200 | | |
| 0 | (1001 pts) | | sweep 1. | CTION FI | FU | Ŷ | | x | | 10 100 | 2010 | |
| Properties | | | | _ | 3m | -13.585 d -13.621 d -14.227 d | 50 GHz | 1.710 00 1.709 95 1.709 88 | | 1 | ZZZ | |
| | | | | | | | _ | | | - | - | |
| Moi 1 of | | | | - | | | - | | | + | + | |
| | · · | | | - | - | | - | | _ | - | - | 4 |
| | | | STATUS | | | | | | | | | |

Band4_15MHz_QPSK_1_74_HighCH20325-1747.5

| 0.4 | | | | | | _ | | Analyzer - S | | | M Ke |
|-----------------------------|---|--------------|----------------|-----------------|--------------------|---------------------------|---------|-------------------------|--------------|-------|--------------|
| Frequency | 10:26:59 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | RMS | Ave To | Free Run | | | | UF 50 | - | | ĸ |
| Auto Tur | DET A NNNN N | | Avgino | : 30 dB | | PND: Wide == FGain:Low | | | | | |
| AutoTur | 1.755 000 GHz -14.784 dBm | Mkr1 | | | | | | of Offset 1 of 30.00 | | B/div | 0 d |
| Center Fre | | - | _ | | | _ | _ | ~ | ~ | | 30.0 |
| 1.755000000 GH | | | - | | - | - | | | | | 0.0 |
| | -13.00 a51 MJNymmyNJNY | | | 1:34 | | manner. | No. | | | | 0.0 |
| Start Fre 1.754000000 GH | ANT Marine a land | - | and the second | Charloch !! | apartalit | 4.0 | - | | | | 20.0 |
| | and Maganda Da | | | _ | - | | | | | | 30.0 |
| Stop Fre | | | | - | | | | | | 1 | 40.0 |
| 1.756000000 GH | | | | | | | | | | | 50,0 50,0 |
| CF Ste | top 1.756000 GHz | | | | | | | 0 GHz | 7540 W 20 | | |
| 200.000 kH Auto Ma | 000 ms (1001 pts) | | NOTION | HZ [*] | W 620 kł | #VB | | | | | |
| | FORT CONTRACTOR | C CONVICTION | and them in | | -14.784 | 00 GHz | | | 1 | N | 1 |
| Freq Offs | | | | dBm | -13.303 | 16 GHz 40 GHz | 1,755 0 | | | N | 23 |
| 01 | | | | | -13.268 -13.467 | 70 GHz 82 GHz | | | 1 | NN | 4 |
| | | | | - | | | | - | | _ | 6 7 8 |
| | | | | - | | - | | - | | _ | 9 |
| | · · | - | - | - | | 1 | | - | | _ | 11 |
| | | STATUS | | | | | | | | | 50 |

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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台灣檢驗科技股份有限公司



Band4_15MHz_QPSK_75_0_LowCH20025-1717.5

| Frequency | 10:18:35 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | ALIGH AUTO | Frig: Free Run Atten: 30 dB | 000000 GHz PNO: Wide * IEGainiLow | req 1.710 | | n R Cen |
|---------------------------------|---|-------------------------|--------------------------------|---|-------------------------|-------|------------------------------|
| Auto Tur | 1.710 000 GHz -28.47 dBm | Mkr1 | | | Ref Offset Ref 30.00 | B/div | 10 d |
| Center Fre 1.710000000 GF | | | | | | | 20.0 |
| Start Fre 1.709000000 GF | -1300-001 | and and a second second | 1 | | | | 10,0 10,0 20,0 30,0 |
| Stop Fre 1.711000000 GH | | | | | | | 40.0 50.0 60.0 |
| CF Ste 200.000 kF Auto Ma | top 1.711000 GHz .000 ms (1001 pts) | Sweep 1. | 20 kHz | #VB | 9000 GHz 200 kHz | | Re |
| Freq Offs 0 F | | | 28.47 dBm | 1.710 000 GHz | 1 | N 1 | 12345 |
| | | | | | | | 6 7 9 10 |
| | | STATUS | + | | | | * |

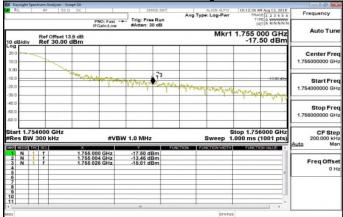
| | | | | | | | | | nalyzar - S | | | |
|-------------------------------|---------------------------------|-----------|------------|----------|-----------|----------|-------------------------|---------|-------------|-------|-------|------------------------------|
| Frequency | # Aug 11, 2018 # 1 2 3 4 5 6 | TRAC | ALIGN AUTO | Avg | SENSE: IN | | GHz | D DC DC | .7550 | req 1 | | en |
| Auto Tur | 00 GHz | 1.755 0 | Mkr1 | | n: 30 dB | | PNO: Wide IFGain:Low | 13.9 dB | | | Bidiv | 0.45 |
| Center Fre 1.755000000 GR | | | | | - | | | | 30.00 | Kei | | og 20.0 10.0 |
| Start Fre 1.754000000 Gi | -13.00 424 | | | man | •'- | | man | - Mart | | | | 0.00 10.0 20.0 30.0 |
| Stop Fre 1.756000000 Gi | | | - | | | - | - | | | _ | | 40,0 50,0 |
| CF Ste 200.000 k Auto M | | .000 ms (| Sweep 1 | FUNCTION | | W 620 kH | | × | | 200 | s BW | Re |
| Freq Offs 01 | | | | | I dBm | -23,44 | 000 GHz | 1.755 | | 1 1 | N | 1234567 |
| | | | | | | | _ | | | | + | 8 9 |

Band4_15MHz_QPSK_75_0_HighCH20325-1747.5

Band4_20MHz_QPSK_1_0_LowCH20050-1720

| | | | -c- 4 🕰 |
|-------------------------------------|--|--|------------------------------|
| RL IIF 50 D DC | PNO: Fast Trig: Free Run | ALIGN AUTO 10:03:49 AM Aug 13, 201 Avg Type: Log-Pwr TRACE [1 2 3 45 TYPE A WWWW DET A NN NN | - Frequency |
| Ref Offset 13.9 dB | IFGain/Low #Atten: 30 dB | Mkr1 1.710 000 GH: -19.22 dBm | Auto Tun |
| 0.0 | | | Center Fre 1.710000000 GH |
| | mus from from from from | Maun Man 13000 | Start Fre 1.709000000 GH |
| 0.0 | | | Stop Fre 1.711000000 GH |
| tart 1.709000 GHz Res BW 300 kHz | #VBW 1.0 MHz | Stop 1.711000 GH Sweep 1.000 ms (1001 pts | |
| | 710 000 GHz -19.22 dBm 709 982 GHz -13.64 dBm | | |
| | -13.04 UBIN | | Freq Offse |

Band4_20MHz_QPSK_1_99_HighCH20300-1745



Band4_20MHz_QPSK_100_0_LowCH20050-1720

| 10 dB/div | q 1.710000 | 000 GHz | SENSE:3NT | ALIGN AUTO | 10:04:49 AM Aug 13, 2018 | |
|------------------------|---------------------------------|-------------------------|----------------|--|--|----------------------------------|
| 0 dB/div | | | Trig: Free Run | Avg Type: Log-Pwr | THACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Frequency |
| 0 dB/div | | PNO: Fast IFGain:Low | #Atten: 30 dB | | | Auto Tune |
| 00 | Ref Offset 13.9 Ref 30.00 dE | | | MKr1 | 1.710 000 GHz -26.07 dBm | |
| 20.0 | | | | | | Center Free 1.710000000 GH |
| 0.00 10.0 20.0 | | | • ¹ | - withing we are a start and a start and a start and a start and a start a start and a start and a start and a | 1300 601 | Start Free 1.709000000 GH: |
| 40.0 50.0 | | | | | | Stop Free 1.711000000 GH |
| tart 1.709 Res BW 3 | 00 kHz | #VBW | 1.0 MHz | | Stop 1.711000 GHz .000 ms (1001 pts) | CF Stej 200.000 kH Auto Ma |
| 1 N 1 2 3 4 | | 1.710 000 GHz | -26,07 dBm | | | Freq Offse |
| 5 6 7 8 9 | | | | | * | |
| 10 | | | | | | |

Band4_20MHz_QPSK_100_0_HighCH20300-1745

| Keysight Spectrum Analyzer - Swept SA | | | | -0- 4 ⁰ 2 |
|--|---------------------------------|------------------------|--|--------------------------------|
| Center Freq 1.755000000 | GHz PNO: Fest Trig: Free Run | Avg Type: Log-Pwr | 10:13:23 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW DET A NNNNN | Frequency |
| Ref Offset 13.9 dB | IFGein Low #Atten: 30 dB | Mkr1 | 1.755 000 GHz -25.27 dBm | Auto Tun |
| og 20.0 10.0 | | | | Center Fre 1.755000000 GH |
| 1.00 00.0 00.0 | 1 | | -1300 dDre | Start Fre 1.754000000 GH |
| 40.0 50.0 | | | | Stop Fre 1.756000000 GH |
| tart 1.754000 GHz Res BW 300 kHz | #VBW 1.0 MHz | Sweep 1 | Stop 1.756000 GHz I.000 ms (1001 pts) | CF Ste 200.000 ki Auto M |
| ADDE 1120 1900 X 1 N 1 f 1.76 2 3 4 | 5 000 GHz -25.27 dBm | FUNCTION FUNCTION WOTH | FUNICITION VALUE | Freq Offs |
| 4 5 7 7 8 9 9 | | | | 01 |
| 11 (| | ETATU | | |

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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台灣檢驗科技股份有限公司



Band5 1 4MHz QPSK 1 0 LowCH20407-824.7

| | | | | | | Analyzer - Swept | | | |
|---------------------------------|---|---------------|-------|---------------|---------------------------|------------------|--------------|-------|------------------------------|
| Frequency | 01:34:55 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYOP A MANAGEM | Type: Log-Pwr | | Trig: Free Ru | DOO MHz | 50 D 824.0000 | req | | len |
| Auto Tur | 1 824.000 MHz -25.93 dBm | Mkr | | #Atten: 30 dt | PNO: Wide * IFGain/Low | Offset 13.6 | Ref | | |
| Center Fre 824.000000 MH | -20.55 UBIN | 7 | 1 | | Bm | f 30.00 dB | Rei | 3/div | .og 20.0 10.0 |
| Start Fre 823.000000 MH | -13 00 dDr | hanne | / | 1 | | | | | 0.00 10.0 20.0 30.0 |
| Stop Fre 825.000000 Mi | | | | | | | ~~~ | - | 40,0 50,0 |
| CF Ste 200.000 ki Auto Mi | Stop 825.000 MHz .200 ms (1001 pts) | Sweep 6 | FUNCT | W 62 kHz | #VB | Hz | .000 20 k | s BW | Re |
| Freq Offs 0 F | | | | -25.93 dBm | 824.000 MHz | | 1 1 | N | 123456 |
| | | | | | | | | | 7 8 9 10 |
| | | STATUS | | | | | | | 50 |

| | trum Analyzer - Swept SA | | | | | |
|---------------------------|-------------------------------------|-------------|---------------|-------------------|---|---------------------------------|
| RL Center Fr | a 849.00000 | | SENSE:INT | Aug Type: Log-Pwr | 01:42:33 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| -ontor rite | | PNO: Wide | #Atten: 30 dB | | DET A NNNNN | |
| 0 dB/div | Ref Offset 13.6 dl Ref 30.00 dBm | 3 | | Mk | 1 849.000 MHz -22.06 dBm | Auto Tur |
| og 20.0 10.0 | | ~ | ~ | | | Center Fre 849.000000 MH |
| 10.0 10.0 20.0 1 | | | 1 | | -13 00 dDa | Start Fre 848.000000 MH |
| 40.0 50.0 | | | | | Same and some | Stop Fre 850.000000 MH |
| tart 848.0 Res BW 2 | 0 kHz | #VBV | | | Stop 850.000 MHz .200 ms (1001 pts) | CF Ste 200.000 kł Auto Ma |
| 1 N 1 2 3 4 5 | r | 849.000 MHz | -22.06 dBm | | | Freq Offs 0 F |
| 6 7 8 9 | | | | | | |
| | | | | 1 | | |
| 50 | | | | STATUS | | |

Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3

Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

| | | | | | | triam Analyzar | sight Spect | |
|----------------------------------|---|-----------------|-----------|--------------|------------------------|-----------------------|-------------------|-------------------------|
| Frequency | 01:36:00 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | g Type: Log-Pwr | Free Run | | 50 D DC 0000000 MHz | | ter Fre | Cen |
| Auto Tun | 1 824.000 MHz -31.36 dBm | Mkr | en: 30 dB | | IFG et 13.6 dB | Ref Offse Ref 30.0 | | 10 di |
| Center Fre 824.000000 MH | | | | | | | | 20.0 10.0 0.00 |
| Start Free 823.000000 MH | -13 00 dDa | | 1 | | | | | -10.0 -20.0 -30.0 |
| Stop Fre 825.000000 MH | | | | | | ~~~ | ~~~~ | 40.0 50.0 60.0 |
| CF Stej 200.000 kH Auto Ma | Stop 825.000 MHz 200 ms (1001 pts) | | | #VBW 62 kHz | | | t 823.0 s BW 2 | #Re |
| Freq Offse 0 H | | | 6 dBm |) MHz -31.36 | 824.000 | 7 | <u>N</u> 1 | 1 2 3 4 5 |
| | | | | | | | | 6 7 9 10 11 |
| | | STATUS | | | | | | 150 |

Band5 1 4MHz QPSK 6 0 HighCH20643-848.3

| | tt Spectru | am Analyza | | | | | | | | | |
|------------------------|------------|---------------------|------|--------|-------------|---------------|-----------------|---------------------------|--------------------------------|----------|-------------------------------|
| RL | . Francis | | | DC MH2 | - | SENSE:1 | | Type: Log-Pwr | 01:43:04 PM Aug 1 TRACE 1 2 | 3,2018 | Frequency |
| ente | Free | q 849. | 0000 | P | NO: Wide == | #Atten: 30 dE | n | The color at | DET A N | NNNN | |
| 0 dB/d | | Ref Offs Ref 30. | | | | | | Mk | r1 849.000 -28.31 d | | Auto Tur |
| 20.0 | | | | | | | | | | _ | Center Fr 849.000000 M |
| -10.0 | | - | | | | 1 | _ | | | 1 00 dDm | Start Fre 848.000000 Mi |
| 30.0 40.0 60.0 | | | | | | | 101201 * 104-24 | and a start and a start a | | ~~~ | Stop Fr 850.000000 M |
| Res | 3W 20 | | | | #VB | N 62 kHz | | | Stop 850.000 i.200 ms (100 | 1 pts) | CF Str 200.000 k Auto M |
| MRR MOD | | 1 | | 849.00 | 0 MHz | -28.31 dBm | FUNCTION | FUNCTION WOTH | FUNCTION VAL | UE A | |
| 2 3 4 5 | | | | | | | | | | Ξ. | Freq Offs |
| 6 7 8 9 10 | | | | | | | | | | | |
| 11 | + + | - | | | - | | | - | - | | |
| 50 | | | | | | | | STATU | - | | |

Band5_3MHz_QPSK_1_0_LowCH20415-825.5

| -c | | | | | | Analyzer - Swept SA | | | |
|----------------------|---|-----------------|--------|------------|-------------------------|---------------------------------|---------|-------|---------------|
| Frequency | 01:23:51 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | g Type: Log-Pwr | SE:INT | | AHz | 824.000000 N | req 824 | | RI Cen |
| Auto Tun | 1 824.000 MHz | Malend | | #Atten: 30 | PNO: Wide IFGain:Low | | | | _ |
| | -17.49 dBm | MIKE | | | | f 0ffset 13.6 dB f 30.00 dBm | | B/div | IO de |
| Center Fre | | _ | - | | | | | - | 20.0 |
| 824.000000 MH | | | / | | | | | | 10.0 |
| Start Fre | -13.00 dDm | - and | 1 | | | | _ | | 10.0 |
| 823.000000 MH | | | | ~ | - | | | | -20.0 |
| Stop Fre | | | | | ~ | | 1 | - | 40.0 |
| 825.000000 MH | | | | | | | | - | 60.0 |
| CF Ste 200.000 kH | Stop 825.000 MHz | | | | | | .000 MH | | |
| Auto Ma | .667 ms (1001 pts) | Sweep 1.6 | | 120 kHz | | . × | | S BW | |
| Freq Offs | | | m | -17.49 dB | 4.000 MHz | 824 | 1 1 | N 1 | 1 2 3 |
| 01 | | | - | | | | | - | 4 5 |
| | | | - | | | | | | 678 |
| | | | - | | | | | | |
| | | | | | | | | | 9 10 11 |

Band5_3MHz_QPSK_1_14_HighCH20635-847.5

| | | | | | | | | | n Analyzar - Si | ectru | | Kary R R I |
|---------------------------------|--|-----------|-------------|----------|-----|----------|--------------------------|--------|-------------------------|-------|-------|-------------------------|
| Frequency | PM Aug 13, 2018 HCE 1 2 3 4 5 6 HPE A WWWWW DET A NNNNN | TRAC | e: Log-Pwr | Avg | Run | 1 | IZ | 0000 M | 849.00 | ree | | |
| Auto Tur | 000 MHz | r1 849.0 | Mki | | | #Atten: | PNO: Wide - FGain/Low | 3.6 dB | ef Offset 1 ef 30.00 | | B/div | |
| Center Fre 849.000000 MH | | | | | | 2 | r | | | _ | _ | 20.0 10.0 |
| Start Fre 848.000000 MF | -13.00 dDm | | | ~ | •1- | ~ | | ~ | ~~~ | ~~ | ~ | -10.0 -20.0 -30.0 |
| Stop Fre 850.000000 MF | 2 | ~ | | | | | | | | | | 40.0 50.0 60.0 |
| CF Ste 200.000 kH Auto Ma | 0.000 MHz (1001 pts) | .667 ms (| Sweep 1 | | z | 120 kH; | #VB | | | 39 | s BV | Re |
| Freq Offs | ION WALKE | FUNCTO | NCTION WOTH | FUNCTION | Bm | -16.07 d | 00 MHz | 849. | | | N | 1 2 |
| 01 | | | | | - | | - | | | | - | 3 4 5 6 7 |
| | | | | | - | | | | | | | 8 9 10 |
| | | | STATUS | | | | | | | | - | < |

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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台灣檢驗科技股份有限公司



Band5 3MHz QPSK 15 0 LowCH20415-825.5

| - c- di 🖌 | | | | | | | rum Analyzer - Sw | night Spec | |
|--------------------------------|---|-----------|---------------|----------|----------------|-------------|----------------------------|---------------|------------------------------|
| Frequency | MAug 11, 2018 26 1 2 3 4 5 6 27 A N N N N N | TRAC | Type: Log-Pwr | A | Trig: Free Rur | | eq 824.000 | er Fr | Cen |
| Auto Tur | 00 MHz 54 dBm | r1 824.0 | Mk | | #Atten: 30 dB | IFGain:Low | Ref Offset 13 Ref 30.00 | Vdiv | 10 di |
| Center Fre 824.000000 MH | | | | _ | | | | | 20.0 10.0 |
| Start Fre 823.000000 Mi | -13.00 dDm | | | _ | ¢1- | | | | 10,0 10,0 20,0 30,0 |
| Stop Fre 825.000000 Mi | | | | | | | | | 40.0 50.0 |
| CF Ste 200.000 ki Auto M | | .667 ms (| Sweep 1 | FUNCTION | W 120 kHz | #VB | | 823.0 BW 3 | Re |
| Freq Offs 01 | | | | | -27.54 dBm | 824.000 MHz | 1 | N 1 | 1234567 |
| | | | | | | | | 1 | 8 9 10 11 |
| | | s | STATU | | | | | | 53 |

| | | | | | | Analyzer - Swep | pectrum | | Ke Ke |
|--------------------------------|---|---------------|---------|--------------------------------|-------------|---------------------------|-----------------|----------------|-----------------------|
| Frequency | 01:31:17 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Type: Log-Pwr | | SENSE:1 | 0000 MHz | | | | |
| | DET A NNNN | | | Trig: Free Ru #Atten: 30 dB | PNO: Wide | | | | |
| Auto Tu | 1 849.000 MHz -25.36 dBm | Mkr | | | | Offset 13.6 5 30.00 dl | | B/div | 0 d |
| Center Fro 849.000000 Mi | | | | | | | | | 20.0 |
| Start Fr | -13 00 dDm | | | | | ~~~ | | | 0.00 |
| 848.000000 M | | | ~· | ×. | | | _ | | 20.0 |
| Stop Fr 850.000000 M | | | _ | | | | _ | \vdash | 0.0 |
| CF Ste 200.000 ki Auto M | Stop 850.000 MHz 667 ms (1001 pts) EW/INTERNATION | | FUNCTIO | 120 kHz | × | Hz | 8.000 V 39 k | nt 84 Is BV | Re |
| Freq Offs | | | | -25.36 dBm | 849.000 MHz | | 1 1 | N | 23454 |
| | | | | | | | | | 6 7 8 9 0 |
| | | • • | | | | | | - 1 | 1 |
| | | STATUS | | | | | | | R |

Band5_3MHz_QPSK_15_0_HighCH20635-847.5

Band5_5MHz_QPSK_1_0_LowCH20425-826.5

| RL IV SDD D | | SENSE:INT | ALIGN AUTO | 01:07:23 PM Aug 13, 2018 | |
|---|-------------|---------------|-------------------|---|----------------------------------|
| Center Freq 824.00000 | | 1 | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| Ref Offset 13.6 d 0 dB/div Ref 30.00 dB | в | #Atten: 30 dB | Mkr | 1 824.000 MHz -22.73 dBm | Auto Tuni |
| 20.0 10.0 | | | | | Center Free 824.000000 MH |
| 20.0 | | 1- | | -1303 451 | Start Free 823.000000 MH |
| 40.0 | ~ | | | | Stop Free 825.000000 MH |
| start 823.000 MHz Res BW 51 kHz | #VBW | / 150 kHz | | Stop 825.000 MHz 000 ms (1001 pts) | CF Step 200.000 kH Auto Ma |
| N 1 f 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 9 - - 9 - - | 824.000 MHz | -22.73 dBm | | | Freq Offse 0 H |
| 8 | | | | | |

Band5_5MHz_QPSK_1_24_HighCH20625-846.5

| -c>- (\$ | 01:15:02 PM Aug 13, 2018 | ALIGN AUTO | | SENSE:10 | | pr SA | nalyzar - Sw 50 D | etrum A | | Key R |
|-------------------------|---------------------------------------|--------------|----------|--------------|------|---------|----------------------|----------------|-------|----------|
| Frequency | TRACE 1 2 3 4 5 6 | pe: Log-Pwr | Avg | rig: Free Ru | | 000 MHz | | | | |
| Auto Tu | DET A NNNNN | | | Atten: 30 dB | Wide | PN | | | | |
| Auto Tu | 1 849.000 MHz -22.24 dBm | Mkr | | | | | Offset 13 30.00 | | B/div | 10 di |
| Center Fr | | | | | | | | | | .og |
| 849.000000 M | | | _ | | 1 | | | | - | 10.0 |
| | | - | | | | 1 | | - | - | 0.00 |
| StartFr | -13.00 dDm | - | _ | 1- | | | - | | | 10.0 |
| 848.000000 M | | | | 1 | _ | | | _ | 1 | 20.0 |
| | | _ | - | | | | | _ | | 40.D |
| Stop Fr 850 000000 M | ~~~~~ | m | _ | | | | | - | - | 50,0 |
| 000,000000 11 | | | | | | | | - | - | 60.0 |
| CF St 200.000 k | Stop 850.000 MHz 000 ms (1001 pts) | | | 50 kHz | #VBW | | | 000 P 51 ki | | |
| uto M | EUNICIÓN WALUE | UNCTION WOTH | FUNCTION | 22.24 dBm | MHz | 849.000 | | | N | |
| Freq Offs | | | | | | | | | | 23 |
| 0 | | | | | | | | | - | 4 |
| | | | | | _ | | | | - | 67 |
| | | | | | _ | | | | - | 8 |
| | | | | | | | | | - | 10 |
| | | STATUS | | | | | | | | 50 |

Band5_5MHz_QPSK_25_0_LowCH20425-826.5

| | | - | | | | | _ | | knalyzer - | | ht Spect | | |
|---------------------------------|------------------------------|-------|--------------|----------|--------------|-----|-----------------------|------------------|------------|------|---------------|------|-----------------------|
| Frequency | TRACE 1 2 3 4 5 6 | | ype: Log-Pwr | Ave | SUNSE:1 | | MHz | D0000 | 324.0 | eq 8 | r Fre | nter | |
| | DET A NNNNN | | | 1 | Atten: 30 dB | | PNO: Wid IFGain/Lo | | | | | | |
| Auto Tun | 24.000 MHz -29.83 dBm | kr1 8 | м | | | | | 13.6 dB 0 dBm | | | līv | B/di | 0 d |
| Center Fre 824.000000 MH | | | | | | | _ | | | | | - | 20.0 |
| Start Fre 823.000000 MH | -13.00 dDm | | | J | 1 | - | _ | | | + | | | 0.00 10.0 20.0 |
| Stop Fre 825.000000 MH | | _ | | | ~~~ | | ~~~ | | | - | ~ | | 30.0 40.0 50.0 |
| CF Ste 200.000 kH Auto Ma | 825.000 MHz ms (1001 pts) | 1.000 | Sweep | EUNCTION | 50 kHz | VBW | # | | | 51 k | 323.0 3W 5 | rt 8 | Re |
| Freq Offse | | | | | 29.83 dBm | 2 | .000 MHz | 82 | | 1 | 1 | N | 1 2 3 4 |
| | | | | | | | | | | | | | 5 6 7 8 9 |
| | | - | | | | - | | | | | | | 11 |

Band5_5MHz_QPSK_25_0_HighCH20625-846.5

| Conter Freq 849,000000 MHz Prequency Trig: Free Run Prequency Avg Type: Log-Per Trig: Free Run Prequency Trig: Free Run Prequency March 23,3 as Trig: Free Run Prequency Prequency 10 dBidwy Ref Offset 13,6 dB Mkr1 84,0000 MHz Prequency Mkr1 84,0000 MHz Prequency Auto Tur 00 dBidwy Ref 30,000 dBm -28,92 dBm Center Fre 849,00000 MHz Center Fre 849,00000 MHz 00 dbidwy Ref 30,000 MHz 1 100 ms Stop 850,000 MHz 00 dbidwy Ref 349,000 MHz Stop 850,000 MHz Stop 850,000 MHz 00 dbidwy Trig: Freq URING Stop 850,000 MHz CF 585 00 dbidwy Trig: Stop 850,000 MHz CF 585 Auto 01 dbidwy Trig: Ref 249,000 MHz 28,92 dBm Auto 01 dbidwy Trig: Ref 249,000 MHz 28,92 dBm Freq Offs | Keysight Spectrum i | | | | | |
|---|--|-----------------------------|------------|----|---------------------|-----------------------------|
| Ref Offset136.db Auto Tur 0.68/0V Ref 30.00 dbm -28.92 dbm 0.09 -28.92 dbm -28.92 dbm 0.00 -28.92 dbm -28.92 dbm 0.01 -28.92 dbm -28.92 dbm 0.02 -28.92 dbm -28.92 dbm 0.03 -28.92 dbm -28.92 dbm 0.01 -28.92 dbm -28.92 dbm 0.02 -28.92 dbm -28.92 dbm 0.01 -28.92 dbm -28.92 dbm <t< th=""><th></th><th>849.000000 MHz</th><th></th><th></th><th>TRACE 1 2 3 4 5 6</th><th></th></t<> | | 849.000000 MHz | | | TRACE 1 2 3 4 5 6 | |
| 300 300 <th>10 dB/div Ref</th> <th>IFGein:Lo Offset 13.6 dB</th> <th></th> <th>Mk</th> <th>r1 849.000 MHz</th> <th>Auto Tun</th> | 10 dB/div Ref | IFGein:Lo Offset 13.6 dB | | Mk | r1 849.000 MHz | Auto Tun |
| 100 | 20.0 | | | | | Center Fre 849.000000 MH |
| Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz | -10.0 | | he' | | -13.00 dDn | Start Fre 848.000000 MH |
| Res BW 51 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) 200/000 kHz Collocation 2001 C | 60,0 | | | | | |
| N 1 f 849.000 MHz 28.92 dBm Freq Offs 3 - - - - - - - - - - - 0 0 0 0 0 - - - - - - - - - - 0 0 0 0 0 - - - - - - - - - - 0 0 0 0 - - - - - - - - - - 0 | Res BW 51 k | Hz #1 | A | | 1.000 ms (1001 pts) | 200.000 ki |
| | 1 N 1 f 2 3 4 5 6 6 7 8 9 9 10 | | -28.92 dBm | | | Freq Offs 01 |
| | 41 <u>.</u> | | | | | |

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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台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band5 10MHz QPSK 1 0 LowCH20450-829

| MHz PNO: Wide IFGsiniLow | Trig: Free R #Atten: 30 d | un B | | Mkr | 1 824.0 | M Aug 13, 2018 12 2 3 4 5 12 3 4 5 14 NN NN 00 MHz 74 dBm | Frequency Auto Tun Center Fre 824.00000 MH Start Fre 823.00000 MH |
|--------------------------------|------------------------------|---|-----------------------|-----------------------|--|---|--|
| IFGeiniLow | #Atten: 30 d | 8 | | Mkr | 1 824.0 | 00 MHz 74 dBm | Center Free 824.000000 MH Start Free |
| man | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | / | | ~ | 824.000000 MH Start Fre |
| manow | | ~~~~ | - And | | | Witten | |
| | | | | | | | |
| | | _ | | | | | Stop Fre 825.000000 MH |
| #VB\ | W 300 kHz | FUNCTI | | Sweep 1. | .000 ms (| 1001 pts) | CF Ste 200.000 kH Auto Ma |
| 24.000 MHz | -14.74 dBm | | | | | | Freq Offse |
| | | | | | | | |
| | _ | #VBW 300 kHz 24.000 MHz -14.74 dBm | 24.000 MHz -14.74 dBm | 24.000 MHz -14.74 dBm | #VEW 300 kHz Sweep 1 24.000 MHz -14.74 dBm Foxed of Foxed | #VEW 300 kHz Evere 1.000 ms (24.000 MHz -14.74 dBm 2004000 (20140000) (20140000) (20140000) | 24.000 MHz -14.74 dBm Function Function Function World Function Function World Function Fu |

| Keysight Spectrum Analyzer - Swep RL III 50 D | | | | | -e- 14 🖬 |
|--|---|--|-------------------|--|---------------------------------|
| RL IUF 50 D | PNO: Wide | Trig: Free Run | Avg Type: Log-Pwr | 11:30:59 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Frequency |
| Ref Offset 13.6 | IFGein:Low | #Atten: 30 dB | Mk | r1 849.000 MHz | Auto Tur |
| dB/div Ref 30.00 dl | | | | -16.40 dBm | |
| 0.0 | | | | | Center Fr 849.000000 M |
| 00 0.0 | -com | m 133 | m. | -13.03 dDm | Start Fr 848.000000 M |
| 0.0 | | | - money | mmm | Stop Fr 850.000000 M |
| art 848.000 MHz es BW 100 kHz | #VBW | 300 kHz | Sweep 1 | Stop 850.000 MHz .000 ms (1001 pts) | CF Ste 200.000 ki Auto Mi |
| N 1 1 2 N 1 1 3 N 1 1 4 5 6 | 849.000 MHz 849.014 MHz 849.062 MHz | -16.40 dBm -14.47 dBm -14.73 dBm | | | Freq Offs 01 |
| 9 9 0 | | | | | |
| | | | TATU | | |

Band5 10MHz QPSK 1 49 HighCH20600-844

Band5_10MHz_QPSK_50_0_LowCH20450-829

| | 11:24:30 AM Aug 13, 2018 | ALIGN AUTO | SENSE:INT | | am Analyzar - Swept SA | RL |
|---------------------------------|--|-------------------|----------------|------------|--|------------------|
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Avg Type: Log-Pwr | Trig: Free Run | PNO: Wide | q 824.000000 M | enter Fr |
| Auto Tun | | | #Atten: 30 dB | IFGein!Low | | |
| Auto Tun | 1 824.000 MHz -26.44 dBm | Mkr | | | Ref Offset 13.6 dB Ref 30.00 dBm |) dB/div |
| Center Fre | | | | | | 0.0 |
| 824.000000 MH | | | | | | 0.0 |
| StartFre | -13 00 dDn | | | | | 0.0 |
| 823.000000 MH | | Jungal | mm | | | 0.0 |
| | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 0.0 |
| Stop Fre 825.000000 MH | | | | | | 0.0 |
| | Stop 825.000 MHz | | | | | tart 823. |
| CF Ste 200.000 kH Auto Ma | 000 ms (1001 pts) | | 300 kHz | #VBW | | Res BW |
| <u>Suro</u> ma | FUNCTION VALUE | TON FUNCTION WOTH | -26,44 dBm | 4.000 MHz | | N 1 |
| Freq Offse | | | | | | 2 3 4 |
| | * | | | | | 5 6 7 |
| | | | | | | 6 7 8 9 |
| | | | | | | 0 |
| | | STATUS | | | | a |

Band5_10MHz_QPSK_50_0_HighCH20600-844

| Center Freq 849 | 50 B DC | SENSE:INT | Auton Auto Avg Type: Log-Pwr | 11:31:24 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
|-------------------------------------|-------------------------|---------------|---------------------------------|---|--------------------------------|
| | PNO: Wide IFGain:Low | #Atten: 30 dB | | DET A NNNNN | |
| | et 13.6 dB .00 dBm | | Mk | r1 849.000 MHz -25.66 dBm | Auto Tur |
| 20.0 | | | | | Center Fre 849.000000 MH |
| 10.0 | | unnin | | -13.00 40+ | Start Fre 848.000000 Mi |
| 30.0 40.0 50.0 60.0 | | | | | Stop Fr 850.000000 M |
| Start 848.000 MH #Res BW 100 kHz | #VI | BW 300 kHz | | Stop 850.000 MHz .000 ms (1001 pts) | CF Ste 200.000 ki Auto M |
| 1 N 1 7 2 3 4 5 | × 849.000 MHz | -25.66 dBm | FUNCTION FUNCTION WOTH | FURICICIAN VALUE | Freq Offs |
| 6 7 8 9 10 11 | | | | | |

Band7_5MHz_QPSK_1_0_LowCH20775-2502.5

| | | | | | rum Analyzer - Swept SA | | |
|-----------------------|---|-------------------|----------------|----------------------------|-------------------------------------|--------|------------------|
| Frequency | 02:29:54 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW | Avg Type: Log-Pwr | Trig: Free Run | | 10 50 D DC | L | R |
| Auto Tur | 2.500 000 GHz | Mkr1 | #Atten: 30 dB | PNO: Wide ++ IFGain/Low | | | _ |
| | -19.03 dBm | | | | Ref Offset 14.1 dB Ref 30.00 dBm | B/div | |
| Center Fre | | | | | | | 20.0 |
| 2.500000000 GH | | | | | | | 10.0 |
| Start Fre | -10.00 401 | | 1200 | _ | | - | 10.0 |
| 2.499000000 GH | | | / | | | | -20.0 |
| Stop Fre | | | | ~ | | | 40.0 |
| 2.501000000 GH | | | | | | | -60.0 |
| CF Ste | top 2.501000 GHz | S | | | 000 GHz | | |
| 200.000 kH Auto Ma | 000 ms (1001 pts) | Sweep 1. | 150 kHz | #VBV | | s BW : | _ |
| | | | -19.03 dBm | 00 000 GHz | f 2.60 | N 1 | 1 |
| Freq Offse | | | | | | | 3 |
| | | | | | | | 5 6 7 8 |
| | | | | | | | 9 |
| | | | | | | | 10 |
| | | STATUS | | | | | 150 |

Band7_5MHz_QPSK_1_24_HighCH21425-2567.5

| | | and the second second | | nalyzer - Swept SA | | |
|---------------------------------|---|-----------------------|----------------|--|------|------------------|
| Frequency | 02:37:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Avg Type: Log-Pwr | Trig: Free Run | 50 D DC | 1 | RL |
| Auto Tur | 2.570 000 GHz -19.58 dBm | Mkr1 | #Atten: 30 dB | PNO: Wide IFGein!Low Offset 14.1 dB 30.00 dBm | | dB/div |
| Center Fre 2.570000000 GR | | | | | | 0.0 0.0 |
| Start Fre 2.569000000 GH | ~13.00 dDn | | 1- | | ~ | |
| Stop Fre 2.571000000 GH | | | | | | 0.0 |
| CF Ste 200.000 ki Auto Mi | top 2.571000 GHz .000 ms (1001 pts) | Sweep 1 | W 150 kHz | Hz #VE | W 51 | tart 2. Res B |
| Freq Offs | FUNCTION VALUE | THON FUNCTION WIGHT | -19.68 dBm | 2.570 000 GHz | 1 1 | 1 N 2 3 |
| 0) | 6 | | | | | 5 6 7 8 |
| | | | | | | 0 |
| | | STATUS | | | | 3 |

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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台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band7 5MHz QPSK 25 0 LowCH20775-2502.5

| - 0- Ø | | | | | | | Analyzer - Swept SA | Spectre | | |
|-----------------------------|------------------------|-----------|-------------|----------|---------------|---------------------------|---------------------|--------------|------|--------------|
| Frequency | CE 1 2 3 4 5 6 | TRAC | ALIGH AUTO | Avg | Trig: Free Ru | | F 50 D DC | - | u. | 4 3 |
| Auto Tur | | - | | | #Atten: 30 dB | PNO: Wide H IFGain:Low | | | | |
| Auto Tu | 000 GHz .82 dBm | 2.500 0 | Mkr1 | | | | f Offset 14.1 dB | | B/di | 10 0 |
| Center Fre | | | | | | _ | | | | 20.0 |
| 2.500000000 GH | | | | | | | | | 1 | 10.0 |
| | -13.00 -00- | | | 1 | | | | | | 0.00 10.0 |
| Start Fre 2.499000000 Gi | 13.00 0.00 | | | | ¢1 | | | | | 20.0 |
| 2.4000000000 | | | | | | | | ~ | - | 30 (|
| Stop Fre | | | - | | | | | | 1 | 40.0 |
| 2.501000000 GI | | | | | | | | | | 60.0 |
| CF Ste 200.000 ki | 1000 GHz (1001 pts) | Stop 2.50 | Sweep 1 | | 150 kHz | #VB1 | 0 GHz kHz | 4990 W 51 | | |
| Auto M | ION WALUE | | UNCTON WOTH | FUNCTION | -24.82 dBm | 000 GHz | | 1 | - | - |
| Freq Offs | | | | | | | | | | 234 |
| | | | | | | - | | | | 5 |
| | | | | | | | | | | 789 |
| | | | | | | | | | _ | 10 11 |
| | | | | | | | | | - | |
| | | s | STATUS | | | | | | | 53 |

| | 02:38:57 PM Aug 13, 2018 | ALIGN AUTO | | SENSE:0 | pt SA | Analyzer - Sw 50 D | pectriami i | | Key Ri |
|---------------------------|--|---------------|---------|---------------|---------------|-----------------------|----------------|-------|-------------|
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Type: Log-Pwr | | | PNO: Wide | 1.50 14 | 10 | - | |
| Auto Tur | | | | #Atten: 30 dB | IFGain:Low | | | | |
| Auto Tur | 2.570 000 GHz -27.89 dBm | Mkr1 | | | | Offset 14 | | B/div | 0 dl |
| Center Fre | | _ | | | | | | | 20.0 |
| 2.570000000 GI | | - | | | | | | | 0.0 |
| | -12.00 (20) | | | | | | | | 0.00 D.D |
| Start Fr 2.569000000 G | -10.00 dDm | | | 1- | | | | | 0.0 |
| 2.56900000 G | | | | - | | | | | 30.0 |
| Stop Fr | | _ | _ | | | | - | | (D, D |
| 2.571000000 G | | | - | + + | | | - | | 50,0 |
| | | | | | | | | | 50.0 |
| CF Ste 200.000 k | top 2.571000 GHz 000 ms (1001 pts) | | | W 150 kHz | #VE |) GHz | 6900 / 51 k | | |
| Auto M | | HUDIOGWOOD | FUNCTIO | Y TOO MILE | × | | | _ | _ |
| | | | | -27.89 dBm | 2.570 000 GHz | | 1 1 | N | 2 |
| Freq Offs | | | | | | | | | 3 |
| | | | | | | | - | - | 5 |
| | | | | | | | | | 78 |
| | | | | | | | | | 9 10 |
| | | | | | | - | - | _ | 11 |
| | | STATUS | | | | | | | a |

Band7_5MHz_QPSK_25_0_HighCH21425-2567.5

Band7_10MHz_QPSK_1_0_LowCH20800-2505

| RL NF 50 D DC | SENSE:INT | | 2:17:20 PM Aug 13, 2018 | Frequency |
|---|--|------------------------------------|--|----------------------------------|
| | PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB | Avg Type: RMS Avg Hold: 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | |
| Ref Offset 14.1 dB 0 dB/div Ref 30.00 dBm | | | 500 000 GHz -13.235 dBm | Auto Tune |
| 20.0 10.0 | | | | Center Free 2.500000000 GH |
| 0.0 | | ~~~~ | | Start Fre 2.499000000 GH |
| 0.0 | | | | Stop Fre 2.501000000 GH |
| tart 2.499000 GHz Res BW 100 kHz | #VBW 300 kHz* | | 0 2.501000 GHz 0 ms (1001 pts) | CF Stej 200.000 kH Auto Ma |
| 1 N 1 1 2.50 2 3 4 5 5 | 0.000 GHz -13.235 dBm | | | Freq Offse 0 H |
| 6 77 88 99 99 90 100 100 100 100 100 100 100 10 | | | | |
| 50 | | STATUS | | |

Band7 10MHz QPSK 1 49 HighCH21400-2565

| RL III : | ID DC | SUNSE:INT | ALTON AUTO | 02:26:01 PM Aug 13, 2018 | Frequency | | | | | |
|--|---------------------------------------|---------------------------------|----------------------|--|-------------------------------|--|--|--|--|--|
| | PND: Wide | Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Frequency | | | | | |
| dB/div Ref 30.0 | Ref Offset 14.1 dB Mkr1 2.570 000 GHz | | | | | | | | | |
| 0.0 | | | | | Center Fre 2.570000000 GH | | | | | |
| 0.0 44 | man | 1? | and man | -13 00 dDn | Start Fr 2.569000000 G | | | | | |
| | | | | mount | Stop Fr 2.571000000 G | | | | | |
| tart 2.569000 GHz Res BW 100 kHz | | 300 kHz | Sweep 1. | top 2.571000 GHz 000 ms (1001 pts) | CF Sto 200.000 k Auto M | | | | | |
| 28 72002 1132 500 1 N 1 f 2 N 1 f 3 | 2.570 000 GHz 2.570 020 GHz | -16.21 dBm -13.64 dBm | NOTION FUNCTION WOTH | FUNCTION VALUE | FreqOffs | | | | | |
| 4 5 6 7 8 9 0 0 | | | | | 0 | | | | | |
| | | | | | | | | | | |

Band7_10MHz_QPSK_50_0_LowCH20800-2505

| | | | | | | | nam Analyzer - | t Specb | | |
|----------------------------------|---|---------------|----------|----------------|--------------|------------|------------------------|---------|-------|---------------------------------|
| Frequency | 02:18:19 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW | Type: Log-Pwr | A | Trig: Free Run | PNO: Wide == | 50 D DC | 10 5 | | L | R |
| Auto Tune | 2.500 000 GHz -22.48 dBm | Mkr1 | | #Atten: 30 dB | IFGain Low | et 14.1 dB | Ref Offset Ref 30.0 | v | B/div | 10 d |
| Center Free 2.50000000 GH | | | | | | | - | _ | | .og 20.0 10.0 |
| Start Fred 2.499000000 GHz | -10.00 dDm | ~ | | ¹ | | | | ~ | | 0.00 -10.0 -20.0 -30.0 |
| Stop Free 2.501000000 GH | | | | | | | | | | 40.0 50.0 60.0 |
| CF Stej 200.000 kH Auto Ma | top 2.501000 GHz 000 ms (1001 pts) | Sweep 1. | FUNCTION | 300 kHz | #VB | z | 000 GHz 00 kHz | | s B | Re |
| Freq Offse 0 H | | | | -22.48 dBm | 0 000 GHz | 2.50 | 1 | 1 | N | 12345 |
| | | | | | | | | | | 6 7 9 10 |
| | | STATUS | | | | | | - | _ | < [] |

Band7_10MHz_QPSK_50_0_HighCH21400-2565

| Keysight Spectrum Analyzer - S | | | | | #- - |
|-------------------------------------|---------------|-------------------|---------------------|---|---------------------------------|
| RL 10 50 | PND: Wide = | Trig: Free Run | Avg Type: Log-Pwr | 02:26:52 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| Ref Offset 1 0 dB/div Ref 30.00 | IFGain:Low | #Atten: 30 dB | Mkr1 | 2.570 000 GHz -24.15 dBm | Auto Tun |
| og 20.0 10.0 | | | | | Center Fre 2.570000000 GH |
| 20.0 | maro | nor in the second | | -13.03 d3m | Start Fre 2.569000000 GH |
| 10.0 50.0 | | | | | Stop Fre 2.571000000 GH |
| tart 2.569000 GHz Res BW 100 kHz | #VB | W 300 kHz | Sweep 1. | top 2.571000 GHz 000 ms (1001 pts) | CF Ste 200.000 ki Auto Mi |
| 1 N 1 f 2 3 | 2.570 000 GHz | -24.15 dBm | CTION FUNCTION WOTH | FUNCTION VALUE | FreqOffs |
| 4 5 6 7 8 | | | | 6 | 01 |
| 9 | | | | | |

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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Band7_15MHz_QPSK_1_0_LowCH20825-2507.5

| RL | | am Analyzar | SO DC | | | UNSE: INT | | ALIGN AUTO | | PM Aug 13, 2018 | Frequency |
|--------------|--------|-------------|---------------------|------------------------|----------------|---------------|----------|---------------|-------|------------------------|--|
| | | | | PND: Wide | Trig: Fr | | | d: 100/100 | T | CE 123456 PE A WWWW | Frequency |
| | | | | IFGain:Low | #Atten: | 30 dB | | Mkr1 | - | 000 GHz | Auto Tun |
| | | | t 14.1 dB 00 dBm | | | | | | | 56 dBm | |
| 20.0 | | | _ | _ | _ | - | _ | - | | | Center Fre |
| 10.0 | | | | | - | - | | / | | | 2.500000000 GH |
| 10.0 | | | | | ().55K | 1 | | Mary | | | |
| 10.0 | | | | | n der & Alloho | American | Astron . | 1 | | -13.00 001 | Start Fre |
| 20.0 30.0 | why | NWWWW | www.hw | Martin Star | ~~~ | | | | | | 2.499000000 GH |
| 40.0 | | | _ | _ | _ | | _ | - | - | | Stop Fre |
| 60.0 | | - | - | | | - | _ | | - | - | 2.501000000 |
| 60.0 | | - | - | | | - | | - | | | 2.001000000 00 |
| | | 00 GH2 | z | | | | _ | | | 1000 GHz | CF Ste |
| | | 0 kHz | | #V | BW 620 kH | - | | | | (1001 pts) | Auto Ma |
| MRB MO | DE TRE | - | X | 0 000 GHz | 11055 | | UNCTION | UNCTION WRITE | FUNCT | ION VALUE / | Contra Co |
| 2 N | | 1 | | 9 996 GHz | -14.056 c | Bm | | | | | |
| 3 N | | t | 2.49 | 9 942 GHz | -13.686 c | Bm | | | | | Freq Offse |
| 4 N | | 1 | 2.49 | 9 926 GHz 9 910 GHz | -13.264 c | Bm | | | | | 0 H |
| 6 N | | 1 | 2.49 | 9 888 GHz | -13.320 0 | Bm | | | | | |
| 7 | | | A.492 | O OOD STILL | -10.040 | - Contraction | | | | | |
| 8 | | _ | | | | _ | | | | | |
| 10 | ++ | - | | | | - | | | | | |
| 11 | | | | | | | | | | | |
| • | | | _ | | | | | | | | |
| 53 | | | | | | | | STATU | IS . | | |

| SD D DC | | SENSE: IN | | ALIGN AUTO | 02:13:19 PM | Aug 11, 2018 | Frequency |
|----------------|-----------------------------|--|---|--|--|---|--|
| | PNO: Wide - | | Avg Typ Avg Hole | d: 100/100 | THAC | 123456 | Frequency |
| Offset 14.1 dB | | #Atten: 30 dB | | Mkr1 | 2.570 0 | 00 GHz | Auto Tun |
| | | | | | | | Center Fre 2.570000000 GH |
| 24 | 1. Martin | mon how | montering | | trunty | -1300 dans | Start Fre 2.569000000 GH |
| | | | | | | | Stop Fre 2.571000000 GH |
| | #VB | W 620 kHz* | FUNCTION | Sweep 1 | 1.000 ms (1 | 001 pts) | CF Ste 200.000 ki Auto Mi |
| | | -14.372 dBm -13.709 dBm | | | | _ | Freq Offs 0 F |
| | | | | | | | |
| | Offset 14.1 dB 30.00 dBm | PNO: Wide - IFGaint.Cov 2000 dBm | PNO: Wide Trig: Free Run #Histen: 30 dB Dftset 14.1 dB 30.00 dBm Dftset 14.1 dB 1.2 GHz #VBW 620 kHz* 2.670 000 GHz -1.4.372 dBm | PNO. Wide Trig: Free Run Avg Ty If Cells.Low Extent 30 dB Avg Iyle Offset 14 1 dB It It Wide 1/2 It Wide It It Wide It It Wide It It Wide It It It It It <td>PNO: Wide Trig: Free Run Avg Type: RMS if Celerizor Trig: Free Run Avg Type: RMS one of the celerizor Extent 30 dB Mkr1 0.00 dBm Mkr1 Mkr1 0.00 dBm 1,2 Mkr1 0.00 dBm 1,2 Mkr1 0.00 dBm 1,2 Step: 10000 0.00 dBm 1,2 Step: 10000</td> <td>PNO: Wide Trig: Free Run BreamLow Avg Type: RNS AvgHold: 100100 Trig: Trig: Free Run AvgHold: 100100 Trig: Trig: Free Run BreamLow Avg Type: RNS AvgHold: 100100 Trig: Trig: Trig: Free Run BreamLow Mkr1 2.570 00 -14.37 Office II 1 dB III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td> <td>PNO: Wide Trig: Free Run Breaml.ow Avg Type: RMS Avg/Hold: 100100 Tricc [12:3:4:5: Tricc] * 12:3:4:5: Tricc] * 12:3:4: Tricc] * 12:3:5: Tricc] * 12:3:5:</td> | PNO: Wide Trig: Free Run Avg Type: RMS if Celerizor Trig: Free Run Avg Type: RMS one of the celerizor Extent 30 dB Mkr1 0.00 dBm Mkr1 Mkr1 0.00 dBm 1,2 Mkr1 0.00 dBm 1,2 Mkr1 0.00 dBm 1,2 Step: 10000 0.00 dBm 1,2 Step: 10000 | PNO: Wide Trig: Free Run BreamLow Avg Type: RNS AvgHold: 100100 Trig: Trig: Free Run AvgHold: 100100 Trig: Trig: Free Run BreamLow Avg Type: RNS AvgHold: 100100 Trig: Trig: Trig: Free Run BreamLow Mkr1 2.570 00 -14.37 Office II 1 dB III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | PNO: Wide Trig: Free Run Breaml.ow Avg Type: RMS Avg/Hold: 100100 Tricc [12:3:4:5: Tricc] * 12:3:4:5: Tricc] * 12:3:4: Tricc] * 12:3:5: Tricc] * 12:3:5: |

Band7_15MHz_QPSK_1_74_HighCH21375-2562.5

Band7_15MHz_QPSK_75_0_LowCH20825-2507.5

| 02:07:21 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW | ALIGN AUTO Type: Log-Pwr | A | Trig: Free Rur | NO: Wide | p | 50 | 1Ú. | - | RI | |
|--|--|---|---|--|--|--|---|---|--|--|
| | Ref Offset 14:1 dB Mkr1 2:500 000 GHz dB/div Ref 30:00 dBm -23:56 dBm | | | | | | | | | |
| | | | | | | | | | og 20.0 | |
| -13.00 dDm | and the second | | non man | | | | ~ | | 1.00 10.0 20.0 | |
| | _ | | | | | | | | 40.0 50.0 | |
| 00 ms (1001 pts) | Sweep 1. | EUNCTION | 620 kHz | #VBV | | KHz | 200 | s BW | Re | |
| | | | -23.66 dBm | IO GHZ | 2.500 00 | | | | | |
| | | | | | | | | | 7 8 9 0 | |
| | 2.500 000 GHz -23.56 dBm | rmace[2]23335 rmace[2]23355 rmace[2]2355 | Avg Type: Log-Pwr Trace [2:3:3:5: Trace [2:3:3:5:] Trace [2:3:5:] Trace [2:3:5:] | Avg Type: Log-Pwr Tridig: Free Run Avg Type: Log-Pwr Tridig: Tridi: Tridig: Tridig: Tridig: Tridi: Tridig: Tridig: Tr | Wilds Trig: Free Run eArten: 30 dB Avg Type: Log-Pwr Trico [12:3:3:5:4: Trico [12:3:3:5:4: MKr1 2:500 000 GHz -23.56 dBm MKr1 2:500 000 GHz -23.56 dBm 1000 000 GHz 1000 000 000 000 000 0000 0000 0000 00 | B DC SERVER INT Avg Type: Log-Pwr Index 1, 2, 3, 4, 5, 5, 7, 6, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, | Stor Store Store Calibration Calibration< | Avg Type: Log-Pwr Trig: Free Run Trig: Free Run Ref 30.00 dBm Avg Type: Log-Pwr Trig: Free Run Trig: Ref 200 dBm Ref 0ffset141 dB Ref 30.00 dBm Mkr1 2.500 000 GHz -23.56 dBm -23.56 dBm 9000 GHz 200 kHz #VBW 520 kHz Stop 2.501000 GHz Sweep 1.000 ms (1001 pts) | BP Sold Instruction Augustant Augustant Build and table an | |

Band7 15MHz QPSK 75 0 HighCH21375-2562.5

| Reysight Spect | trum Analyzer - Swept SA | | ALTON AUTO | | | | | | | |
|------------------------|---------------------------------------|---------------------|------------------------|--|----------------------------|--|--|--|--|--|
| KL I | | Wide Trig: Free Run | Avg Type: Log-Pwr | 02:14:00 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Frequency | | | | | |
| | Ref Offset 14.1 dB Mkr1 2.570 000 GHz | | | | | | | | | |
| | Ref 30.00 dBm | | | -25.74 dBm | | | | | | |
| 0.0 | | | | | Center Fr 2.570000000 G | | | | | |
| .00 | | | | | | | | | | |
| 0.0 | Volu | mannan | | -13.03 dDm | Start Fr 2.569000000 G | | | | | |
| 0.0 | | | | | | | | | | |
| 0,0 | | | | | Stop Fr 2.571000000 G | | | | | |
| tart 2.569 Res BW 2 | | #VBW 620 kHz | Sweep 1 | Stop 2.571000 GHz .000 ms (1001 pts) | CF St 200.000 k | | | | | |
| | f 2.570 000 | | FUNCTION FUNCTION WOTH | FUNCTION VALUE | Auto M | | | | | |
| 2 3 4 5 | 2.570 000 | -20./4 UBM | | | Freq Offs 0 | | | | | |
| 6 7 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| - | | " | STATU | | | | | | | |

Band7_20MHz_QPSK_1_0_LowCH20850-2510

| A | 01:46:23 PM Aug 13, 2018 | ALIGN AUTO | | SENSE: | | DC | Analyzer - Sive | frection of | | R |
|----------------------------|--|----------------------------|-----------|---------------|-------------|-----------|-----------------|---------------|-------|-------------|
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Type: RMS Hold: 100/100 | | 1 | NO: Fast ++ | | 1.50.15 | 1 10 | | |
| Auto Tun | | | | #Atten: 30 dB | Gain:Low | | | | | _ |
| | 2.500 000 GHz -17.821 dBm | MKr1 | | | | | f 30.00 c | | B/div | D dl |
| Center Fre | | - | | | | | | | | 20.0 |
| 2.500000000 GH | | | | | | | | | | 0.0 |
| Start Fre | -13.00 42m | nophermater | للولوم دي | 1. | | | | | | 0.0 |
| 2.499000000 GH | | | MAY 14 | Martha | with | Merrindy | addina | | | 0.0 |
| | | | | | | | Anda 1 | helper | APY | 0.0 |
| Stop Fre 2.501000000 GH | | - | | | | | | | ⊢ | 50,0 |
| | | | | | | | | | | 50,0 |
| CF Ste 200.000 kH | top 2.501000 GHz 000 ms (1001 pts) | | | 1.0 MHz* | #VB | | 0 GHz kHz | 9900 V 300 | | |
| Auto Ma | FUNCTION WALLE | EUNCTIONWOTH | FUNCTION | Ť. | | x | | 160 500 | | |
| Freq Offse | | | | -17.821 dBm | 0 GHz | 2.500.000 | | 1 1 | N | 23 |
| OH | | | | | | | | - | - | 4 5 |
| | | | | | | | | | | 67 |
| | | | | | - | | | _ | - | 8 9 0 |
| | | | | | - | | - | | _ | 1 |
| | | STATUS | | | | | | | | s |

Band7_20MHz_QPSK_1_99_HighCH21350-2560

| | | | | | | | knalyzar - Sw | | | |
|---------------------------------|---|---------------------------------|-------|--------------------------|----------------------|----------|---------------|---------------|-------|--------------------------------------|
| Frequency | 01:58:16 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVDP A 0014040 | Auton Auto Avg Type: Log-Pwr | | Trig: Free R | | | 50 0 | 10 | L | R |
| Auto Tur | 2.570 000 GHz -17.08 dBm | Mkr1 | | #Atten: 30 d | NO: Fest Sein:Low | 1FC | Offset 14 | | B/div | 0 d |
| Center Fre 2.570000000 GH | | | _ | | | | | / | - | og 20.0 10.0 |
| Start Fre 2.569000000 GH | -13 00 des | Almer and and the second | | town | H**** | | | | | 1 00 10 0 10 0 20 0 30 0 |
| Stop Fre 2.571000000 GH | | | _ | | | | | | | 40.0 50.0 |
| CF Ste 200.000 kF Auto Ma | top 2.571000 GHz .000 ms (1001 pts) | | ELINC | 1.0 MHz | #VE | * | | 6900 / 300 | s BV | Re |
| Freq Offs 0 F | | | | -17.08 dBm -14.77 dBm | 0 GHZ 4 GHZ | 2.570 00 | | 1 1 | NN | 1234567 |
| | | | | * | | | | | | 8 9 10 11 |
| | | STATUS | | | | | | | | 53 |

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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台灣檢驗科技股份有限公司



Band7 20MHz QPSK 100 0 LowCH20850-2510

| Keysight Spectrum Ana | | | | | |
|-----------------------------------|----------------------------|----------------|----------------------|--|--------------------------------|
| RL IU | 50 D DC | Trig: Free Run | Aug Type: Log-Pwr | 01:47:22 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW DET A NNNNN | Frequency |
| 10 dB/div Ref 3 | ffset 14.1 dB 30.00 dBm | #Atten: 30 dB | Mkr1 | 2.500 000 GHz -24.28 dBm | Auto Tun |
| 20.0 10.0 0.00 | | | | | Center Fre 2.500000000 GH |
| 10.0 20.0 30.0 | | 1 | Manalana matanana | -13.00 dDn | Start Fre 2.499000000 GF |
| 40.0 60.0 60.0 | | | | | Stop Fre 2.501000000 GH |
| Start 2.499000 (Res BW 300 ki | | SW 1.0 MHz | Sweep 1 | top 2.501000 GHz .000 ms (1001 pts) | CF Ste 200.000 ki Auto M |
| 1 N 1 f 2 3 | 2.500 000 GHz | -24.28 dBm | NCTION FUNCTION WOTH | FUNCTION VALUE | Freq Offs |
| 4 5 7 8 9 | | | | | 0) |
| 10 11 4 | | | STATU | | |

| 0.0 | | | | | | | | knalyzer - | ectrum III | | R |
|--|---|----------|---------------|----------|----------------|----------------------|--|------------|------------|-------|-----|
| Frequency | MAug 13, 2018 2E 1 2 3 4 5 6 PE A WWWWW | TRAC | Type: Log-Pwr | | Trig: Free Run | PNO: Fast | n pc | 51 | 10 | - | ĸ |
| | | - | | | #Atten: 30 dB | IFGein:Low | | | | | |
| Stop Frequency Auto Tun Center Fre 2.57000000 GH Start Fre 2.56900000 GH Stop Fre 2.57100000 GH CF Step 2.57100000 GH Mato CF Step 200.000 KH Auto Mato Freq Offse 0 H | 68 dBm | | Mkr1 | | | | 14.1 dB 0 dBm | | | B/div | |
| Center Fr | | - | | | | | | | | | 0.0 |
| | | | _ | _ | | - | _ | | _ | | 0.0 |
| | | | - | | | - | - | | ~ | | .00 |
| | -13.00 dDm | | | | 1 | | | | | | 0.0 |
| 2.569000000 G | | | | | Ren | all all and a series | and the second s | | | | 0.0 |
| Stop Er | | | | | | | - | | _ | | 0,0 |
| | | | | - | | | | | | | 0.0 |
| | | | | | | | | | | | 0.0 |
| CF St 200.000 k | 1000 GHz 1001 pts) | top 2.57 | Sweep 1 | | 1.0 MHz | #VB | | GHz kHz | 300 | | |
| Auto M | | | EUROPHWORE | FUNCTION | ¥. | | × | _ | 20 EQ | | |
| | | | | | -24.68 dBm | 000 GHz | 2.570 | | 1 1 | N | 2 |
| | | | | | | | | | | | 3 |
| | - | | | | | _ | | | - | - | 5 |
| | | | | | | _ | | | | - | 78 |
| | _ | | | | | | | | | - | 9 |
| | | | - | | | | | | - | | |

Band7 20MHz QPSK 100 0 HighCH21350-2560

Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7

| Keysight Spectrum Analyzer - Swe RL IIF 50 D | | | ALIGN AUTO | | |
|---|-----------------------------|--|-------------------|--|------------|
| Center Freq 699.000 | 000 MHz | Trig: Free Run | Avg Type: Log-Pwr | 03:26:23 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Type A Manual A | Frequency |
| | PNO: Wide H IFGain:Low | #Atten: 30 dB | | DET A NNNNN | |
| Ref Offset 13. 10 dB/div Ref 30.00 d | 1 699.000 MHz -26.79 dBm | Auto Tune Center Freq 699.00000 MHz Start Freq 696.00000 MHz Stop Freq 700.00000 MHz CF Step 200.000 MHz | | | |
| 20.0 | | | | | |
| 10.0 10.0 20.0 | | 1 | | -1300 401 | |
| 30.0 40.0 50.0 | ~~~~~ | mar | | | |
| Start 698.000 MHz Res BW 20 kHz | #VBI | N 62 kHz | | Stop 700.000 MHz .200 ms (1001 pts) | 200.000 kH |
| 1 N 1 f 2 3 4 5 | 699.000 MHz | -26.79 dBm | | | |
| 6 7 8 9 | | | | | |
| 10 11 | | | | | |
| 150 | | | STATUS | | |

Band12 1 4MHz QPSK 1 5 HighCH23173-715.3

| -00- | | ALIGN AUTO | | | | | nalyzar - Sive | trum Ar | ight Spect | Right |
|--------------------------------|---|---------------|----------|--------------------------------|-----------|----------|----------------------|-----------|---------------|-------|
| Frequency | 03:34:23 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Type: Log-Pwr | A | SENSE:1 | AHz | | 16.000 | | er Fre | |
| | DET A NNNNN | | • | Trig: Free Ru #Atten: 30 dB | PMD: Mida | | | - | | |
| Auto Tu | 1 716.000 MHz -20.94 dBm | Mkr | | | | | Offset 13 30.00 c | | |) dB |
| Center Fr | | | | | | | | | | 0g |
| 716.000000 Mi | | | | | m | | | | | 0.0 |
| | | | | 1 | 1 | - | | - | | 1.00 |
| StartFre | -13.00 dDm | _ | | 1- | | | | - | | 0.0 |
| 715.000000 MI | | | | ~ | | | and the second | | | 0.0 |
| | | - | m | - | | - | | - | | 0.0 |
| Stop Fr | mommon | manno | 2 | | | | | + | | 0.0 |
| 717.000000 MI | Same and the | mas | | | | | | + | | 0.0 |
| | | | | | | | | | | 0.0 |
| CF Ste 200.000 ki Auto M | Stop 717.000 MHz 200 ms (1001 pts) | Sweep 6. | | 62 kHz | #VBW | | | | 715.0 BW 2 | |
| Auto M | FUNCTION VALUE | FUNCTION WOTH | FUNCTION | -20.94 dBm | 5.000 MHz | × 716 | | | N 1 | |
| Freq Offs | | | | | | | | | - | 2 |
| 01 | | | | | | | | | - | 4 |
| | | | | | | | | | | 6 |
| | | | | | | | | \square | - | 8 |
| | | | | | | | | | + | 0 |
| | | | | | - | | _ | 1 1 | + | 1 |
| | | STATUS | | | | | | | | a |

Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7

| | | | | | ectrum Analyzer | Keysight Spi R L |
|---------------------------|---|------------------|---------------|-------------------------|------------------------|---------------------|
| Frequency | 03:27:15 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | vg Type: Log-Pwr | SENSE:3NT | DOODOO MHz | | |
| Auto Tur | DET A NNNNN | | #Atten: 30 dB | PNO: Wide IFGain/Low | | |
| Auto Tur | 1 699.000 MHz -28.87 dBm | Mkr | | | Ref Offset Ref 30.0 | dB/div |
| Center Fre | | | | | | 1.0 |
| Start Fre | -13.00 dDr | | ſ | | | |
| 698.000000 MH | | | 15 | | | 0 |
| Stop Fre 700.000000 MH | | | | | | |
| CF Ste | top 700.000 MHz | | | | .000 MHz | |
| 200.000 kH Auto Ma | 200 ms (1001 pts) | Sweep 6. | | × | 20 kHz | |
| Freq Offs 0 F | | | -28.87 dBm | 699.000 MHz | 1 1 | N 1 |
| | | | | | | |
| | | | | | | |
| | | STATUS | | | | 1 |

Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3

| Keynight Spectrum A | | | | | -0- 4- |
|--|---|----------------|-------------------|--|---------------------------------|
| Center Freq 7 | 16.000000 MHz | Trig: Free Run | Avg Type: Log-Pwr | 03:34:49 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Type A usuality | Frequency |
| 10 dB/div Ref | PNO: Wide IFGeinLow Offset 13.6 dB 30.00 dBm | | Mk | 1 716.000 MHz -23.48 dBm | Auto Tun |
| 20.0 10.0 | | | | | Center Fre 716.000000 MH |
| -10.0 -20.0 -30.0 | | had the second | | -13 00 dDn | Start Fre 715.000000 MH |
| 40.0 50.0 60.0 | | | | | Stop Fre 717.000000 MH |
| Start 715.000 Res BW 20 k | Hz #VI | BW 62 kHz | | Stop 717.000 MHz .200 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1 N 1 f 2 3 4 5 6 6 7 8 9 9 10 | 716.000 MHz | -23.48 dBm | | 6 | Freq Offse |
| 11 | | | | | |
| 85G | | | STATUS | | |

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

台灣檢驗科技股份有限公司



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Band12 3MHz QPSK 1 0 LowCH23025-700.5

| | | | | ectrum Analyzer | |
|---|-------------------|----------------|--|------------------------|---------------------------------|
| | Avg Type: Log-Pwr | Trig: Free Run | 50 D DC 0000000 MHz PNO: Wide == | | enter F |
| Mkr1 699.000 MHz -17.61 dBm | Mkr | #Atten: 30 dB | IFGain/Low | Ref Offset Ref 30.0 | 0 dB/div |
| Center Fre 699.000000 MH | | | | | 20.0 10.0 |
| -13 00 dDn 5960.000000 MH | ha | ~12 | | | 10.0 20.0 30.0 |
| Stop Fre 700.000000 MH | | | | ~~~ | 40.0 50.0 |
| Stop 700.000 MHz reep 1.667 ms (1001 pts) Auto Ma | | 120 kHz | | | Res BW |
| Freq Offse | | -17.61 dBm | 699.000 MHz | 1 1 | 1 N 1 23 4 5 6 7 |
| | | | | | 8 9 10 11 |
| ETATUS | STATUS | | | | 53 |

| | | _ | <u> </u> | | | | | | n Amalyzar - 1 | pectru | | |
|----------------------------|------------------------------|----------------|-------------|---------|---------|----------|-------------------------|---------|----------------|--------|-------|--------------------|
| Frequency | TRACE 1 2 3 4 5 6 | 0 03:23: vr | pe: Log-Pwr | Avg | ENSE IN | 1 | Hz | 00000 N | | Free | | l R Cen |
| Auto Tu | 6.000 MHz 15.46 dBm | | Mk | | | #Atten: | PNO: Wide IFGain:Low | | of Offset | | B/div | 10 di |
| Center Fr 716.000000 M | | | | | | 1 | 1 | _ | | | | og 20.0 10.0 |
| Start Fr 715.000000 M | -13 00 dDa | | | | 1_ | | | | ~~~ | | ~ | |
| Stop Fr 717.000000 M | m | mm | | ~ | | | | _ | | | | 0.0 |
| CF St 200.000 F Auto | 717.000 MHz ns (1001 pts) | 1.667 m | Sweep 1 | UNCTION | | V 120 kH | | × | | V 39 | s Bl | Re |
| Freq Off 0 | | | | | 1Bm | -15,46 c | 000 MHz | 710 | | 1 | N | 123456 |
| | | | | | | | | | | | | 7 8 9 0 |
| | | tus | STATU | | | | | | | _ | _ | 50 |

Band12_3MHz_QPSK_1_14_HighCH23165-714.5

Band12_3MHz_QPSK_15_0_LowCH23025-700.5

| | | | | | Analyzer - Swept SA | | |
|---------------------------------|---|---------------------------------|--------------|-----------|---------------------------------|----------------------|---|
| Frequency | 03:10:57 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Autok Auto Avg Type: Log-Pwr | sense::nr | | 50 D DC | r Freq 6 | RL enter |
| Auto Tun | 1 699.000 MHz -26.66 dBm | Mkr | Atten: 30 dB | PNO: Wide | f Offset 13.6 dB f 30.00 dBm | |) dB/di |
| Center Fre 699.000000 MH | | | | | | | 0.0 |
| Start Fre 698.000000 MH | -13.00 4211 | | _ | | | | 0,0 |
| Stop Fre 700.000000 MH | | | | | | | 0.0 |
| CF Ste 200.000 kH Auto Ma | Stop 700.000 MHz 667 ms (1001 pts) | | | #VBV | Hz | 98.000 M 3W 39 kH | Res B |
| Freq Offse 0 H | + | | 6.66 dBm | 9.000 MHz | | 1 1 | 1 N 2 3 4 5 6 7 8 9 |
| | · · | STATUS | | | | 1 | 0 |

Band12 3MHz QPSK 15 0 HighCH23165-714.5

| | Spectrum A | malyzer - Sve | upt SA | | | | | | | -c- 4 🖉 |
|-----------|------------|----------------------|--------|----------|---------------|----------|-----------------|--------------------|-----------------|---------------------|
| RL | 10 | 50 12 | DC | | SENSE: | | ALIGN AUTO | 03:23:37 PM | Aug 13, 2018 | Frequency |
| Center | Freq 7 | 16,000 | 000 MH | Z | Trig: Free Ru | Av | g Type: Log-Pwr | TYPE | 123456 | requeries |
| | | | IF | NO: Wide | #Atten: 30 dE | 3 | | DET | ANNNNN | |
| 10 dB/div | | Offset 13 30.00 c | | | | | Mk | r1 716.00 -23.1 | 00 MHz 7 dBm | Auto Tur |
| 20.0 | | | | | | | | | | Center Fre |
| 10.0 | | | | | | | | | | 716.000000 M |
| 0.00 | | | | | | | | | | 718.000000 M |
| | | | | | | | | | | |
| -1D,D | | | | | 1 | | _ | | -13.00 dDm | Start Fr |
| 20.0 | | | | | - | | | - | | 715.000000 M |
| 30.0 | | | | | | | | | | |
| 40.0 | - | | | | | | | - | | Stop Fr |
| 60.0 | - | | | | | | | | _ | 717.000000 M |
| 60.0 | | | | | | | | - | _ | |
| Start 71 | | | | | | | | Stop 717. | 000 MHz | CF Ste |
| Res BV | | | | #VBW | 120 kHz | | | 1.667 ms (1 | | 200.000 k Auto M |
| MRR MODE | 1 f | | 716.00 | | -23.17 dBm | PUNCTION | FUNCTION WOTH | EUNCTIO | N WALUE | CMAR III |
| 2 | 1 1 | | /16.00 | 0 MHZ | -23.17 dBm | | | | _ | |
| 3 4 | | | | | | | - | | | Freq Offs |
| 5 | | | | | | | | | | |
| 7 | | | | | | | | | _ | |
| 8 | _ | | | | | | | | _ | |
| 10 | | | | | | | | | | |
| 11 | - | - | | - | | | + | | | |
| 50 | | | | | | | STATU | s | | |

Band12_5MHz_QPSK_1_0_LowCH23035-701.5

| Keysight Spectrum Analyzer - Swept SA | | | | |
|--|---|-------------------|--------------------------|---------------------------------|
| RL IV 50 D DC Center Freq 699.000000 I | MHz PNO: Wildo alter Trig: Free Run | Aug Type: Log-Pwr | TRACE 1 2 3 4 5 6 | Frequency |
| Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm | PND: Wide Trig: Free Run IFiSeiniLow #Atten: 30 dB | | 99.000 MHz -21.42 dBm | Auto Tun |
| -og 20.0 10.0 | | | | Center Fre 699.000000 MH |
| 10.0 20.0 30.0 | | | -1300 dDm | Start Fre 698.000000 MH |
| 40.0 | | | [| Stop Fre 700.000000 MH |
| Start 698.000 MHz #Res BW 51 kHz | #VBW 150 kHz | Sweep 1.000 | | CF Ste 200.000 kH Auto Ma |
| I N 1 f 69 2 | 99.000 MHz -21.42 dBm | | | Freq Offse 0 H |
| | | | | |

Band12_5MHz_QPSK_1_24_HighCH23155-713.5

| | 02:07:41 PM Aug 13, 2018 | ALIGN AUTO | | SENSE:1 | | yzer - Swept SA | ectrum Anal | | EM Ka |
|----------------------------|---|-------------------|------|---------------|--------------------|--------------------------|-------------|---------|---------|
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Avg Type: Log-Pwr | | 1 | AHz PNO: Wide * | 6.000000 N | | | |
| Auto Tur | | | | #Atten: 30 dB | IFGain Low | | | | |
| Auto Tu | 1 716.000 MHz -21.42 dBm | Mki | | | | fset 13.6 dB 0.00 dBm | | B/div | |
| Center Fre | | | | | | | | | 20.0 |
| 716.000000 MH | | | | | | - | - | | 10.0 |
| | -13.00 40m | | | 5 | | | | | 10.00 |
| Start Fre 715.000000 Mi | 1.5.65 42.1 | | | 1 | | | s | | 20.0 |
| | | | 0. 0 | ~ | | | | ~ | -30.0 |
| Stop Fre | | The | | | | | - | | 40.0 |
| 717.000000 MH | | | | | | | | | 60.0 |
| CF Ste | Stop 717.000 MHz | | | | | Hz | .000 M | rt 715. | Sta |
| 200.000 kH | .000 ms (1001 pts) | | | 150 kHz | #VB | | 51 kHz | | _ |
| LINKS III | FUNCTION WALVE | ON FUNCTION WOTH | FUN | -21.42 dBm | 5.000 MHz | × 716 | | N 1 | 1 |
| Freq Offs | | | | | | | | - | 2 |
| 01 | | | - | | - | | | - | 4 |
| | | | | | | | \pm | - | 678 |
| | | | | | | | | - | 9 10 |
| | · · | | | | | | + + | - | 11 |
| | | STATUS | | | | | | | ISG |

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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台灣檢驗科技股份有限公司

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Band12_5MHz_QPSK_25_0_LowCH23035-701.5

| -c\$ | | | | | | alyzer - Swept SA | | | |
|---------------------------------|---|---------------|----------|----------------|-------------------------|-----------------------------|-----------------|-------|---------------------------------|
| Frequency | 02:52:28 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN | Type: Log-Pwr | A | Trig: Free Run | Hz | 50 D DC | req 6 | | Cen |
| Auto Tur | 699.000 MHz -27.05 dBm | Mkr | | #Atten: 30 dB | PNO: Wide IFGain:Low | offset 13.6 dB 30.00 dBm | | B/div | 10 d |
| Center Fre 699.000000 MH | | | | | | | | | 20.0 10.0 |
| Start Fre 698.000000 MH | -43.00 dDm | | _ | •1- | | | _ | | 0.00 -10.0 -20.0 -30.0 |
| Stop Fre 700.000000 MH | | | | | | | | | 40.0 60.0 |
| CF Ste 200.000 kF Auto Ma | top 700.000 MHz 00 ms (1001 pts) | Sweep 1. | FUNCTION | 150 kHz | | iz × | .000 M 51 kH | s BW | #Re |
| Freq Offs 0 F | | | | -27.05 dBm | .000 MHz | 69 | 1 | N | 1234567 |
| | | | | | | | | | 8 9 10 11 |
| | | STATUS | | | | | | | 85G |

| | trum Analyzer - Sw | | | | | |
|---------------------------|----------------------------|---------------------------|---------------|-------------------|---|------------------------------|
| RL Enter En | eq 716.000 | | SENSE:INT | Aug Type: Log-Pwr | 03:08:34 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| oner m | eq / 10.000 | PNO: Wide - IFGain Low | #Atten: 30 dB | | DET A NNNNN | |
| 0 dB/div | Ref Offset 13 Ref 30.00 | | | Mk | 1 716.000 MHz -26.30 dBm | Auto Tur |
| 20.0 | | | | | | Center Fre 716.000000 Mil |
| 0.0 | | | 1 | | -12.00 dDm | Start Fr 715.000000 M |
| 30.0 10.0 | | | | | | Stop Fr |
| tart 715.0 | | | | | Stop 717.000 MHz | 717.000000 M |
| Res BW 3 | 51 kHz | × | | | .000 ms (1001 pts) | CF St 200.000 k Auto M |
| 1 N 1 2 3 4 5 | 1 | 716.000 MHz | -26.30 dBm | | | Freq Offs 0 |
| 6 7 8 9 0 | | | | | | |
| | | | ** | 1 | | |
| 80 | | | | STATUS | | |

Band12_5MHz_QPSK_25_0_HighCH23155-713.5

Band12_10MHz_QPSK_1_0_LowCH23060-704

| 0 0 2 | | | | | strum Analyzer - Swept SP | Keysight Spe | | | | | |
|----------------------------------|--|--|------------------|----------------------|---------------------------|--------------------------------|--|--|--|--|--|
| Frequency | 02:41:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Avg Type: Log-Pwr | Trig: Free Run | DOO MHz PNO: Wide | req 699.00000 | | | | | | |
| Auto Tune | | Ref Offset 13.6 BB 447.75 dBm -17.75 dBm -17.75 dBm | | | | | | | | | |
| Center Free 699.000000 MH | | | | | | og 20.0 10.0 | | | | | |
| Start Free 698.000000 MH | ניסגיסע כו- | and the second s | None Contraction | | | 20.0 | | | | | |
| Stop Free 700.000000 MH | | | | ~~~~~ | | 10.0 50.0 50.0 | | | | | |
| CF Stej 200.000 kH Auto Ma | Stop 700.000 MHz 000 ms (1001 pts) | | | #VBW | C SCI. | Res BW | | | | | |
| Freq Offse 0 H | | | -17.75 dBm | 699.000 MHz | 1 | 1 N 1 2 3 4 5 6 | | | | | |
| | | | | | | 7 8 9 10 11 | | | | | |
| | | STATUS | | | | 50 | | | | | |

Band12_10MHz_QPSK_1_49_HighCH23130-711

| Frequency | 02:48:30 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | ALIGN AUTO | | SENSE:1 | DOO MHz | 50 0 | III | | R |
|--------------------------------|---|-------------|----------|--|----------------|-----------------------|----------------|-------|----------------------|
| | DET A NNNN | | | #Atten: 30 dB | PNO: Wide | 10.000 | req | Let r | en |
| Auto Tur | 1 716.000 MHz -15.45 dBm | Mkr | | | | Offset 13. 30.00 d | | B/div | 0 di |
| Center Fre 716.000000 MH | | | | | - | 1 | | | 20.0 |
| Start Fre 715.000000 MH | -13.00 dDn | | a van | · ···································· | and the second | | and the | - | 1.00 10.0 20.0 |
| Stop Fre 717.000000 Mi | mm | m | | | | | | | 40.0 50.0 |
| CF Ste 200.000 ki Auto M | Stop 717.000 MHz .000 ms (1001 pts) | Sweep 1. | | W 300 kHz | #VE | kHz | 5.000 / 100 | s BV | Re |
| | FUNCTION VALUE | NOTION WOTH | FUNCTION | -15.45 dBm | 716.000 MHz | | HC 500 | | 1 |
| Freq Offs 01 | | | | | | | - | 1 | 234567 |
| | | | | | | | | | 7 8 9 0 |
| | | | | | | | - | - | 4 |

Band12_10MHz_QPSK_50_0_LowCH23060-704

| | 02:43:07 PM Aug 13, 2018 | ALTON AUTO | | SENSE:10 | | DC DC | nalyzar - Sw 50 G | ictrum A | | R |
|---------------------------------|---------------------------------------|-------------|----------|----------------|------|---------|----------------------|----------|----------------|------------------------|
| Frequency | TRACE 1 2 3 4 5 4 | pe: Log-Pwr | Avg | Trig: Free Rur | | 000 MHz | | | | |
| Auto Tun | DET A NNNN N | | | #Atten: 30 dB | Wide | | | | | |
| AutoTun | 1 699.000 MHz -26.60 dBm | Mkr | | | | | Offset 13 30.00 | | B/div | 0 dl |
| Center Fre 699.000000 MH | | | | | | | | | | 20.0 |
| Start Fre 698.000000 MH | -13.00 dDn | | ~~~ | ~ in | | | | - | _ | |
| Stop Fre 700.000000 MH | | | | | | | | ~ | | 0.0 |
| CF Ste 200.000 kH Auto Ma | Stop 700.000 MHz 000 ms (1001 pts) | | -UNCEDIN | 00 kHz | #VBW | × | kHz | 100 | t 698. s BW | Re |
| Freq Offse 0 H | | | | 26.60 dBm | MHz | 699.000 | | | N 1 | 12345 |
| | | | | | | | | | + | 6 7 8 9 10 |
| | | | | | | | | | | |

Band12_10MHz_QPSK_50_0_HighCH23130-711

| | | | | | | | | Analyzer - Siv | | | |
|---------------------------------|---------------------------------|-----------|---------------|----------|---------------|--------|--------------|----------------|-------|-------|----------------------|
| Frequency | MAug 13, 2018 CE 1 2 3 4 5 6 | TRAC | ype: Log-Pwr | A | rig: Free Rur | Wide | 000 MHz | | Freq | | en |
| Auto Tur | 00 MHz 57 dBm | r1 716.0 | Mk | | Atten: 30 dB | in:Low | IFG 6 dB | f Offset 13 | | B/div | |
| Center Fre 716.000000 Mi | | | | | | | | | | _ | -og 20.0 10.0 |
| Start Fre 715.000000 Mi | -13.00 dDa | | | ~~~~~ | mt. | L. | 1 | | | | 10.0 20.0 30.0 |
| Stop Fre 717.000000 Mi | | | | | | | | | | _ | 40.0 50.0 60.0 |
| CF Ste 200.000 ki Auto Mi | | .000 ms (| Sweep 1 | | 0 kHz | #VBW | | MHz kHz | / 100 | s BV | Re |
| FreqOffs | ON WALUE | FUNCTO | FUNCTION WOTH | FUNCTION | 5.67 dBm | MHz | × 716.000 | | 1 f | N | 1 2 3 |
| 01 | | | | | | | | | | | 4 5 6 7 |
| | | | | | | | | | | | 8 9 10 11 |
| | | s | STATUS | | | | | | | _ | * |

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

台灣檢驗科技股份有限公司



Band13 5MHz QPSK 1 0 LowCH23205-779.5

| 🗱 Keysight Spectrum Analyzer - | | | | | |
|-------------------------------------|-------------|----------------|-------------------|---|---------------------------------|
| Center Freq 777.0 | 000000 MHz | Trig: Free Run | Avg Type: Log-Pwr | 03:53:27 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| Ref Offset 10 dB/div Ref 30.0 | | #Atten: 30 dB | Mk | r1 777.000 MHz -20.31 dBm | Auto Tune |
| 20.0 10.0 | | | | | Center Free 777.000000 MH |
| -10.0 | | 1- | | -1300-401 | Start Free 776.000000 MH |
| 40.0 50.0 | ~~~~~ | | | | Stop Fre 778.000000 MH |
| Start 776.000 MHz #Res BW 51 kHz | × | | Sweep 1 | Stop 778.000 MHz .000 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1 N 1 f 2 3 4 5 6 | 777.000 MHz | -20.31 dBm | | | Freq Offse 0 H |
| 7 8 9 10 11 | | | | | |
| rso. | | | STATU | 5 | |

| Ref Offset 13 | IFGain:Lo | #Atten: 30 d | un | | TYPE A V | 3456 | |
|-----------------|-------------|--------------|--------------------|--|----------------------------|--|---|
| Ref 30.00 | | | в | Mk | r1 787.000 -19.94 | MHz | Auto Tuni |
| | | | | _ | | | Center Fre 787.000000 MH |
| | | - ' | | | | 00 dDn | Start Fre 786.000000 MH |
| | | | | | | | Stop Fre 788.000000 MH |
| 00 MHz 1 kHz | #\ | /BW 150 kHz | FUNCTION | | 1.000 ms (100 | 1 pts) | CF Ste 200.000 kH uto Ma |
| 1 | 787.000 MHz | -19.94 dBm | | | | .[| Freq Offs 0 F |
| | | | | | | | |
| | kHz | I kHz #\ | 1 kHz #VBW 150 kHz | I kHz #VBW 150 kHz T 787.000 MHz -19.94 dBm | I kHz #VBW 150 kHz Sweep 1 | 0 MHz Stop 78.000 1 KHz Stop 78.000 MHz Stop 78.000 7 787.000 MHz -19.94 dBm Fourtion Fourtion Store Convolution 1 Construction Store Convolution Store Convolution 1 Convolution Store Convolution Store Convolution 1 Convolution Store Convolution Store Convolution 1 Convolution Store Convolution Store Convolution Store Convolution 1 Convolution Store Con | I kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) 7 787.000 MHz -19.94 dBm FUCKION FUCKION FUCKION (1001 pts) |

Band13_5MHz_QPSK_1_24_HighCH23255-784.5

Band13 5MHz QPSK 25 0 LowCH23205-779.5

| Frequency | TRACE 1 2 3 4 5 6 | Log-Pwr | Avg Ty | SUNSE:INT | AHZ | reg 777.000000 M | RL Center Fi |
|----------------------------------|-----------------------------------|---------|--------|--------------------------------|-------------------------|-------------------------------------|-----------------------|
| | DET A NNNNN | | | Frig: Free Run Atten: 30 dB | PNO: Wide IFGain:Low | | |
| Auto Tun | 777.000 MHz -26.00 dBm | Mkr1 | | | | Ref Offset 13.6 dB Ref 30.00 dBm | 10 dB/div |
| Center Fre 777.000000 MH | | | | | | | 20.0 |
| Start Fre 776.000000 MH | -13 00 dDn | | | -1- | | | 10.0 20.0 30.0 |
| Stop Fre 778.000000 MH | | | | | | | 40.0 60.0 60.0 |
| CF Stej 200.000 kH Auto Ma | op 778.000 MHz 0 ms (1001 pts) | | | | #VBW | | Start 776. #Res BW |
| Freq Offse 0 H | [| | | 26.00 dBm | 7.000 MHz | 1 77 | 1 N 1 2 3 4 |
| | | | | | | | 6 7 8 9 |

Band13 5MHz QPSK 25 0 HighCH23255-784.5

| | 04:12:10 PM Aug 11, 2018 | ALTON AUTO | | SENSE:1 | | | malyzer - Si 50 i | ictrum A | | Key R1 |
|--------------------------|-----------------------------|---------------|------|---------------|-----------|--------|----------------------|----------|-------|-----------|
| Frequency | TRACE 1 2 3 4 5 6 | Type: Log-Pwr | | Trig: Free Ru | ИHz | 0000 M | | | | |
| | DET A NNNNN | | | #Atten: 30 dB | PNO: Wide | | | | | |
| Auto Tu | 1 787.000 MHz -26.94 dBm | Mkr | | | | | Offset 1 30.00 | | 3/div | 0 dE |
| Center Fr | | | | | | | | | | 0g |
| 787.000000 M | | | | | | | | | | 10.0 |
| 101,000000 11 | | | | | | | | | | 0.00 |
| | -13 00 401 | _ | | | | _ | | _ | | 1D.D |
| Start Fr 786.000000 M | | | | 1 | | | | | | 20.0 |
| 100.000000 1 | | | ~ | ~ | _ | | | _ | | 30.0 |
| | | | | | _ | - | | _ | | 40.D |
| Stop Fr 788.000000 M | | | | | | | | - | | 50.0 |
| 788.000000 M | | - | | | _ | - | | - | | 50.D |
| CF St | Stop 788.000 MHz | | | | | | | | t 786 | |
| 200.000 k Auto M | .000 ms (1001 pts) | | | 150 kHz | #VBW | | | | s BW | _ |
| | FUNCTION VALUE | FUNCTION WOTH | FUNC | -26.94 dBm | 7.000 MHz | 787 | | | N | |
| Freq Offs | | | | | | | | - | - | 2 |
| . 0 | | | | | | | | | - | 4 |
| | 1 | | | | | | | | - | 6 |
| | | | | | | | | | - | 8 |
| | | | | | | | _ | | - | 9 |
| | · | | | | | | | - | - | 11 |
| | | STATUS | | | | | | | | 80 |

Band13_10MHz_QPSK_1_0_LowCH23230-782

| | 3 PM Aug 13, 2018 | | ALIGN AUTO | | SENSE:1N | | | | SI D | 1UF | | RL |
|----------------------------|-----------------------------|------------------|------------|----------|----------------|---------|------------|--------|-----------------------|-----|--------------|-------------|
| Frequency | TYPE A WWWWW DET A NNNNN | THU | e: Log-Pwr | Avg | Free Run | Tria | NO: Wide - | Da | | | | |
| Auto Tun | | | | | n: 30 dB | #Atte | Gain/Low | IFI | | | | |
| Auto Tun | .000 MHz 5.19 dBm | (r1 777.) -15 | Mk | | | | | | Offset 13. 30.00 c | | 3/div |) dB |
| Center Fre | | | | _ | - | - | | | | _ | | 0.0 |
| 777.000000 MH | | 1 | 1 | | - | - | - | | | - | | 0.0 |
| | 100000 | | 1 | m | //81 | | | | | | | 0.0 |
| Start Fre 776.000000 MH | -13.00 42.9 | | | | John | han | | | | | | 0.0 |
| 776.00000 MP | | | | _ | _ | - | m | | | _ | | 0.0 |
| Stop Fre | | - | | _ | _ | - | - | m | and for | | | 0.0 |
| 778.000000 MH | | - | - | - | - | - | - | | Na. Ca | ww | s nord | 0,0 |
| | | | | | | | | | | | | 0.0 |
| CF Ste 200.000 kH | 78.000 MHz s (1001 pts) | Stop 773 | Sween 1 | | H7 | W 300 k | #VB | | | | t 776. BW | |
| Auto Ma | | | Check Man | HUNCTION | | 1000 1 | | × | | | | _ |
| | | | | | 9 dBm 6 dBm | -15.1 | | 777.00 | | 1 | N 1 | 1 2 |
| Freq Offse | | | | | 7 dBm | -14.0 | 4 MHz | 776.95 | | 1 | N 1 | 3 |
| 01 | • | | | | | | | | | | | 5 |
| | | | | | | | - | | | | | 6 7 8 |
| | | | | | - | | _ | | | | - | 9 |
| | | | | - | - | | | | _ | 1 1 | + | 1 |
| | | JS | STATUS | | | | | | | | | a |

Band13_10MHz_QPSK_1_49_HighCH23230-782

| - 0- III - | the second second second second | | | Analyzer - Swept SA | | |
|---------------------------------|---|-------------------|--------------------------|---|-------------------|--------------------|
| Frequency | 03:39:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Avg Type: Log-Pwr | Trig: Free Run | F 50 D DC | · | R |
| Auto Tur | 1 787.000 MHz -14.91 dBm | Mkr | #Atten: 30 dB | PNO: Wide IFGainiLow f Offset 13.6 dB | | l0 di |
| Center Fre 787.000000 Mi | | | | | | og 20.0 10.0 |
| Start Fre 786.000000 Mi | -13.03 42m | m | 12 Marting | | | |
| Stop Fre 788.000000 Mi | mum | m | | | | 0.0 |
| CF Ste 200.000 kit Auto M | Stop 788.000 MHz .000 ms (1001 pts) | | W 300 kHz | kHz #VI | t 786.0 s BW 1 | Re |
| Freq Offs 01 | 6 | | -14.91 dBm -13.33 dBm | 787.000 MHz 787.030 MHz | N 1 N 1 | 1234567 |
| | | | | | | 8 9 10 |
| | 1 | STATUS | | | | 50 |

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Band13 10MHz QPSK 50 0 LowCH23230-782

| | | | | ulyzar - Swept SA | | |
|---------------------------------|--|-------------------|---------------|-------------------------|------------------------|--------------------------|
| Frequency | 03:40:14 PMAug 13, 2018 TRACE 1 2 3 4 5 6 | Avg Type: Log-Pwr | SUMSE:DUT | 77.000000 MHz | | enter F |
| Auto Tun | 1 777.000 MHz -24.12 dBm | Mk | #Atten: 30 dB | PNO: Wide IFGein Low | | |
| Center Fre 777.000000 MH | | | | 30.00 dBm | Ref 30.0 | 0.0 dB/div |
| Start Fre 776.000000 MH | -13 00 dDn | www. | l | | | 0.0 |
| Stop Fre 778.000000 MH | | | | | | 0.0 |
| CF Ste 200.000 kH Auto Ma | Stop 778.000 MHz .000 ms (1001 pts) | Sweep 1 | | Hz #VE | 5.000 MHz / 100 kHz | Res BW |
| Freq Offse 0 H | | | -24.12 dBm | 777.000 MHz | 1 1 | 1 N 2 3 4 5 6 7 |
| | | | | | | 8 9 0 1 |
| | | STATU | | | | a |

| Ref Offset 13.6 dB Mkr1 787.000 MHz 20 | Frequency |
|--|---------------------------|
| Normalize Program | |
| 0 eBlaiv Ref 30.00 dBm -24.61 dBm -24.61 dBm - 24.61 dBm - 25.00 d | |
| 300 100 100 100 100 100 100 100 | Auto Tu |
| 1 | Center Fr 787.000000 M |
| 00 00 00 00 00 00 00 00 00 00 00 00 00 | Start Fr 786.000000 M |
| | Stop Fr 788.000000 M |
| Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) Automatical Examples and the second sec | CF Sto 200.000 k |
| N 1 7 787.000 MHz -24.61 dBm 4 - | Freq Offs 0 |
| | |
| a status | |

Band13_10MHz_QPSK_50_0_HighCH23230-782

Band14_5MHz_QPSK_1_0_LowCH23305

| MHZ | ALIGN AUTO 02:59:00 PM Aug 22 Avg Type: Log-Pwr TRACE 1 2 3 | 45.6 Frequency |
|--|--|---|
| PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB | DET A N | |
| | Mkr1 788.000 N -19.60 d | |
| | | Center Free 788.000000 MH |
| 1=4 | | Start Free 787.000000 MH |
| ~ | | Stop Free 789.000000 MH |
| #VBW 150 kHz | Stop 789.000 Sweep 1.000 ms (1001 | pts) 200.000 kH |
| 88,000 MHz -19.60 dBm | | Freq Offse |
| | | |
| | #GainLow #Atten: 30 dB | PRO: Wide - Frig: Free Run PrG: Wide |

Band14 5MHz QPSK 1 24 HighCH23355

| -00- | 30 PM Aug 22, 2018 | | ALTON AUTO | | SENSE:1 | | | n Analyzar - S | | | R R |
|-------------------------------|------------------------------|--------------|---------------|----------|--------------------------------|---------|---------------|-------------------------|-----|-------|--------------|
| Frequency | TRACE 1 2 3 4 5 6 | 1 | pe: Log-Pwr | | 56166:1 | | 0000 MHz | | | | |
| | DET A NNNNN | | | ' | Trig: Free Ru #Atten: 30 dB | O: Wide | PN | 130,00 | 164 | 101 1 | -01 |
| Auto Tu | 8.000 MHz 21.19 dBm | r1 798 -2 | Mki | | | | 8.6 dB dBm | ef Offset 1 ef 30.00 | R | B/div | l0 di |
| Center Fr | | | | | | ~ | 1 | | _ | | 20.0 |
| 100.00000 11 | | | - | | | | | | | - | 0.00 |
| Start Fr 797.000000 M | -13.00 dOn | - | - | _ | 1 | | | ~ | ~ | 0 | 10.0 20.0 |
| | | | | ~~~~ | | | | | | | 30.0 40.0 |
| Stop Fr 799.000000 M | | | | | | | | | | | 60.0 |
| CF Sto 200.000 k Auto M | 799.000 MHz ns (1001 pts) | .000 m | Sweep 1 | | 150 kHz | #VBW | | | 51 | s BV | Re |
| | ALICH VALUE | FOR | -CAGELON WOLF | FORCITON | -21.19 dBm | MHz | 798.000 | | 1 1 | N | 1 |
| Freq Offs 0 | | | | | | _ | | | - | | 3456 |
| | | | | | | - | | - | + | | 6789 |
| | | | | | | | | | | | 10 |
| | | | STATUS | | | | | | | | 50 |

Band14_5MHz_QPSK_25_0_LowCH23305

| | | | | | | Analyzer - Swept SA | | | |
|----------------------------------|---|---------------|----------|----------------|------------|-------------------------------|------|----------------|-------------------------|
| Frequency | 03:00:31 PM Aug 22, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN | Type: Log-Pwr | Av | Trig: Free Run | AHz | 50 R DC | | | |
| Auto Tune | 1 788.000 MHz -25.68 dBm | Mkr | | #Atten: 30 dB | IFGain/Low | Offset 13.6 dB f 30.00 dBm | | B/div | |
| Center Free 788.000000 MH | -20.00 0.00 | | | | | 1 30.00 dBm | H | | 20.0 10.0 |
| Start Free 787.000000 MH | -13.00 dDn | | 1 | ! | | | | | -10.0 -20.0 -30.0 |
| Stop Free 789.000000 MH | | | | | | | _ | - | -40.0 -50.0 |
| CF Stej 200.000 kH Auto Ma | top 789.000 MHz 000 ms (1001 pts) | | FUNCTION | 150 kHz | | Hz | V 51 | rt 78 es BV | #Re |
| Freq Offse 0 H | | | | -25.68 dBm | 8.000 MHz | 78 | 1 | N | 123456789 |
| | | STATUS | | | | | | | 10 11 * |

Band14_5MHz_QPSK_25_0_HighCH23355

| | | n Analyzer - Swept SA | | | BAL Ke |
|------------------------|----------------|-----------------------------------|------------------------|------------------------|------------------------------|
| Avg Type: Log-Pwr | Trig: Free Run | 798,000000 MHz | req 798 | | |
| Mkr | #Atten: 30 dB | PNO: Wide IFGein:Low | | | _ |
| | | ef Offset 13.6 dB ef 30.00 dBm | | B/div | 10 di |
| | | | | - | 20.0 |
| | | | | | 10.0 |
| | 1 | | | | 10.0 |
| | 1- | | | - | 20.0 |
| | | | | | 30.0 |
| | | | | - | 60,D |
| | | | | | -60.0 |
| Sweep 1. | BW 150 kHz | | .000 MH 51 kHz | | |
| FUNCTION FUNCTION WOTH | 27.87 dBm | | | | |
| | | | | - | 23 |
| | | | | - | 4 5 6 |
| | | | | - | 7 |
| | | | | | 9 10 11 |
| | | + + | | - + | 끈 |
| STATUS | EUNCTION FUNCT | -27.87 dBm | 798.000 MHz -27.87 dBm | f 798.000 MHz27.87 dBm | N 1 1 798.000 MHz -27.87 dBm |

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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Band14_10MHz_QPSK_1_0_LowCH23330

| Keysight Spectrum Analyzer - Swept SA | | | | |
|---|--|---------------|--|--------------------------------|
| RL IIF 50 D DC | PNO: Wide Trig: Free Rur | Avg Type: RMS | 02:25:52 PM Aug 22, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | Frequency |
| Ref Offset 13.6 dB | IFGein:Low #Atten: 30 dB | Mk | r2 787.980 MHz -14.868 dBm | Auto Tun |
| 20.0 | | | | Center Fre 788.000000 MH |
| 0.0 | 21 Journal Contraction | www.ww | -1300.903 | Start Fre 787.000000 Mi |
| 0.0 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | | | | Stop Fro 789.000000 Mi |
| tart 787.000 MHz Res BW 100 kHz | #VBW 300 kHz* | Sweep 1 | Stop 789.000 MHz .000 ms (1001 pts) | CF Ste 200.000 ki Auto M |
| 1 N 1 f 78 2 N 1 f 78 3 4 5 | 8.000 MHz -14.309 dBm 7.980 MHz -14.868 dBm | | | Freq Offs 01 |
| 6 7 8 9 10 | | | | |
| 50 | * | ETATU | | L |

| | MAup 22, 2018 | 01.10.00.00 | ALTON AUTO | | INST-INT | | | Swept SA | am Amalyzar - | t.Spectr | aysigh R L |
|---------------------------|------------------|-------------------|------------|---------|----------|------------|--------------|----------|------------------------|----------|---------------|
| Frequency | | TRAC | RMS | Avg Typ | | | PNO: Wide | u pe j | in 12 | | |
| Auto Tur | | | | | | #Atten: 3 | FGain!Low | | | | |
| Auto Tu | 40 MHz 81 dBm | r2 798.0 -14.1 | Mk | | | | | | Ref Offset Ref 30.0 | | dB/di |
| Center Fre | | | | | | | | | / | | - |
| 798.000000 MH | | | | | | | \checkmark | | / | | |
| StartFre | -13.00 401 | | | | 2 | man | ~~ | | 1 | ~~ | ~ |
| 797.000000 MH | | | | and the | m | | - | - | - | | 0 |
| | | www. | www | | | | | | | | |
| Stop Fre 799.000000 Mi | m | - 0 00 | | | | | - | - | - | | |
| CF Ste | 000 MHz | Stop 799 | | | | | | | 0 MHz | 07.0 | |
| 200.000 ki Auto Ma | 1001 pts) | .000 ms (| Sweep 1 | | * | V 300 kHz | #VB | | 0 kHz | | |
| Auto ma | IN WALLIE | FUNCTO | DECOMPOSE | NCTION | | -13,360 di | 00 MHz | × 798 | 1 | | N |
| Freq Offs | | | | | Bm | -14.181 di | 40 MHz | | î | 1 | N |
| 01 | | | | | - | | - | | _ | | |
| | _ | | | | - | | | | | | |
| | | | | | - | | - | | _ | | |
| | | | | | - | | - | | - | | - |
| | | s | STATU | | | | | | | | |

Band14_10MHz_QPSK_1_49_HighCH23330

Band14_10MHz_QPSK_50_0_LowCH23330

| MHz | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 | Frequency |
|--|--|--|---|
| PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB | | DETANNNN | |
| | | | Auto Tun |
| | | | Center Fre 788.000000 MH |
| | | -13.00 dan | Start Fre 787.000000 MH |
| | | | Stop Fre 789.000000 MH |
| #VBW 300 kHz | Sweep 1.000 n | ns (1001 pts) | CF Ste 200.000 kH uto Ma |
| 88.000 MHz -23.21 dBm | | | Freq Offse 0 H |
| | | | |
| | PNO Wide Trg: Pree Run PRO Mide Trg: Pree Run #Xten: 30 dB | Avg Type: Log-Per PIC: Wide Trig: Free Run PiCeleLow Mide Trig: Free Run Avg Type: Log-Per Mkr1 78 | MHz PRO; Wids Trig: Free Run extent to other action: 10 off Avg Type: Log-Rwr Type: Log-Rwr Mkr1 788.000 MHz -23.21 dBm Mkr1 788.000 MHz -23.21 dBm -23.21 dBm #VBW 300 kHz Swep 1.000 ms (1001 pts) |

Band14_10MHz_QPSK_50_0_HighCH23330

| Frequency | TRACE 1 2 3 4 5 6 | 02:27:1 | Log-Pwr | Aval | ENSE: IN | 54 | Ll-2 | 0000 MI | 50 | 10 | or Er | RI |
|-------------------------------|------------------------------|--------------|------------|---------|----------|-----------|---------------|------------|-------------------|----------------|-------|----------------------------|
| | DET A NNNNN | | | | | #Atten: 3 | PNO: Wide * | | 30.00 | oq / | OI FI | -011 |
| Auto Tu | 8.000 MHz 23.67 dBm | r1 798 -2 | Mk | | | | in country of | 3.6 dB | Offset 1 30.00 | | Vdiv | 0 dE |
| Center Fr 798.000000 M | | | | | | | _ | | | | | 20.0 10.0 |
| Start Fr 797.000000 M | -13 00 dDa | | | | •1 | ····· | ~~~~ | | | | | 10,0 20,0 30,0 |
| Stop Fr 799.000000 M | | | | | | | | | | | | 40,0 50,0 |
| CF Sto 200.000 k Auto M | 799.000 MHz ns (1001 pts) | .000 m | Sweep 1 | | z | V 300 kHz | #VB | | kHz | 000 I 100 I | BW | Re |
| Freq Offs | INCTION VALUE | FUN | E TON WOTH | INCTION | 1Bm | -23.67 d | 000 MHz | × 798.0 | | 1 | N 1 | 1 2 3 |
| 0 | | | | | | | | | | | | 4 5 6 7 8 9 |
| | • | | STATUS | | | ** | | | | | | 1 |

Band17_5MHz_QPSK_1_0_LowCH23755

| Keysight Spectrum Analyzer - Swept SA | | and the second | -c4- 🛋 |
|---|---------------------------------|--|----------------------------------|
| Center Freq 704.000000 | MHz PNO: Wide Trig: Free Run | ALIGN AUTCI 04:45:42 PM Aug 13, 2018 Avg Type: Log-Pwr TRACE 1: 2: 3:4:5:6 Type: d www.ww | Frequency |
| Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm | IFGain:Low #Atten: 30 dB | Mkr1 704.000 MHz -22.03 dBm | Auto Tune |
| 20.0 10.0 | | | Center Fre 704.000000 MH |
| -10.0 | 1.22 | | Start Fre 703.000000 MH |
| 40.0 | | | Stop Fre 705.000000 MH |
| Start 703.000 MHz #Res BW 51 kHz | #VBW 150 kHz | Stop 705.000 MHz Sweep 1.000 ms (1001 pts) | CF Stej 200.000 kH Auto Ma |
| 1 N 1 f 7 2 3 4 6 | 04.000 MHz -22.03 dBm | | Freq Offse 0 H |
| 7 8 9 10 11 | | | |
| 450 | | STATUS | |

Band17_5MHz_QPSK_1_24_HighCH23825

| | | | | | | /zer - Swept SA | | | |
|---------------------------|---|-------------------|-----|------------|-------------------------|-------------------------|------------------|-------|---------------|
| Frequency | 04:53:00 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Avg Type: Log-Pwr | Run | | MHz | 50 D DC | req 71 | | Cen |
| Auto Tur | 1 716.000 MHz | Mk | | #Atten: 30 | PNO: Wide IFGain:Low | | | | |
| | -22.36 dBm | MIKI | | | | set 13.6 dB 0.00 dBm | | B/div | 10 di |
| Center Fre | | | | | - | | _ | - | 20.0 |
| 716.000000 Mi | | | | | / | | | | 10.0 |
| StartFre | -13.00 dDm | | 1= | ~ | - | ~ | _ | | -1D,D |
| 715.000000 MH | | | - | | | | ~ | - | -20.0 |
| | | ~~~~ | | | _ | | | | 40.0 |
| Stop Fre 717.000000 Mi | | | | - | | | - | | -60.0 |
| | | | | | | | | | |
| CF Ste 200.000 ki | Stop 717.000 MHz .000 ms (1001 pts) | | | W 150 kHz | #VE | 12 | 000 MH 51 kHz | | |
| Auto Ma | FUNCTION WALVE | ION FUNCTION WOTH | | -22.36 dB | 6.000 MHz | × 71 | | N 1 | 1 |
| Freq Offs | | | - | | | | | - | 2 3 4 |
| 01 | | | - | | | | ++ | - | 5 |
| | | | | | | | | | 7 |
| | | | - | | | | | - | 9 10 11 |
| | | | | | | | | | < [|

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Band17 5MHz QPSK 25 0 LowCH23755

| | | | | | | lyzer - Swept SA | | | |
|---------------------------|---|---------------|----------|--------------------------------|-------------------------|----------------------------|----------------|----------|--------------|
| Frequency | 04:46:46 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Type: Log-Pwr | + | SENSE:1 | ИHz | 50 R DC | req 70 | | Cen |
| Auto Tur | DET A NNNN N | | n | Trig: Free Ru #Atten: 30 dB | PNO: Wide IFGain:Low | | | | |
| AutoTur | 704.000 MHz -29.15 dBm | Mkr | | | | ffset 13.6 dB 30.00 dBm | | B/div | 10 d |
| Center Fre | | _ | | | | | | | 20.0 |
| 704.000000 MH | | | | | | | | | 10.0 |
| Start Fre | -13 00 dDm | | / | | | | | | 10,0 |
| 703.000000 MH | | | ~ | •1- | - | | | - | 20.0 |
| | | | | | | | | ~ | 30 0 40 0 |
| Stop Fre 705.000000 MH | | - | | | | | _ | <u> </u> | 60,0 |
| | | | | | | | | | 60.0 |
| CF Ste 200.000 ki | top 705.000 MHz 00 ms (1001 pts) | Sweep 1. | | 150 kHz | #VBW | | 000 M 51 kH | | |
| Auto Ma | FUNCTION WALUE | FUNCTION WOTH | FUNCTION | -29.15 dBm | 4.000 MHz | 704 | | N 1 | |
| Freq Offs 0 F | | | | | | | | | 2345 |
| | | | | | | | | - | 6 7 8 |
| | | | | | | | ++ | - | 9 10 |
| | | | | | - | | 1 1 | - | 11 |
| | | STATUS | | | | | | | 53 |

| | | <u> </u> | | |
|-------------------------|---------------|--|---|---|
| 000000 MHz | | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 | Frequency |
| PNO: Wide IFGain:Low | #Atten: 30 dB | | DET A NNNN | |
| | | Mk | r1 716.000 MHz -26.68 dBm | Auto Tun |
| | | | | Center Fre 716.000000 MH |
| | hand - | | -13.00 dDn | Start Fre 715.000000 Mi |
| | | | | Stop Fre 717.000000 Mi |
| | | Sweep 1 | .000 ms (1001 pts) | CF Ste 200.000 k Auto M |
| 716.000 MHz | -26.68 dBm | | | Freq Offs 01 |
| | | | | |
| | *#Gaini.cov | SID C ALL CALL CALL CALL CALL CALL CALL CA | AUD APPO 000000 ML/s Trig: Free Run PRO: Wilds Trig: Free Run #Attain: 30 dB 00 dBm #VBW 150 kHz #VBW 150 kHz Sweep 1 X 100 kHz | 300 Extract PM Autor AUTO BA32.25 PM Aug 12,2014 0000000 MHz Trig: Free Run PMC Middow Trig: Free Run PMC Middow Avg Type: Log-Rwn Trig: Extraction Run PMC Middow 11 36 dB Mkr1 716.000 MHz Trig: Free Run PMC Middow Mkr1 716.000 MHz 11 36 dB Mkr1 716.000 MHz -26.68 dBm -338.60 11 36 dB Stopp 717.000 MHz -338.60 #VBW 150 kHz Sweep 1.000 ms (1001 pts) -338.60 |

Band17_5MHz_QPSK_25_0_HighCH23825

Band17_10MHz_QPSK_1_0_LowCH23780

| RL IUF 50 D DC | SENSE:3NT | ALIGN AUTO 04 | 1:30:56 PM Aug 13, 2018 | |
|--|--|--|--|----------------------------------|
| Center Freq 704.000000 | MHz PNO: Wide IFGainiLow #Atten: 30 dB | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TVPE A WWWWW DET A NNNNN | Frequency |
| Ref Offset 13.6 dB 0 dB/div Ref 30.00 dBm | in openicow white in the state | Mkr1 7 | 704.000 MHz -17.39 dBm | Auto Tune |
| 20.0 | | | | Center Free 704.000000 MH |
| 20.0 | - www. | North Contraction of the contrac | SCB ODEL | Start Free 703.000000 MH |
| 40.0 50.0 60.0 | | | | Stop Free 705.000000 MH |
| Start 703.000 MHz #Res BW 100 kHz | #VBW 300 kHz | | p 705.000 MHz 0 ms (1001 pts) | CF Step 200.000 kH uto Mar |
| | 04.000 MHz -17.39 dBm | | | Freq Offse 0 H |
| 9 | | | | |

Band17 10MHz QPSK 1 49 HighCH23800

| | 04:29:06 PM Aug 13, 2018 | ALIGN AUTO | eri | SENSE:10 | | | nalyzar - Sw 50 D | H.F. | | RI | | |
|----------------------------|---------------------------------------|---------------|----------|---------------------------------|-------------------------|--------------------|----------------------|------|--------------|------------------|--|--|
| Frequency | TRACE 1 2 3 4 5 6 | ype: Log-Pwr | A | | Hz | 0000 MH | 16.000 | eq 7 | ter Fr | en | | |
| | DET A NNNN | | 1 | Trig: Free Run #Atten: 30 dB | PNO: Wide IFGain:Low | PI | | | | | | |
| Auto Tu | 1 716.000 MHz -16.54 dBm | Mkr | | | | Ref Offset 13.6 dB | | | | | | |
| Center Fr 716.000000 Mi | | | | | | - | 1 | | | 20.0 10.0 | | |
| Start Fre | -13 00 401 | | ~ | 1- | how | | | ~ | m | 0.00 10.0 | | |
| 715.000000 Mi | | m | - Andrew | | | | | | | 20.0 30.0 | | |
| Stop Fre 717.000000 Mi | V-Man wanter | be | | | | | | | | 40,0 50,0 | | |
| CF Ste 200.000 ki | Stop 717.000 MHz 000 ms (1001 pts) | Sweep 1. | | 300 kHz | #VBW | | kHz | 100 | t 715. BW | Re | | |
| | FUNCTION VALUE | FUNCTION WOTH | FUNCTION | -16.54 dBm | 000 MHz | 716.00 | | | N 1 | 1 | | |
| Freq Offs 01 | | | | | | | | | - | 2345 | | |
| | | | | | | | | | + | 6 7 8 9 | | |
| | | | | | | | | | | 1 | | |
| | | STATUS | | | | | | | | 80 | | |

Band17_10MHz_QPSK_50_0_LowCH23780

| Rt INF | Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 Frequency |
|---|---|
| Ref Offset 13.6 dB Ref 30.00 dBm Re | Mkr1 704.000 MHz -27.31 dBm Center Fre 704.00000 MH |
| 10.dtd/w Ref 30.00 dBm | -27.31 dBm Center Fre 704.000000 MH |
| | 704.000000 MH |
| 100 | |
| -10.0 | StartFre |
| 200 | |
| | |
| 40.0 | |
| 50.0 | Stop Fre 705.000000 MH |
| -60.0 | |
| Start 703.000 MHz #Res BW 100 kHz #VBW 300 kHz | Stop 705.000 MHz CF Ste Sweep 1.000 ms (1001 pts) 200.000 kH |
| 1 N 1 f 704.000 MHz -27.31 dBm | FUNCTION FUNCTION WOTH FUNCTION ALUE Auto Ma |
| 3 | FreqOffse |
| 4 5 6 | он |
| 6 7 8 9 | |
| 10 11 | |
| *[" | STATUS |

Band17_10MHz_QPSK_50_0_HighCH23800

| Center Freq 716,000000 MHz Breakin: 20 db Avg Type: Log-Per Trig: Free Run Breakin: 20 db Trig: Free Run Brea | Keysight Spo R.L. | etrum Analyzar | | | | | | | | | |
|--|---------------------------|----------------|-----------|----------|------------|---|--------|-----------|------------|------------|--------------------------------|
| Ref Offset 136.dB Mkr1 716.000 MHz Auto Ti 0 Blidity Ref 30.00 dBm -25.82 dBm -25.82 dBm 0 Blidity Ref 30.00 dBm -25.82 dBm -25.82 dBm 0 Blidity Ref 30.00 dBm -25.82 dBm -25.82 dBm 0 Blidity Ref 30.00 dBm -25.82 dBm -25.82 dBm 0 Blidity Ref 30.00 dBm -25.82 dBm -25.82 dBm 0 Blidity Ref 30.00 dBm -25.82 dBm -25.82 dBm 0 Blidity Ref 30.00 MHz Storp F17.000 MHz Storp F17.000 MHz 1 Blidity FVBW 300 KHz Storp F17.000 MHz -25.82 dBm 2 N 1 f 716.000 MHz -25.82 dBm 3 d - - - 3 d - - - 3 d - -< | | | 00000 MHz | | | | | | TRACE | 123456 | |
| -64 -64 Center F 100 -130.00 -130.00 -130.00 000 -130.00 -130.00 -130.00 -130.00 000 -100 -130.00 -130.00 -130.00 -130.00 000 -100 -130.00 - | 0 dB/div | | 13.6 dB | io: Wide | | | | Mk | 1 716.00 | 00 MHz | Auto Tur |
| 100 | .og 20.0 10.0 | Act out | | | | | | | | | Center Fre 716.000000 MH |
| Stop F Stop F 1 <td< td=""><td>20,0</td><td></td><td></td><td>Porte</td><td>•</td><td>-</td><td></td><td></td><td></td><td>-13.00 dOn</td><td>Start Fre 715.000000 MH</td></td<> | 20,0 | | | Porte | • | - | | | | -13.00 dOn | Start Fre 715.000000 MH |
| Res BW 100 kHz #VBW 300 kHz Sweep 1.00 ms (1001 pts) 200,000 1 1 1 716,000 MHz -26.82 dBm FUTURE to the second s | 50, D | | | | | _ | | | | | Stop Fre 717.000000 Mi |
| I I I T T16.000 MHz -25.82 dBm I I I I T16.000 MHz -25.82 dBm Image: Comparison of the com | Res BW | 100 kHz | | #VBV | V 300 kHz | | | | .000 ms (1 | 001 pts) | CF Ste 200.000 ki Auto M |
| 7 | 1 N 1 2 3 4 5 | 7 | 716.000 | 0 MHz | -25.82 dBm | | ON FUR | CTON WOTH | FUNCTO | N WALLEE | Freq Offs |
| | 7 8 9 10 | | | | | | | | | 3 | |
| SG STATUS | | | | | ** | ' | | | | | |

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

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

台灣檢驗科技股份有限公司



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Band25 1 4MHz QPSK 1 0 LowCH26047

| 🗱 Keysight Spectrum Analyzer - Swept SA | | | | And the first state in the second | |
|---|---------------------|------------|-------------------|---|---------------------------------|
| Center Freq 1.85000000 | 00 GHz | sense and | Avg Type: Log-Pwr | 06:40:32 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| Ref Offset 13.9 db | IFGeiniLow #Atter | : 30 dB | Mkr1 | 1.850 000 GHz -22.96 dBm | Auto Tun |
| 20.0 10.0 | | F | ~ | | Center Fre 1.850000000 GH |
| -10.0 | | 91 <u></u> | 1 more | -1300 dDa | Start Fre 1.849000000 GH |
| 40.0 50.0 60.0 | | | | | Stop Fre 1.851000000 GH |
| Start 1.849000 GHz #Res BW 20 kHz | #VBW 62 kH | | Sweep 6 | top 1.851000 GHz .200 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1 N 1 f 1. 2 3 4 5 6 6 | .850 000 GHz -22.96 | dBm | | | Freq Offse 0 H |
| 7 8 9 10 11 | | | | | |
| esc. | | | STATUS | | |

| RL | req 1.91500 | DC 0000 GHz PNO: Wide = | Trig: Free Run #Atten: 30 dB | Ave | ALIGN AUTO | 06:47:27 PM Aug 11, 21 TRACE 1 2 3 4 TIPE A WWW DET A NNN | s + Frequency |
|--------------------------------|--|----------------------------|---------------------------------|----------|------------|--|------------------------------|
| 10 dB/div | Ref Offset 13. Ref 30.00 d | | #Atten: 30 dB | | Mkr1 | 1.915 000 GH -20.26 dB | Auto Tur |
| 20.0 | | | 7 | | | | Center Fre 1.915000000 GR |
| 10.00 10.0 20.0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 1 | | | -13.00 - | 5tart Fre |
| 40.0 50.0 50.0 | | | | | man | m | Stop Fr 1.916000000 G |
| tart 1.91 Res BW | | #VB | N 62 kHz | FUNCTION | | Stop 1.916000 G .200 ms (1001 p | |
| 1 N 1 2 3 4 5 6 | f | 1.915 000 GHz | -20.26 dBm | | | | Freq Offs |
| 7 8 9 10 11 | | | | | | | |
| * | | | | | STATU | 5 | |

Band25_1_4MHz_QPSK_1_5_HighCH26683

Band25_1_4MHz_QPSK_6_0_LowCH26047

| t Spectrum Analyzer - Swept SA | | and the second second | | |
|---|-----------------------|-----------------------|---|-------------------------------|
| Freq 1.850000000 GHz | Trig: Free Run | Avg Type: Log-Pwr | 06:41:31 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| PNO: Wide IFGeiniLow Ref Offset 13.9 dB | #Atten: 30 dB | Mkr1 | 1.850 000 GHz | Auto Tune |
| Ref 30.00 dBm | | | -28.19 dBm | |
| | | | | Center Free 1.850000000 GH |
| | | | | |
| | | | -13 00 401 | Start Free |
| | ↓ ¹ | | | 1.849000000 GH |
| man market and | | | | |
| | | | | Stop Fre 1.851000000 GH |
| | | | | 1.65100000 611 |
| .849000 GHz W 20 kHz #VBW | 62 kHz | | top 1.851000 GHz 200 ms (1001 pts) | CF Ste 200.000 kH |
| 1 f 1.850 000 GHz | -28.19 dBm | TION FUNCTION WOTH | FUNCTION VALUE | Auto Ma |
| 1 T 1.850 000 GHZ | -28.19 dBm | | | Freq Offse |
| | | | | он |
| | | | | |
| | | | | |
| 1 | | | · · · | |
| | | STATUS | | |

Band25 1 4MHz QPSK 6 0 HighCH26683

| Frequency | 06:47:53 PM Aug 13, 2018 | ALIGN AUTO | | SENSE:1 | | 50 D DC | 101 | | R |
|---------------------------|---|--------------|----------|---------------|--|-------------------------|---------|---------|-------------|
| Frequency | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | pe: Log-Pwr | Avg | Trig: Free Ru | GHz PNO: Wide == | 15000000 | eq 1.91 | ter Fre | Cen |
| | DETANNNN | | | #Atten: 30 dB | IFGain:Low | | | | |
| Auto Tu | .915 000 GHz -24.84 dBm | Mkr1 | | | | set 13.9 dB 0.00 dBm | | 3/div | |
| Center Fr | | | | | | | | | 20.0 |
| 1.915000000 G | | | | | _ | | | | 10.0 |
| | | | | 1 | and the second s | | ~~~~ | | 0.00 |
| Start Fre | -13 00 dDm | _ | | 1 | | | _ | | -1D.D |
| 1.914000000 G | | | | 1 | _ | | _ | | -20,0 |
| | | | m | www | | | _ | | 30.0 |
| 04 E | m | - | | | _ | | _ | | 40.0 |
| Stop Fre 1.916000000 G | | - | | | | | - | | 60 D |
| 1.010000000 | | - | | | | | - | | 60.0 |
| CF Ste 200.000 ki | op 1.916000 GHz | S | | 62 kHz | | Hz | 1000 GH | | |
| Auto M | 00 ms (1001 pts) | | | 62 KHZ | #VB | | | | |
| | FUNCTION VALUE | UNCTION WOTH | FUNCTION | -24.84 dBm | 5 000 GHz | 1.91 | | N 1 | uka 1 |
| Freq Offs | | | | | | | | - | 2 |
| 01 | | | | | | | | | 4 |
| | | | | | | | | | 6 |
| | | | | | | | | | 6 7 8 |
| | | | | | | | | | 9 10 |
| | · · · | | | | | | | - | 11 |
| | | STATUS | | | | | | | 50 |

Band25_3MHz_QPSK_1_0_LowCH26055

| reprt SA | | | | -c- 4 🕰 |
|---------------|--|--|--|--|
| 00000 GHz | | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 | Frequency |
| IFGeintLow | #Atten: 30 dB | Mkr1 | | Auto Tune |
| | 1 | | | Center Free 1.850000000 GH |
| | 1-1 | - | -1300 4200 | Start Fre 1.849000000 GH |
| | | | | Stop Fre 1.851000000 GH |
| | | Sweep 1 | .667 ms (1001 pts) | CF Ste 200.000 kH Auto Ma |
| 1.850 000 GHz | -17.64 dBm | | 6 | Freq Offse 0 H |
| | | | | |
| | PNC: Wide - PSC: Wide - 19.08 dBm #VBI | 00000 GHZ Proceeding of the second | 20000 GHZ PROVISE - Trig: Free Run Production - Trig: Free Run Production - Trig: Free Run Production - Trig: Free Run Avg Type: Log-Pwr Avg | 20000 GHZ Prode Hz Trig: Free Run #Artig: 52 dB Avg Type: Log-Pwr Trig: 10001 [32 34 55 100] 19 dB Mkr1 1.850 000 GHZ -17.64 dBm 1 -17.64 dBm -17.64 dBm 2 -17.64 dB |

Band25_3MHz_QPSK_1_14_HighCH26675

| Keysight Sp RL | ectrum Analyzer - Sw | Appt SA | SENSE | | ALIGN AUTO | 06:30:45 PM Au | | - 4 | | |
|--|----------------------|---------------|-------------|----------|---------------|----------------------------|------------|--------------------------------|--|--|
| | req 1.91500 | 00000 GHz | | Avg Typ | e: Log-Pwr | TRACE 1 | 23456 | Frequency | | |
| Ref Offset 13.9 dB Mkr1 1.915 000 GHz 10 dBddiv Ref 3.0.00 dBm | | | | | | | | | | |
| .og 20.0 10.0 | | - / | - | | | | | Center Fre 1.915000000 GH | | |
| 20.0 | | | 1 | ~ | | | -13.03 421 | Start Fre 1.914000000 GH | | |
| 40.0 50.0 60.0 | | | | | | | | Stop Fro 1.916000000 Gi | | |
| Res BW | | # | /BW 120 kHz | | Sweep 1 | top 1.91600 .667 ms (10 | 01 pts) | CF Ste 200.000 ki Auto M | | |
| 1 N 2 3 | | 1.915 000 GHz | -15.06 dBm | FUNCTION | INCTION WRITH | FUNCTION | | Freq Offs | | |
| 4 5 6 7 8 9 | | | | | | | - | 01 | | |
| 10 | | | | | | | | | | |

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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bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

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

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Band25 3MHz QPSK 15 0 LowCH26055

| | | | | | | | ctrum Analyzar - Sv | | |
|---------------------------------|-------------------------------|---------|--------------|--------|---------------|-------------------------|---------------------|--------|-------------------------|
| Frequency | TRACE 1 2 3 4 5 6 | wr | Type: Log-Pw | | Trig: Free Ru | 00000 GHz | eq 1.8500 | | u i Cer |
| Auto Tur | DET A NNNN | kr1 1.8 | Mkr | | #Atten: 30 dB | PNO: Wide IFGain:Low | Ref Offset 1 | | |
| | -26.18 dBm | | | | | | Ref 30.00 | dB/div | |
| Center Fre 1.850000000 GH | | | | | | | _ | 0 | 20.0 |
| Start Fre 1.849000000 GH | -13 00 dDm | _ | | / | ¢14 | | _ | 0 | -10,0 |
| Stop Fre 1.851000000 GF | | | | | | | | 0 | -30 0 -40 0 -60 0 |
| CF Ste 200.000 kF Auto Ma | 1.851000 GHz ms (1001 pts) | p 1.667 | Sweep | EUSCII | W 120 kHz | #VE | | - | sta #Re |
| Freq Offs 0 F | | | | | -26.18 dBm | 1.850 000 GHz | 1 | N 1 | 12345 |
| | | | | | | | | | 6 7 8 9 |
| | | 1 | 1 | | | | 1 1 | 1 1 | 11 |
| | | TATUS | STAT | | | | | | 153 |

| -0- 4 | | | | | | | | malyzer - S | | iight Spe | K Key |
|--------------------------|-------------------------------|-------|-------------|---|--------------|---------------------------|------------|-------------------|------------|------------|-------------|
| Frequency | TRACE 1 2 3 4 5 6 | Pwr | Type: Log-P | | SENSE | GHz | 000000 | | iu eq 1 | er Fr | |
| A | DET A NNNN | | | | #Atten: 30 d | PNO: Wide * IFGain:Low | | | | | |
| Auto Tu | 15 000 GHz -22.79 dBm | kr1 1 | м | | | | | Offset 1 30.00 | | /div | 0 di |
| Center Fr | | _ | | | | _ | _ | | - | | 20.0 |
| 1.915000000 G | | - | | - | ~ | | | | - | | 10.0 |
| Start Fr | -13 00 dOn | | | | 1 | | | | | | 0.0 |
| 1.914000000 G | | | | | | | - | | - | | 0.0 |
| | | | | | | | | | | | 0.0 |
| Stop Fr 1.916000000 G | | - | - | | | - | - | | - | | 0.0 |
| | | | | | | | | | | | 50.0 |
| CF St 200.000 k | 1.916000 GHz ms (1001 pts) | | Swee | | / 120 kHz | #VB | | GHz Hz | | 1.91 BW | |
| Auto M | UNDITION WALKE | NOTH | FUNCTIONW | | -22.79 dBm | 5 000 GHz | X 1.915 | _ | | N 1 | |
| Freq Offs | | | | | | | | | | | 234 |
| | 1 | - | | - | | | | | - | + | 5 6 7 |
| | | | | | | | | | | | 89 |
| | | - | + | - | ** | | | | | | 10 |
| | | TATUS | e. | | | | | | | | 50 |

Band25_3MHz_QPSK_15_0_HighCH26675

Band25_5MHz_QPSK_1_0_LowCH26065

| | | | -c- 4 |
|----------------|-------------------|---|----------------------------------|
| Trig: Free Run | Avg Type: Log-Pwr | 06:10:55 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N | Frequency |
| #Atten: 30 dB | Mkr1 | 1.850 000 GHz -21.29 dBm | Auto Tun |
| | | | Center Free 1.850000000 GH |
| | | 1300 450 | Start Fre 1.849000000 GH |
| | | | Stop Fre 1.851000000 GH |
| W 150 kHz | | top 1.851000 GHz 000 ms (1001 pts) | CF Stej 200.000 kH Auto Ma |
| -21.29 dBm | | | Freq Offse 0 H |
| | | | |
| | | 11 STATUS | |

Band25 5MHz QPSK 1 24 HighCH26665

| Frequency | Maug 13, 2018 | 06:18:03 PM | ALIGN AUTO | | ENSE:INT | 51 | | | | 1 | | R |
|----------------------|-----------------------|------------------------|--------------|---------|----------|-----------|------------|---------|------------------------|-----|----------------|---------------|
| Trequency | | TYP | e: Log-Pwr | Avg | ee Run | Trig: Fre | NO: Wide = | 00000 0 | 1.9150 | req | ter F | Jer |
| | ANNNN | DE | | | 30 dB | #Atten: 3 | Gain!Low | | | | | |
| Auto Tur | 00 GHz 04 dBm | | Mkr1 | | | | | | f Offset 1 of 30.00 | | B/div | 10 d |
| Center Fre | | | - | | | | | | | | | 20.0 |
| 1.915000000 GH | | | - | _ | - | | | | | _ | | 10.0 |
| | | | | _ | _ | | | | | _ | | 0.00 |
| Start Fre | -13 00 40+ | | - | _ | 1- | ~ | | - | - And | _ | | 10.0 |
| 1.914000000 GH | | | | _ | × - | - | - | - | ~ | | - | 20,0 |
| | | | | - | ~ | | | | | _ | - | 30.0 |
| Stop Fre | | | | ~ | - | | | | | | - | 40.0 |
| 1.916000000 GH | | | | | - | | + | | | - | - | 60.0 |
| | | | - | | - | | | - | | - | - | 60.0 |
| CF Ste 200.000 kH | 5000 GHz 1001 pts) | top 1.916 000 ms (1 | Sweep 1. | _ | z | W 150 kHz | #VB | - | 0 GHz kHz | | t 1.91 s BW | |
| Auto Mi | IN WALLE | | INCTION WOTH | INCTION | | Ý | _ | × | | | NUDE | |
| | | | | | iBm | -19.04 d | 00 GHz | 1.915 (| - | 1 1 | N | 1 |
| Freq Offs | | | | | | | - | | - | - | - | 2 3 4 |
| 01 | | | | | | | _ | | | | - | 5 |
| | | | | | - | | _ | | | | - | 6 7 8 |
| | | | | | | | | | | | | |
| | _ | | | | | | | | | | | 9 |
| | = | | | | - | | | | | | - | 9 10 11 |

Band25_5MHz_QPSK_25_0_LowCH26065

| | | | | | | | | | alyzer - Son | | ight Spect | Key R Ri |
|---------------------------------|--|-------|---------------|---------|-------|-----------|-------------------|----------|----------------------|-------|---------------|---------------------------------|
| Frequency | 11:46 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | | Type: Log-Pwr | | e Run | | Hz NO: Wide -+ | 00000 G | 85000 | pq 1. | er Fre | |
| Auto Tuni | 50 000 GHz -28.41 dBm | 1 1.8 | Mkr1 | | 30 dB | #Atten: 3 | Gain:Low | 9 dB | offset 13 30.00 d | | | 10 dE |
| Center Free 1.850000000 GH | | | | | | | | | | | | 20.0 10.0 |
| Start Free 1.849000000 GH | -13 00 40m | _ | | - | •1 | | | | | - | | 0.00 -10.0 -20.0 -30.0 |
| Stop Fre 1.85100000 GH | | | | | | | | | | | | 40.0 50.0 60.0 |
| CF Ste 200.000 kH Auto Ma | 1.851000 GHz ms (1001 pts) | 1.000 | Sweep 1 | EUNCTIO | 2 | 150 kHz | #VBV | × | | 1 kH | 1.849 BW 5 | #Re: |
| Freq Offse 0 H | | | | | Bm | -28.41 di | IO GHZ | 1.850.00 | | 1 | N 1 | 1 2 3 4 5 |
| | | | | | - | | | | | | | 6 7 8 9 10 |
| | | TUS | STATU | | | | | | | | | 4 |

Band25_5MHz_QPSK_25_0_HighCH26665

| | | | | | n Analyzer - Swept SA | | | |
|-----------------------------|--|-------------------|-------------------|-------------------------|-----------------------|-----------------|-------|--------------|
| Frequency | 06:18:36 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Trace 1 2 3 4 5 6 | Aug Type: Log-Pwr | Trig: Free Ru | 0 GHz | 1.91500000 | Freq | | |
| Auto Tur | 1.915 000 GHz | Mkr1 | #Atten: 30 dl | PNO: Wide IFGain:Low | ef Offset 13.9 dB | | | _ |
| | -24.07 dBm | | | | ef 30.00 dBm | | B/div | |
| Center Fre | | | | | | | - | 20.0 |
| | -12.00 (20) | | | | | | | 0.00 |
| Start Fre 1.914000000 GF | -13.00 82.01 | | -t' | | | | - | 20 0 |
| Stop Fre | | | | | | | | 30.0 40.0 |
| 1.916000000 G | | | | | | | | 60,0 60,0 |
| CF Ste 200.000 ki | top 1.916000 GHz .000 ms (1001 pts) | | / 150 kHz | #VB | 00 GHz kHz | 01400 N 51 H | | |
| Auto Ma | FUNCTION VALUE | ON FUNCTION WOTH | -24.07 dBm | 15 000 GHz | | 1 f | | 100 |
| Freq Offs 01 | | | | | | - | | 2345 |
| | | | | | | | | 6789 |
| | | | | | | | | 10 |
| | | STATUS | | | | | | 150 |

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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Band25 10MHz QPSK 1 0 LowCH26090

| 0 4 | | | | | | | | | ctrum Analyza | yoight.Spe | M Key |
|------------------------------|-------------------|-----------------------|--------------|----------|-----------|-----------|-------------------------|---------|---------------------|------------|-------|
| Frequency | Aug 13, 2018 | TRAC | ALIGN AUTO | Avg | ETASE INT | | | SQ D DC | 10r | | R |
| Auto Tun | 00 GHZ | | | CARD IN | | #Atten: | PNO: Wide IFGain:Low | | | | _ |
| | 13 dBm | -15.6 | | | | | | | Ref Offs Ref 30. | B/div | 10 dl |
| Center Fre 1.850000000 GH | | | 1 | | - | - | | | _ | | 20.0 |
| Start Fre | North Contraction | | | mon | *7 | | | | _ | | 10.0 |
| 1.84900000 GP | | | | | - | | m | man | | | 30.0 |
| Stop Fre 1.851000000 GH | | | | | | | | | m | ~~~~ | 60.0 |
| CF Ste 200.000 ki | | top 1.85 .000 ms (| Sweep 1 | | z* | W 300 kH; | #VE | | 9000 GH 100 kHz | | |
| Auto M | IN WALLE | FUNCT | INCTION WOTH | FUNCTION | | -15.613 d | 000 GHz | × | C 500 | NODE TH | 194 |
| Freq Offs | = | | | | | -13.867 d | 992 GHz | 1.849 | 1 | N 1 | 2345 |
| | | | | | | | | | | | 6789 |
| | | | | | | | | | | | 10 |
| | | | STATUS | | | | | | | | * |

| RL RL | um Analyzar - Swa IUF 50 ID | DC | SENSE: INT | Avg Type: RMS Avg Hold: 100/1 | TRAC | MAug 13, 2018 | Frequency |
|------------------------|--------------------------------|--------------------------------|----------------------------|----------------------------------|----------------------------|---------------|-------------------------------|
| | Ref Offset 13. Ref 30.00 c | | #Atten: 30 dB | | lkr1 1.915 0 | 00 GHz | Auto Tun |
| | | - | | | | | Center Fro 1.915000000 Gi |
| 100 000 | | - Andrewski | 12 12 | mm | | -13.00 45m | Start Fre 1.914000000 G |
| 30.0 (0.0 50.0 | | | | | mm | ~~~~~ | Stop Fre 1.916000000 Gi |
| tart 1.914 Res BW 1 | 00 kHz | #VI | 300 kHz* | Swee | Stop 1.910 p 1.000 ms (| 1001 pts) | CF Str 200.000 k Auto M |
| N 1 N 1 34 6 | 1 | 1.915 000 GHz 1.915 026 GHz | -15.148 dBm -14.154 dBm | | | - | Freq Offs 0 |
| 7 8 9 1 | | | | | | | |
| 6 | | | | | STATUS | _ | |

Band25_10MHz_QPSK_1_49_HighCH26640

Band25_10MHz_QPSK_50_0_LowCH26090

| Keysight Spectrum Analyzer - Swept SA RL IIF 50 D DC | | SENSE INT | ALTON AUTO | | |
|---|------------|----------------|-------------------|---|-----------------------|
| Center Freq 1.8500000 | O GHz | Trig: Free Run | Avg Type: Log-Pwr | 06:00:35 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN | Frequency |
| | IFGain:Low | #Atten: 30 dB | Mkr1 | 1.850 000 GHz | Auto Tun |
| Ref Offset 13.9 dE 0 dB/div Ref 30.00 dBm | | | | -25.13 dBm | |
| 20.0 | | | | | Center Fre |
| 10.0 | | | | | 1.850000000 GH |
| -1D.D | | 1 | | -13.00 dDn | Start Fre |
| 20.0 | man | min | | | 1.849000000 GH |
| 40.0 | | | | | Stop Fre |
| 60.0 | | | | | 1.851000000 GH |
| start 1.849000 GHz | | | | top 1.851000 GHz | CF Ste |
| Res BW 100 kHz | #VBW 3 | | Sweep 1. | 000 ms (1001 pts) | 200.000 kH Auto Ma |
| 1 N 1 f 1. | 50 000 GHz | 25.13 dBm | | | Freq Offse |
| 3 4 5 | | | | | 0 H |
| 6 7 8 | | | | | |
| 8 9 10 | | | |] | |
| ii | - | | | | |
| 53 | | | STATUS | | |

Band25_10MHz_QPSK_50_0_HighCH26640

| | 06:08:13 PM Aug 13, 2018 | ALIGN AUTO | | \$67656:1 | | | 1 | L | |
|---|-----------------------------|---------------|----------|---------------|-------------------------|-----------------------------|-------|-------|--------------|
| Frequency | TRACE 1 2 3 4 5 6 | Type: Log-Pwr | Avg | Trig: Free Ru | 00000 GHz | 1.915000 | Freq | ter | er |
| | DET A NNNNN | | | #Atten: 30 dB | PNO: Wide IFGain/Low | | | | |
| Auto Tur | 1.915 000 GHz -22.72 dBm | Mkr1 | | | | f Offset 13.9 f 30.00 dE | | B/div | 0 d |
| Center Fre | | | | | | | | | 20.0 |
| 1.915000000 GH | | _ | | | | | | - | 10.0 |
| | | - | | - | - | | | - | 0.00 |
| Start Fre | -13.00 dDm | | | 1 | | | | ⊨ | 10.0 |
| 1.914000000 Gi | | | m | frank | | | | | 20.0 |
| | | | | | | | | | 30.0 |
| Stop Fre | | | | | | | | | 40.0 50.0 |
| 1.916000000 G | | | | | | | | | 60.0 |
| | top 1.916000 GHz | | | | | 0 GHz | 0110 | | |
| | top 1.916000 GHZ | | | W 300 kHz | #VB | | W 100 | | |
| 200.000 ki | 000 ms (1001 pts) | sweep 1. | | | | | | | |
| 200.000 ki | 000 ms (1001 pts) | Sweep 1. | FUNCTION | 00 70 dBm | X | | TRC S | | - 6 4 |
| 200.000 ki Auto M | | | FUNCTION | -22.72 dBm | 8 1.915 000 GHz | | 1 1 | | 1 |
| 200.000 ki Auto M | | | FUNCTION | -22.72 dBm | | | | | 1 2 3 4 |
| 200.000 ki Auto M | | | FUNCTION | -22.72 dBm | | | | | 12345 |
| 200.000 ki Auto Mi | | | FUNCTION | -22.72 dBm | | | | | 12345678 |
| CF Ste 200.000 ki Auto Mi Freq Offs 0 i | | | FUNCTION | -22.72 dBm | | | | | 12345 |

Band25_15MHz_QPSK_1_0_LowCH26115

| 0 | | | | | | | | | m Analyzar - Sv | ht Spectre | Keysie RL |
|----------------------------|---|----------|----------------|---------|--------|--|-----------|-------------------------------------|---------------------------|------------|-------------------|
| Frequency | 49 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | TR. | RMS 100/100 | Avg Typ | Bun | | | | IU: 501 | _ | KL |
| Auto Tun | DET A NN NN N | | | Avginos | | #Atten: 3 | O: Wide 😁 | | | | |
| Auto Tun | 0 000 GHz .963 dBm | | Mkr1 | | | | | | tef Offset 1 tef 30.00 | | dB/ |
| Center Fre | | / | | | | | | | | | 0.0 |
| 1.85000000 GH | | | 1 | | | | | | | | 0.0 |
| Start Fre | -13 00 dDm | | MAR | man | 1 | (0 ⁶⁵ (1) | | | | | 1.0 |
| 1.849000000 GH | | | | - | W. M I | manner | mand | hopogradation | M Martin Mar | www | 10 |
| | | - | | | | | | | | | 3.0 |
| Stop Fre 1.851000000 GH | | | | | | | | | - | | 0.0 |
| CF Ste | 851000 GHz | Stop 1.8 | s | | | | | | 00 GHz | 1.8490 | |
| 200.000 kH Auto Ma | ns (1001 pts) | .000 ms | Sweep 1 | | | 620 kHz | #VBV | | 0 kHz | | |
| | ACTION WALVE | FUNC | ICTION WOTH | TION | 3m | -14.963 di | | 1.850 000 | 1 | | 1 |
| Freq Offse | | | | _ | 3m | -13.952 di -13.256 di -13.753 di | GHz | 1.849 988 1.849 964 1.849 930 | ! | 1 | |
| 0 H | | | | | 3m | -13.688 di -14.062 di | GHz | 1.849 862 | 1 | 1 | 4 N 5 N 6 N |
| | | | | | 3m | -13.665 di | GHz | 1,849 952 | ŕ | | 7 N |
| | | | | _ | - | | | | | | 9 |
| | | | | 1 | 1 | | | | | + + | |
| | | s | STATUS | | | | | | | | 3 |

Band25_15MHz_QPSK_1_74_HighCH26615

| | | | | | | | triam Analyzar - Sv | |
|--------------------------------|--|--|-----------------|--|--------------------|---|---------------------------|-----------------------|
| Frequency | 05:53:19 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NN NN N | ALIGN AUTO ALIGN AUTO ALIGN AUTO ALIGN AUTO ALIGN AUTO ALIGN AUTO | Ave | Trig: Free Run | NO: Wide | P | NF 50 1 | RL |
| Auto Tur | 1.915 000 GHz -15.988 dBm | Mkr1 | | #Atten: 30 dB | Gain/Low | 3.9 dB | Ref Offset 1 Ref 30.00 | dB/div |
| Center Fre | | | | | | | | 8 |
| 1.915000000 GH | | | | | | 1 | | 0.0 |
| Start Fre | איז ראיז ראין איז | | 34 Muser mar | Wwwwww 1) | and and the second | "hy | _ | D |
| 1.914000000 GH | M. W. M. M. W. | analy water | divide by | | | | _ | 0 |
| Stop Fre | | | | | | | | |
| 1.916000000 Gł | | | | | | | | 1.0 |
| CF Ste 200.000 ki Auto M | top 1.916000 GHz .000 ms (1001 pts) | Sweep 1. | | 520 kHz* | #VBW | - | 000 GHz 200 kHz | art 1.914 les BW 2 |
| Auto Ma | FUNCTION WALVE | UNCTON WORK | FUNCTION | Ý. | | × | | NOTE THE |
| Freq Offs | | | | 15.988 dBm 13.525 dBm 13.340 dBm 13.276 dBm | 54 GHz 84 GHz | 1.915 00 1.915 00 1.915 00 1.915 1 | 1 | N 1 2 N 1 3 N 1 |
| | | | | | | | | 4 N 1 5 7 8 |
| | | | | | | | | |
| | · · · | - | _ | | 1 | | 1 | 1 |
| | | STATUS | | | | | | 3 |

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Band25 15MHz QPSK 75 0 LowCH26115

| | ectrum Analyzer - S | | | | | |
|-------------------------------------|---------------------------|---------------|----------------|-------------------|---|------------------------------|
| Center Fi | req 1.8500 | 000000 GHz | Trig: Free Run | Avg Type: Log-Pwr | 05:46:39 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 | Frequency |
| 10 dB/div | Ref Offset 1 Ref 30.00 | | #Atten: 30 dB | Mkr1 | 1.850 000 GHz -26.30 dBm | Auto Tun |
| 20.0 10.0 | | | | | | Center Fre 1.850000000 GH |
| -10.0 | | | | mann markan | -13 00 40 m | Start Fre 1.849000000 GH |
| 40.0 60.0 | | | | | | Stop Fre 1.851000000 GH |
| Start 1.84 #Res BW | | #VB | W 620 kHz | | Stop 1.851000 GHz .000 ms (1001 pts) | |
| 1 N 1 2 3 4 5 6 7 | f | 1.850 000 GHz | -26.30 dBm | | E | Freq Offse 0 H |
| 8 9 10 11 | | | | | | |
| 15G | | | | STATU | 5 | |

| | | | | _ | | | | | nalyzar - Sye | | ight Spec | |
|--------------------------|-------------------------|----|------------|---------|----------|----------|--------------------------|---------|----------------------|-----------|---------------|-------------|
| Frequency | PM Aug 13, 2018 | TR | e: Log-Pwr | Avg | Free Run | | Hz | 00000 G | 91500 | eq 1 | er Fr | RL ent |
| Auto Tur | DET A NNNN | | | | | #Atten: | PNO: Wide * FGain:Low | | | | | |
| Auto Tu | 000 GHz 3.05 dBm | | Mkr1 | | | | | | Offset 13 30.00 d | | /div | dB |
| Center Fre | _ | | _ | _ | | _ | | | | | | 0.0 |
| 1.915000000 Gi | | | | - | - | - | - | | _ | - | | 0.0 |
| Start Fr | -13 00 401 | | | | | | | | - | | | 0.0 |
| 1.914000000 G | | | | ~~~~~ | +'m | min | www. | man | | - | | 0.0 |
| | | | | | | | | | | | | 0.0 |
| Stop Fr 1.916000000 G | | | | _ | | _ | _ | | | _ | | 0.0 |
| 1.310000000 | | | | - | - | - | - | | | - | | 0.0 |
| CF St 200.000 k | 16000 GHz (1001 pts) | | | | Hz | W 620 kH | #VB | | | | 1.914 BW 2 | |
| Auto M | - | | ZOLOZIWORI | UNCTION | | Ý | | x | | | 10 110 | |
| Freq Offs | | | | | 5 dBm | -23.05 c | 00 GHz | 1.915 0 | | 1 | N 1 | 23 |
| 0 | | | | | - | | | | | \square | - | 4 5 |
| | | | | | - | | | | | | | 6 |
| | | | | | - | | | | | Ħ | + | 8 9 0 |
| | | | | | - | | - | | | | 1 | 1 |
| | | s | STATUS | | | | | | | | | a |

Band25_15MHz_QPSK_75_0_HighCH26615

Band25_20MHz_QPSK_1_0_LowCH26140

| Keysight Spectrum Analyzer - Swept SA | | | |
|--|--|--|---------------------------------|
| RL NF 50 D DC | PNO: Fast Trig: Free Run | ALIGN AUTO 04:57:00 PM Aug 13, 2018 Avg Type: Log-Pwr TRACE [1 2 3 4 5 6 Type] a WWWWW DETIA N N N N | Frequency |
| Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm | IFGainLow #Atten: 30 dB | Mkr1 1.850 000 GHz -15.27 dBm | Auto Tur |
| 00 | | | Center Fre 1.850000000 GH |
| | a libration for have a free for | have a second | Start Fre 1.849000000 GH |
| | | | Stop Fre 1.851000000 GH |
| art 1.849000 GHz Res BW 300 kHz | #VBW 1.0 MHz | Stop 1.851000 GHz Sweep 1.000 ms (1001 pts) FUNCTION FUNCTION WARE | CF Ste 200.000 kH Auto Ma |
| 1 N 1 f 1.85 | 50 000 GHz -15.27 dBm 19 988 GHz -13.24 dBm | PUNCTURE PUNCTURE WOITH PUNCTURE A | Freq Offse 0 H |
| 7 8 9 0 1 | | | |
| 30 | | STATUS | |

Band25 20MHz QPSK 1 99 HighCH26590

| Frequency Auto Tune | 05:03:04 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WARNEN DET A NIN NIN N | ALIGH AUTO Avg Type: Log-Pwr | | Trig: Free Ru #Atten: 30 dB | PNO: Fast | r-Swept SA 50 D DC | um Analyz IU | t Spectr | Cayaigt R.L. |
|--------------------------------|---|---------------------------------|-----------------------|--------------------------------|--------------------|-------------------------|------------------|----------|-----------------|
| | 1.915 000 GHz -18.11 dBm | Mkr1 | | | | t 13.9 dB 00 dBm | | | dB/d |
| Center Fre 1.915000000 GR | | | | | | | - | - | 0 |
| Start Fre 1.914000000 GP | HAMMAN MANAMAN | MANA ANA | and the second second | WWW.John | www. | marthe | | | |
| Stop Fre 1.916000000 Gi | 1 | | | | | | - | | 0 0 |
| CF Ste 200.000 ki Auto M | top 1.916000 GHz 000 ms (1001 pts) | Sweep 1. | | 1.0 MHz | #VBW | | 000 GH 00 kHz | W 3 | es E |
| Freq Offs 01 | FUMRITCHNWALDE | NUTION WOTH | FUNCTION | -18.11 dBm -13.75 dBm | 000 GHz 018 GHz | × 1.915 0 1.915 0 | 1 | 1 | NN |
| | | | | | | | | | |
| | | STATUS | | | | | | | |

Band25_20MHz_QPSK_100_0_LowCH26140

| | | | | - | | | Analyzar - So | | | |
|-----------------------------------|--|---------------------------|------|----------------|--------------------------|--------------|---------------|---------------|------|------------------------|
| Frequency | 04:57:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Tropp A use 4 5 6 | Avg Type: Log-Pwr | | Trig: Free Run | | 00000 G | | Freq | | Cen |
| Auto Tune | 1.850 000 GHz | | | #Atten: 30 dl | PNO: Fast ++ Gain:Low | 1F 3.9 dB | Offset 1 | | | |
| | -26.25 dBm | | | | - | dBm | f 30.00 | Re | | Log |
| Center Free 1.850000000 GH: | | _ | | | - | | | _ | | 20.0 |
| Start Free 1.849000000 GH | 1300 400 | and a second and a second | | ↓ ¹ | - | | | _ | | 0.00 -10.0 -20.0 |
| Stop Free | | | | | | | | | | -30.0 -40.0 |
| 1.851000000 GH | | | | | | | | | | -60.0 |
| CF Step 200.000 kH Auto Mar | top 1.851000 GHz .000 ms (1001 pts) | Sweep 1. | | 1.0 MHz | #VBV | | kHz | 4900 V 300 | s Bl | #Re |
| | EDVICTORYWALDE | FUNCTION WOTH | FUNC | -26.25 dBm | 00 GHz | 1.850.00 | | 1 f | N | 1 |
| Freq Offse 0 H | | | | | - | | | - | | 3 4 5 |
| | | | | | | | | | | 678 |
| | | | | | | | | | | 9 10 11 |
| | 1 | STATUS | | | | | | | | 150 |

Band25_20MHz_QPSK_100_0_HighCH26590

| | | | | | | | | | inalyzar - So | | | |
|---------------------------------|--|---------|---------------|----------|---|----------|----------------|---------|---------------|-----------------|-------|-------------------|
| Frequency | 1 PM Aug 13, 2018 RACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN | T | ype: Log-Pwr | Ave | ree Run | | Iz | 00000 G | .9150 | Freq 1 | nter | |
| Auto Tune | 000 GHz 3.07 dBm | 1.915 | Mkr1 | | PNO: Fest Trig: Free Run IFGainLow #Atten: 30 dB div Ref 0ffset 13.9 dB | | | | | | | |
| Center Fre 1.915000000 GH | | | | | | - | | | | | | 20.0 10.0 |
| Start Fre 1.914000000 GH | -13.00 dDn | | | | •1 | | and the second | | 1 | | | 10.0 |
| Stop Fre 1.916000000 GH | | | | | | | | | | | _ | 40.0 50.0 |
| CF Ste 200.000 kH Auto Ma | 16000 GHz s (1001 pts) | 1.000 m | Sweep 1 | | łz | N 1.0 MH | #VB | | kHz | 914000 N 300 | es Bl | Re |
| LINAN ING | CONTRACTOR - | FUN | FUNCTION WOTH | FUNCTION | dBm | -23.07 | 0 GHz | 1.915 0 | | 1 1 | N | 1 |
| Freq Offse 0 H | | | | | - | | | | | | | 23456 |
| | | | | | - | | | | | | | 7 8 9 10 |
| | | - | | | - | ** | - | | - | _ | | 11 |
| | | IS | STATUS | | | | | | | | | 150 |

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