

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------|------------|-----|-----------|-----------|
| Analyzer - Spectrum Analyzer | Agilent | N9010A | AFL | 27-Feb-20 | 27-Feb-21 |
| Generator - Signal | Agilent | N5173B | TIW | 5-Jul-17 | 5-Jul-20 |
| Generator - Signal | Keysight | N5171B-506 | TEW | 2-May-18 | 2-May-21 |

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT through 4 different attenuation configurations which continues through to the RF input of the spectrum analyzer. Analyzer plots utilizing a resolution bandwidth called out by the client's test plan were made for each modulation type from 9 KHz to 22 GHz. The peak conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than the limits also called out by the client's test plan shown below.

The measurement methods are detailed in KDB971168 D01v03 section 6 and ANSI C63.26-2015.

Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency.

These measurements are for frequency band after the first 1.0 MHz bands immediately outside and adjacent to the frequency block.

Per section FCC 24.238(a), the power of any emission outside of the authorized operating frequency range cannot exceed - 13 dBm for a 1 MHz measurement bandwidth. The limit is adjusted to -19 dBm [-13 dBm -10 log (4)] per FCC KDB 662911D01 v02r01 because the BTS may operate as a 4 port MIMO transmitter.

The limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -49dBm = -19dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: - 39dBm = -19dBm -10log(1MHz/10kHz)]. The required limit of -19dBm with a RBW of > 1MHz was used for all other frequency ranges.

RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHFIG) as the original certification test. The AHFIG antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 4 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

5G NR carrier bandwidths of 5MHz, 10MHz, 15MHz, and 20MHz with QPSK, 16QAM, 64QAM and 256QAM modulation types were verified under this effort. The 5G NR carriers/modulation types for this testing are set up according to 3GPP TS 38.141-1 Test Models and are NR-FR1-TM 1.1 (QPSK modulation type), NR-FR1-TM 3.1 (16QAM modulation type), NR-FR1-TM 3.1 (64QAM modulation type), and NR-FR1-TM 3.1a (256QAM modulation type).

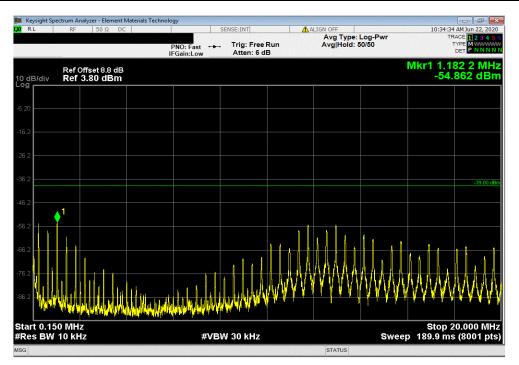


| | | | | | | eleme |
|----------------------|--|---|---------------------------|--------------------|-------------------------|--------------|
| | | | | | TbtTx 2020.06.08.0 BETA | XMit 2020. |
| | AHFIG | | | Work Order: | | |
| Serial Number: | | | | | 22-Jun-20 | |
| | Nokia Solutions and Networks | | | Temperature: | | |
| | Mitchell Hill, John Rattanavong | | | Humidity: | 51.8% RH | |
| Project: | | | | Barometric Pres.: | | |
| | Brandon Hobbs | Power: 54 VDC | | Job Site: | TX05 | |
| EST SPECIFICATION | ONS | Test Method | | | | |
| CC 24E:2020 | | ANSI C63.26:2015 | | | | |
| | | | | | | |
| COMMENTS | | | | | | |
| All measurement pa | ath losses were accounted for in the reference level offest in | cluding any attenuators, filters and DC blocks. The | carrier was set to maximu | m for all testing. | | |
| | | | | | | |
| | | | | | | |
| | I TEST STANDARD | | | | | |
| lone | | | | | | |
| Seaffrance the seaff | 1001 | 1 1 1 | | | | |
| Configuration # | 1,2,3,4 | 2 Jan | | | | |
| | Signature | | Measured | Max Value | Limit | |
| | | Frequency Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | | Range | Freq (MHZ) | (авт) | < (abiii) | Result |
| | 30 MHz - 1995 MHz 5 MHz - Denduidth | | | | | |
| 1 | 5 MHz Bandwidth | | | | | |
| | QPSK Modulation Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | -71.09 | 40 | Deer |
| | | | | | -49 | Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 150 kHz - 20 MHz | 1.18 2622.66 | -54.86 | -39 -19 | Pass |
| | | 20 MHz - 3 GHz | | -24.55 | -19 -19 | Pass |
| | Mid Channel 1962.5 MHz | 3 GHz - 10 GHz | 5887.5 | -38.02 | 10 | Pass |
| | Mid Channel 1962.5 MHz | 10 GHz - 18 GHz | 14316 | -35.57 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 18 GHz - 22 GHz | 21426 | -26.12 | -19 | Pass |
| | 16-QAM Modulation | | 0.01 | 71.20 | 40 | Poss |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | -71.38 | -49 | Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 150 kHz - 20 MHz 20 MHz - 3 GHz | 1.18 | -55.02 | -39 | Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 20 MHZ - 3 GHZ 3 GHz - 10 GHz | 2772.78 3924.88 | -25.49 -37.51 | -19 -19 | Pass Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 3 GHz - 10 GHz 10 GHz - 18 GHz | 3924.88 14432 | -37.51 -36.26 | -19 -19 | Pass Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 10 GHz - 18 GHz 18 GHz - 22 GHz | 14432 21766 | -36.26 -25.45 | -19 -19 | Pass Pass |
| | 64-QAM Modulation | 10 GHZ - 22 GHZ | 21700 | -20.40 | -19 | Pass |
| | 64-QAM Modulation Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | 60 62 | 40 | Boos |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 9 KHZ - 150 KHZ 150 kHz - 20 MHz | 0.01 1.18 | -69.63 | -49 -39 | Pass Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 20 MHz - 20 MHz | 2671.83 | -54.81 -24.54 | -39 -19 | Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 20 MHZ - 3 GHZ 3 GHz - 10 GHz | 3887.25 | -24.54 -38.23 | -19 | Pass Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 3 GHz - 10 GHz 10 GHz - 18 GHz | 3887.25 | -38.23 -36.47 | -19 | Pass Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 10 GHz - 18 GHz 18 GHz - 22 GHz | 21765 | -36.47 -26.37 | -19 | Pass Pass |
| | 256-QAM Modulation | 10 GHZ - 22 GHZ | 21/00 | -20.37 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | -70.54 | -49 | Pass |
| | Mid Channel 1962.5 MHz | 9 km2 - 150 km2 150 kHz - 20 MHz | 1.18 | -54.87 | -39 | Pass Pass |
| | Mid Channel 1962.5 MHz | 20 MHz - 3 GHz | 2622.29 | -24.81 | -39 | Pass |
| | Mid Channel 1962.5 MHz | 3 GHz - 10 GHz | 3772.63 | -24.61 | -19 | Pass |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 3 GHz - 10 GHz 10 GHz - 18 GHz | 14371 | -37.45 -35.96 | -19 | Pass Pass |
| | Mid Channel 1962.5 MHz | 18 GHz - 18 GHz | 21849.5 | -26.13 | -19 | Pass |
| | 10 MHz Bandwidth | 10 GHZ - 22 GHZ | 21049.0 | -20.13 | -19 | Fass |
| 1 | 256-QAM Modulation | | | | | |
| | Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | -69.81 | -49 | Pass |
| | Mid Channel 1962.5 MHz | 150 kHz - 20 MHz | 1.18 | -54.95 | -49 | Pass |
| | Mid Channel 1962.5 MHz | 20 MHz - 3 GHz | 2604.03 | -24.84 | -39 | Pass |
| | Mid Channel 1962.5 MHz | 3 GHz - 10 GHz | 3859.25 | -38.32 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 10 GHz - 18 GHz | 13809 | -35.81 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 18 GHz - 22 GHz | 21638 | -25.37 | -19 | Pass |
| 1 | 15 MHz Bandwidth | | 21000 | -20.01 | -13 | 1 005 |
| | 256-QAM Modulation | | | | | |
| | Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | -71.26 | -49 | Pass |
| | Mid Channel 1962.5 MHz | 150 kHz - 20 MHz | 12.57 | -54.75 | -39 | Pass |
| | Mid Channel 1962.5 MHz | 20 MHz - 3 GHz | 2734.04 | -24.36 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 3 GHz - 10 GHz | 3798 | -37.43 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 10 GHz - 18 GHz | 14897 | -35.97 | -19 | Pass |
| | Mid Channel 1962.5 MHz | 18 GHz - 22 GHz | 19434 | -26.36 | -19 | Pass |
| 1 | 20 MHz Bandwidth | | | | | |
| | 256-QAM Modulation | | | | | |
| | Mid Channel 1962.5 MHz | 9 kHz - 150 kHz | 0.01 | -71.03 | -49 | Pass |
| | Mid Channel 1962.5 MHz | 150 kHz - 20 MHz | 12.55 | -54.63 | -39 | Pass |
| | Mid Channel 1962.5 MHz | 20 MHz - 3 GHz | 2626.76 | -24.63 | -19 | Pass |
| | | | | -27.00 | - 10 | 1 0 3 5 |
| | | | | -38 38 | -19 | Page |
| | Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz Mid Channel 1962.5 MHz | 3 GHz - 10 GHz 10 GHz - 18 GHz | 3784.88 15656 | -38.38 -35.61 | -19 -19 | Pass Pass |



| Freque Rang | | Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result |
|---|---------------------------|------------------------|------------------------|------------------|--------------------------|
| 9 kHz - 1 | | 0.01 | -71.09 | -49 | Pass |
| | | 0.01 | 11.00 | | 1 400 |
| 📜 Keysight Spectrum Analyzer - Element Mate | rials Technology | | | | - 6 - |
| RL RF 50 Ω DC | inals recimology | SENSE:INT | ALIGN OFF | | 10:21:18 AM Jun 22, 2020 |
| | | 🛏 Trig: Free Run | Avg Type: Avg Hold: | | TRACE 1 2 3 4 5 |
| | PNO: Wide ↔ IFGain:Low | Atten: 6 dB | Avginoid. | 00/00 | DET P NNNN |
| | | | | | Mkr1 9.370 kH |
| Ref Offset 9.7 dB 10 dB/div Ref 4.70 dBm | | | | | -71.093 dBn |
| | | | | | |
| | | | | | |
| -5.30 | | | | | |
| | | | | | |
| -15.3 | | | | | |
| | | | | | |
| -25.3 | | | | | |
| | | | | | |
| -35.3 | | | | | |
| -45.3 | | | | | |
| -40.5 | | | | | -49.00 dBi |
| -55.3 | | | | | |
| -55.5 | | | | | |
| -65.3 - 1 | | | | | |
| | | | | | |
| -75.3 | | | | | |
| Mary My Mary Market | 0 0 | | | | |
| -85.3 | WWWWWWWWWWWWW | n n 0010 Å n | | | Λ |
| -75.3 MMAYMWWWAMWWA | | and a second from the | man manner | moundar | Stop 150 00 kH |
| Start 9.00 kHz | | | | | Stop 150.00 kH |
| #Res BW 1.0 kHz | #V | BW 3.0 kHz | | Sweep 1 | 34.9 ms (8001 pts |
| MSG | | | STATUS | | |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 5 | MHz Bandwidth, | QPSK Modulation | n, Mid Channel 19 | 962.5 MHz |
|---|----------------|-----------------|-------------------|-----------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 1.18 | -54.86 | -39 | Pass |





| PU | t 4, Band n25, 1930 MH Frequency | z - 1995 MHz | , 5 MHZ Bandwidth, C Measured | Max Value | Limit | 1962.5 IVIHZ |
|-------------------|--|---------------------------------|----------------------------------|------------------------------|-----------------|---|
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 3 GHz | | 2622.66 | -24.55 | -19 | Pass |
| | | | | | | |
| | n Analyzer - Element Materials Tech | iology | | | | |
| LXI RL F | RF 50 Ω DC | | SENSE:INT | ALIGN OFF Avg Type: I | RMS | 10:48:43 AM Jun 22, 2020 TRACE 1 2 3 4 5 6 |
| | | PNO: Fast ++ IFGain:Low | Trig: Free Run #Atten: 22 dB | Avg Hold: 1 | 00/100 | DET A NNNN |
| _ | | II Galil.LOW | | | MI | kr1 2.622 7 GHz |
| 10 dB/div Re | ef Offset 41.6 dB ef 50.60 dBm | | | | | -24.549 dBm |
| Log | | | | | | |
| 40.6 | | | | <mark>,</mark> | | |
| | | | | | | |
| 30.6 | | | | | | |
| | | | | | | |
| 20.6 | | | | | | |
| 10.6 | | | | | | |
| 10.6 | | | | | | |
| 0.600 | | | | | | |
| | | | | | | |
| -9.40 | | | | | | |
| | | | | | | -19.00 dBm |
| -19.4 | | | | | | |
| -29.4 | | No. of the second second second | | and the second second second | | |
| | | | | | | |
| -39.4 | | | | | | |
| | | | | | | |
| Start 0.020 G | | | | | | Stop 3.000 GHz |
| #Res BW 1.0 | MHZ | #VE | 3W 3.0 MHz* | | Sweep 3 | 8.733 ms (8001 pts) |
| MSG | | | | STATUS | | |
| Por | t 4, Band n25, 1930 MH | z - 1995 MHz | , 5 MHz Bandwidth, (| QPSK Modulation | , Mid Channel 1 | 1962.5 MHz |
| | Frequency | | Measured | Max Value | Limit | |
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| I | 3 GHz - 10 GHz | | 5887.5 | -38.02 | -19 | Pass |
| Keysight Spectrum | n Analyzer - Element Materials Tech | ology | | | | |
| | RF 50 Ω DC | | SENSE:INT | ALIGN OFF | | 10:51:44 AM Jun 22, 2020 |
| | | PNO: Fast 🔸 | _ Trig: Free Run | Avg Type: I Avg Hold: 5 | _og-Pwr 0/50 | TRACE 1 2 3 4 5 6 TYPE MWWWW |
| | | | #Atten: 6 dB | | | DET P NNNN |

| Start 3.000 GHz ¢Res BW 2.0 MHz se | #VBW 6.0 MI | 1Z | Steep 11.73 | op 10.000 GH 3 ms (8001 pt |
|--|---|----|----------------------------------|--|
| 68.1 | | | | |
| 58.1 | | | | |
| 48.1 | | | a hi dunin gadah sidi dan bahata | and a set of a set o |
| 36.1 | ▲ 1 | | | |
| 28.1 | | | | |
| 18.1 | | | | -19.00 c |
| 3.10 | | | | |
| 1.90 | | | | |
| 11.9 | | | | |
| Ref Offset 26.9 dB 0 dB/div Ref 21.90 dBm | | | Mkr1 5.8 | 387 500 GH 38.023 dB |
| | PNO: Fast Trig: Fre IFGain:Low #Atten: | | | DET P NNN |



| | Frequency | | Measu | red | Max Value | Limit | | |
|----------------------------|---|---------------------------------------|---|----------|------------------------|---------|-----------------------|--------------------------------|
| | Range | | Freq (N | 1Hz) | (dBm) | < (dBm) | Re | esult |
| | 10 GHz - 18 GHz | | 1431 | 6 | -35.57 | -19 | F | ass |
| | | | | | | | | |
| Markeysight Spectrum Analy | yzer - Element Materials Techno | logy | | | | | | |
| LXIRL RF | 50 Ω DC | | SENSE:INT | | ALIGN OFF | | | 6 AM Jun 22, 2020 |
| | | PNO: Fast +++ | Trig: Free | Run | Avg Type: Avg Hold: | | | RACE 1 2 3 4 5 6 TYPE MWWWW |
| | | IFGain:Low | #Atten: 6 d | | | | | DET P NNNN |
| Bof Off | fset 30.8 dB | | | | | | Mkr1 14 | .316 GHz |
| 10 dB/div Ref 2 | 5.80 dBm | | | | | | -35 | .572 dBm |
| Log | | | | | | | | |
| | | | | | | | | |
| 15.8 | | | | | | | | |
| | | | | | | | | |
| 5.80 | | | | | | | | |
| | | | | | | | | |
| -4.20 | | | | | | | | |
| | | | | | | | | |
| -14.2 | | | | | | | | |
| | | | | | | | | -19.00 dBm |
| -24.2 | | | | | | | | |
| | | | | 1 | | | | |
| -34.2 | | | | | | | | |
| . In strendlight all line | i de la company de la contra de l | ti lin il pingi alcali alcali da il a | alas destado de la la calega de l | | | | Notice and the second | had to the state |
| -44.2 | | | | | | | | |
| | | | | | | | | |
| -54.2 | | | | | | | | |
| | | | | | | | | |
| -64.2 | | | | | | | | |
| | | | | | | | | |
| Start 10.000 GHz | | | | | | | 01 | 18.000 GHz |
| #Res BW 2.0 MH | | #VB | W 6.0 MHz | | | Sween | | 18.000 GHZ s (8001 pts) |
| MSG | 2 | #00 | 99-0.0 191112 | | STATUS | Gweep | 19:33 111 | 5 (666 F pts) |

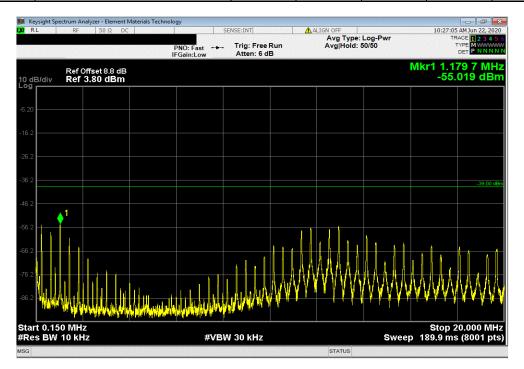
| Port 4, Band n25, 1930 MHz - 1995 MHz | , 5 MHz Bandwidth, | QPSK Modulatio | n, Mid Channel 1 | 962.5 MHz |
|---------------------------------------|--------------------|-----------------------|------------------|-----------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 18 GHz - 22 GHz | 21426 | -26.12 | -19 | Pass |

| RL | R | F 50 Ω | DC | Reality Constraints (Constraints) | SENSE:INT | ALIGN OFF | | 11:03:47 | AM Jun 22, 202 |
|---------|--------------------|---------------------------|----|-----------------------------------|---------------------------|--------------------------|--|--|--------------------------------------|
| | | | | PNO: Fast ← IFGain:Low | ► Trig: Free #Atten: 6 | Avg Type: Avg Hold: (| | 1 | ACE 1 2 3 4 5 YPE M DET P NNNN |
|) dB/di | | f Offset 42. f 37.60 d | | | | | Μ | kr1 21.4 -26. | 26 0 GH 118 dBi |
| - | | | | | | | | | |
| .7.6 | | | | | | | | | |
| 7.6 | | | | | | | | | |
| .60 | | | | | | | | | |
| .40 | | | | | | | | | |
| 2.4 | | | | | | | | | |
| 2.4 | | | | | | | | 1 | -19.00 d |
| 2.4 | terretti tileretti | | | | | | la de a band de dife r di dire a la | in the state of th | |
| | | | | | | | | | |
| 2.4 | | | | | | | | | |
| 2.4 — | | | | | | | | | |
| | 8.000 (W 1.0 | | | | BW 3.0 MHz | | | Stop 2 6.933 ms | 2.000 GH |



| Frequency | | Measured | Max Value | Limit | Desult |
|--|----------------------------|-------------------------------|------------------------|----------------|---|
| Range | _ | Freq (MHz) | (dBm) | < (dBm) -49 | Result |
| 9 kHz - 150 kH | Z | 0.01 | -71.38 | -49 | Pass |
| | | | | | |
| Keysight Spectrum Analyzer - Element Materials Tec Μ RL RF 50 Ω DC | | CHOC ANT | A 41454 055 | | |
| ฬ RL RF 50Ω DC | 3 | ENSE:INT | ALIGN OFF Avg Type: | Log-Pwr | 10:24:50 AM Jun 22, 2020 TRACE 1 2 3 4 5 |
| | PNO: Wide ↔→ IFGain:Low | Trig: Free Run Atten: 6 dB | Avg Hold: | 50/50 | |
| | | | | | Mkr1 9.370 kHz |
| Ref Offset 9.7 dB 10 dB/div Ref 4.70 dBm | | | | | -71.377 dBm |
| Log | | | | | |
| | | | | | |
| -5.30 | | | | | |
| | | | | | |
| -15.3 | | | | | |
| | | | | | |
| -25.3 | | | | | |
| | | | | | |
| -35.3 | | | | | |
| | | | | | |
| -45.3 | | | | | -49.00 dBr |
| | | | | | |
| -55.3 | | | | | |
| | | | | | |
| -65.3 - 1 | | | | | |
| | | | | | |
| -75.3 4 A A A A A A A A A A A A A A A A A A | | | | | |
| WWWWWWWWWW | 1 | | | | |
| -85.3 | Wwwwwwwwwwwww | Thomas Maria a | | | Λ |
| -75.3 | | | Man Mar Manner | annympagene. | manny mon |
| Start 9.00 kHz #Res BW 1.0 kHz | #\/B\ | N 3.0 kHz | | Sween | Stop 150.00 kHz 34.9 ms (8001 pts |
| MSG | #VDV | V SAV NHZ | STATUS | aweeh | ionis (sour pis |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 5 M | 1Hz Bandwidth, 1 | 6-QAM Modulatic | on, Mid Channel | 1962.5 MHz |
|---|------------------|-----------------|-----------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 1.18 | -55.02 | -39 | Pass |





| 10 | ort 4, Band n25, 1930 MHz - 1995 N Frequency | Measured | Max Value | Limit | 002.0 WII 12 |
|--------------------------|---|--------------------------------------|--|----------------------------|---|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 3 GHz | 2772.78 | -25.49 | -19 | Pass |
| | trum Analyzer - Element Materials Technology RF 50 Ω DC PNO: Fa | | ALIGN OFF Avg Type: Avg Hold: | | 10:46:38 AM Jun 22, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N |
| | IFGain:L Ref Offset 41.6 dB Ref 50.60 dBm | ow #Atten: 22 db | | Mkr | 1 2.772 8 GHz -25.490 dBm |
| 40.6 | | | | | |
| | | | | | |
| 30.6 | | | | | |
| 20.6 | | | | | |
| 10.6 | | | | | |
| 0.600 | | | | | |
| -9.40 | | | | | |
| -19.4 | | | | | - <u>19.00 dBm</u> |
| -29.4 | | | ng di sa Basi yang di sa | | |
| -39.4 | | | | | |
| Stort 0.020 | | | | | Stan 2 000 Olla |
| Start 0.020 #Res BW 1 | | #VBW 3.0 MHz* | | Sweep 3.7 | Stop 3.000 GHz 733 ms (8001 pts) |
| MSG | | | STATUS | | |
| Po | ort 4, Band n25, 1930 MHz - 1995 N Frequency | 1Hz , 5 MHz Bandwidth, 1 Measured | 6-QAM Modulatio Max Value | n , Mid Channel 1 Limit | 962.5 MHz |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 3 GHz - 10 GHz | 3924.88 | -37.51 | -19 | Pass |

| RL | RF 50 Ω D0 | | | SENSE:INT | | ALIGN OFF | | 10:54:43 | 3 AM Jun 22, 20 |
|------------------|---|--------|-------------|-----------------------------|---------------------|-------------------------|--|------------------|---|
| | | | PNO: Fast 🔸 | . Trig: Free #Atten: 6 c | | Avg Type: Avg Hold: | | | RACE 1 2 3 4 1 TYPE M DET P N N N |
| dB/div | Ref Offset 26.9 dl Ref 21.90 dBn | 3 1 | | | | | Mk | r1 3.924 -37. | 875 GH 506 dB |
| .9 | | | | | | | | | |
| 90 | | | | | | | | | |
| 10 | | | | | | | | | |
| .1 | | | | | | | | | -19.00 |
| .1 | 1 | | | | | | | | |
| state brids have | AND | | | | iliti kalua kayitik | and the sector shall be | a di kana di kana di kata di ka Kata di kata di | | |
| .1 | | | | | | | | | |
| .1 | | | | | | | | | |
| art 3.00 | | | | | | | | Ston | |
| | 0 GHZ 2.0 MHZ | | #VB | W 6.0 MHz | | | Sweep | Stop 11.73 ms | 10.000 GI s (8001 p |
| | | | | | | STATUS | | | |



| | Frequency | | Measured | | ax Value | Limit | | |
|-------------------------------|-------------------------------|--------------------------|--|-----------------------|------------------------|---------|--------------------------|--------------------------|
| | Range | | Freq (MHz |) | (dBm) | < (dBm) | - | sult |
| | 10 GHz - 18 GHz | | 14432 | | -36.26 | -19 | Pa | ass |
| | | | | | | | | |
| Keysight Spectrum Analyzer | - Element Materials Technolog | Ъ | | | | | | |
| LXI RL RF | 50 Ω DC | | SENSE:INT | <u>^</u> | ALIGN OFF | | | AM Jun 22, 2020 |
| | | | Trig: Free Run | | Avg Type: Avg Hold: | | TR | |
| | | NO: Fast +++ Gain:Low | #Atten: 6 dB | | Avginoid. | 00/00 | | |
| | | | | | | | Mkr1 14 | 432 GHz |
| Ref Offse | t 30.8 dB | | | | | | | 260 dBm |
| 10 dB/div Ref 25.8 | su abm | | | | 1 | , , | -00. | 200 0011 |
| | | | | | | | | |
| 15.8 | | | | | | | | |
| 10.0 | | | | | | | | |
| 5.80 | | | | | | | | |
| 0.C | | | | | | | | |
| | | | | | | | | |
| -4.20 | | | | | | | | |
| | | | | | | | | |
| -14.2 | | | | | | | | -19.00 dBm |
| | | | | | | | | -19.00 dbii |
| -24.2 | | | | | | | | |
| | | | | . 1 | | | | |
| -34.2 | | | | _ <u>•</u> : | | | | |
| and the plant dealers and the | | a Material and a feature | in the state of the state of the state | and the second second | | | الالد الجام وحق الاستخار | line of stables of the f |
| -44.2 | | | the second s | | | | | |
| | | | | | | | | |
| -54.2 | | | | | | | | |
| | | | | | | | | |
| -64.2 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Start 10.000 GHz | | | | | | | | 8.000 GHz |
| #Res BW 2.0 MHz | | #VB\ | A/ 6.0 MHz | | | Sweep | 13.33 ms | ; (8001 pts) |
| MSG | | | | | STATUS | | | |

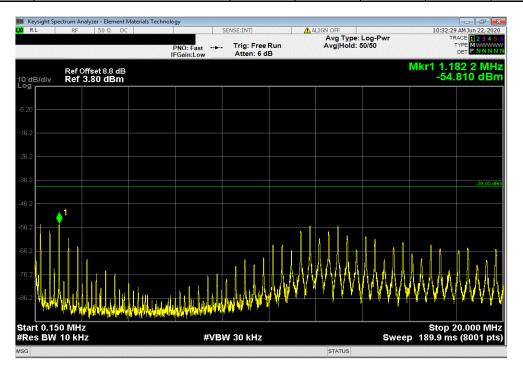
| Port 4, Band n25, 1930 MHz - 1995 MHz , 5 | MHz Bandwidth, ' | 16-QAM Modulatio | n, Mid Channel | 1962.5 MHz |
|---|------------------|------------------|----------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 18 GHz - 22 GHz | 21766 | -25.45 | -19 | Pass |

| RL RF 50 Ω DC | S | SENSE:INT | ALIGN OFF | Call State State State State | 11:05:17 AM Jun 22, 202 |
|--|--|--------------------------------|---|------------------------------|---|
| | PNO: Fast +++ IFGain:Low | Trig: Free Run #Atten: 6 dB | Avg Type: Lo Avg Hold: 50 | | TRACE 1 2 3 4 9 TYPE M WWW DET P NNNI |
| Ref Offset 42.6 dB dB/div Ref 37.60 dBm | | | | MI | kr1 21.766 0 GH -25.446 dBi |
| 7.6 | | | | | |
| | | | | | |
| 7.6 | | | | | |
| 60 | | | | | |
| 40 | | | | | |
| .4 | | | | | -19.00 c |
| 2.4 | | | | | 1 |
| 2.4 A state of the | na katina di ka Ujili ku dan kati ku ka da Anga ka ja tang akatin kati pangang da | | ار (1) بینانداد، این این این این این این این از از استارین بالاستانی از را بیا معادی معاون استار ا | | h ling filter forse felse og find platekser fil blandet st gegense av på der konser for passa fil pomisiset passa gegense av på der konser for på state for forset og state |
| | | | | | |
| | | | | | |
| | | | | | |
| art 18.000 GHz tes BW 1.0 MHz | #VB\ | ₩ 3.0 MHz | | Sweep | Stop 22.000 GH 6.933 ms (8001 pt |



| Frequency | | | Limit | |
|--|--|-------------------------------------|----------|--|
| Range | Freq (MHz | | < (dBm) | Result |
| 9 kHz - 150 k | Hz 0.01 | -69.63 | -49 | Pass |
| Keysight Spectrum Analyzer - Element Materials R RF 50 Ω DC Ref Offset 9.7 dB Cog Ref 4.70 dBm -5.30 -5.30 -15.3 -5.30 | echnology PNO: Wide →→ Trig: Free Run IFGain:Low Atten: 6 dB | ALIGN OFF Avg Type: Avg Hold: | 50/50 | 10:30:30 AM Jun 22, 2020 TRACE 12:34 5 TYPE WINNIN kr1 11.133 kH -69.631 dBn |
| -35.3 | | | | -49.00 dB |
| -65.3 -75.3 -85.3 Start 9.00 kHz | *^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | MMMMMM | humman | Mm/Mm/ Stop 150.00 kH |
| #Res BW 1.0 kHz | #VBW 3.0 kHz | STATUS | Sweep 13 | 34.9 ms (8001 pts |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 5 M | /Hz Bandwidth, 6 | 4-QAM Modulatio | on, Mid Channel 1 | 1962.5 MHz |
|---|------------------|-----------------|-------------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 1.18 | -54.81 | -39 | Pass |





| | Frequency | MHz , 5 MHz Bandwidth, 6 Measured | Max Value | Limit | |
|---------------------------------|---|---|--|---|--|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 3 GHz | 2671.83 | -24.54 | -19 | Pass |
| | analyzer - Element Materials Technology | | | | |
| LXIRL RF | 50 Ω DC | SENSE:INT | ALIGN OFF Avg Type: I | RMS | 10:43:33 AM Jun 22, 2020 TRACE 1 2 3 4 5 6 |
| | PNO: Fa IFGain:L | | Avg Hold: 1 | 00/100 | TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N |
| Ref | Offset 41.6 dB | | | Mk | r1 2.671 8 GHz -24.544 dBm |
| 10 dB/div Ref | ′ 50.60 dBm | | | | -24.044 (10) |
| | | | | | |
| 40.6 | | | | | |
| | | | | | |
| 30.6 | | | | | |
| 20.6 | | | | | |
| 20.0 | | | | | |
| 10.6 | | | | | |
| | | | | | |
| 0.600 | | | | | |
| | | | | | |
| -9.40 | | | | | |
| | | | | | -19.00 dBm |
| -19.4 | | | | | •1 |
| -29.4 | والمواجع والمراجع والمتاسية ومراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع | | and the second | enter ander and and and and | |
| | | | | | |
| -39.4 | | | | | |
| | | | | | |
| Start 0.020 GH #Res BW 1.0 M | | #VBW 3.0 MHz* | | Sween 3 | Stop 3.000 GHz 733 ms (8001 pts) |
| MSG | m12 | | STATUS | oncep o. | r 35 m3 (800 r pt3) |
| mod | | | pinioo | | |
| Port 4 | , Band n25, 1930 MHz - 1995 I | MHz , 5 MHz Bandwidth, 6 | 4-QAM Modulatio | n, Mid Channel 1 | 962.5 MHz |
| | Frequency | Measured | Max Value | Limit | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 3 GHz - 10 GHz | 3887.25 | -38.23 | -19 | Pass |
| W Kawisht Sast | Analyzer - Element Materials Technology | | | | |
| RL RF | | SENSE:INT | ALIGN OFF | | 10:57:16 AM Jun 22, 2020 TRACE 1 2 3 4 5 6 |

| RL | RF | 50 Ω DC | | | SENSE:INT | | LIGN OFF | | | AM Jun 22, 202 |
|------------------|-----------|------------|-----------------|--------------------------|---|---------------------------|--|-------------------------|---|----------------------|
| | | | | PNO: Fast ↔ FGain:Low | Trig: Free I #Atten: 6 d | | Avg Type: Avg Hold: { | | | |
| | Ref Offs | et 26.9 dE | ; | | | | | Mk | r1 3.887 | 250 GH 228 dB |
| dB/div | Ref 21. | .90 dBm | | 1 | | I | l | 1 | -00. | |
| | | | | | | | | | | |
| .9 | | | | | | | | | | |
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| 30 | | | | | | | | | | |
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| 10 | | | | | | | | | | |
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| .1 | | | | | | | | | | -19.00 (|
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| .1 | the later | | | a fragilit | Contraction of the second s | And all the same finite | and the second second second second | ويوانيدانون روغا كالقعم | | (Dista) Astronomical |
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| .1 | | | | | | | | | | |
| | | | | | | | | | | |
| art 3.00 | | | | | | | | | Stop | 0.000 GH |
| | 2.0 MHz | | | #VI | 3W 6.0 MHz | | | Sweep | ວເວຍ 11.73 ms | |
| ì | | | | | | | STATUS | | | |
| C STORAGE STREET | | | | | | | All the second s | | | |



| | Frequency | | Measured | Max Value | Limit | Desult | |
|-------------------------------------|----------------------------------|-------------------------------------|---------------------|------------------------|----------------|---|-----|
| | Range 10 GHz - 18 GHz | | Freq (MHz) 15430 | (dBm) -36.47 | < (dBm) -19 | Result Pass | |
| | 10 GHZ - 18 GHZ | | 15430 | -30.47 | -19 | Pass | |
| | | | | | | | |
| | alyzer - Element Materials Techr | | | • ····· | | | |
| K RL RF | 50 Ω DC | 1 | SENSE:INT | ALIGN OFF Avg Type: | Log-Pwr | 10:58:29 AM Jun 22, 202 TRACE 1 2 3 4 5 | |
| | | PNO: Fast +++ | Trig: Free Run | Avg Hold: | | TYPE MWWWW DET P N N N N | AA4 |
| | | IFGain:Low | #Atten: 6 dB | | | | |
| Ref O | ffset 30.8 dB | | | | M | kr1 15.430 GH | |
| | 25.80 dBm | | | | | -36.466 dBr | n |
| Log | | | | | | | |
| 45.0 | | | | | | | |
| 15.8 | | | | | | | |
| | | | | | | | |
| 5.80 | | | | | | | |
| | | | | | | | |
| -4.20 | | | | | | | |
| | | | | | | | |
| -14.2 | | | | | | -19.00 dE | |
| | | | | | | | |
| -24.2 | | | | | | | |
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| -34.2 | | | a ba b a ab .de | 1.0.10.00.001 | | and the second | |
| <mark>a ha ik ha birda karat</mark> | | فالبار المعرية والمتحل المتحل أخطاه | | | | a sel la del parte difficiente de la constante Nombre de la constante de la constante de la constante Nombre de la constante de la constante de la constante de | |
| -44.2 | | | | | | | |
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| -54.2 | | | | | | | |
| | | | | | | | |
| -64.2 | | | | | | | |
| | | | | | | | |
| Start 10.000 GH | z | | | | | Stop 18.000 GH | z |
| #Res BW 2.0 Mi | | #VB\ | N 6.0 MHz | | Sweep 1 | 3.33 ms (8001 pt | |
| MSG | | | | STATUS | | | |

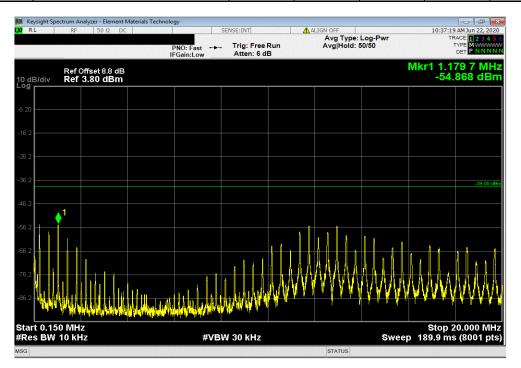
| 1 oft 1, Bana 1120, 1000 finite 10000 | in in , o in in Danianiani, c | , a, an moudaida | on, ma onanior | |
|---------------------------------------|-------------------------------|------------------|----------------|--------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 18 GHz - 22 GHz | 21765 | -26.37 | -19 | Pass |

| RL | RF 50 | 0Ω DC | Sector Constants | SENSE:INT | 4 | ALIGN OFF | | 11:06:4 | 4 AM Jun 22, 202 |
|-----------|---|--|----------------------|-----------------------------|--------------------------------------|---|-------|--|--|
| | | | O: Fast ↔ ain:Low | , Trig: Free #Atten: 6 d | | Avg Type: Avg Hold: | | | RACE 1234 TYPE M DET PNNN |
|) dB/div | Ref Offset Ref 37.60 | | | | | | N | lkr1 21.7 -26 | '65 0 GH .365 dBi |
| 9 | | | | | | | | | |
| 7.6 | | | | | | | | | |
| 7.6 | | | | | | | | | |
| .60 | | | | | | | | | |
| 40 | | | | | | | | | |
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| 2.4 | | | | | | | | | -19.00 c |
| 2.4 | | | | | | | | | 1 − |
| 2.4 | a da la la de desta da la desta da la desta de la d En la desta de l | <mark>heter (hij) heter het heter heter het</mark> | | | daha (kandu) ada kapangan (kandu) | ية المراجع (1993) ويقد الرائض المحال المحرج والمراجع والمحال | | ية إن أور طلال التي أن علما والأ وريد علم معادة عنه إسروني وا | and the second s |
| 2.4 | | | | | | | | | |
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| 2.4 | | | | | | | | | |
| tart 18.0 | 00 GHz | | | | | | | | 22.000 GH |
| Res BW | 1.0 MHz | | #VE | 3W 3.0 MHz | | | Sweep | 6.933 m | s (8001 pt |



| Frequ | | Measured | Max Value | Limit | Bernit |
|--|---------------------------|-------------------------------|------------------------|----------------|--|
| Rar | | Freq (MHz) | (dBm) -70.54 | < (dBm) | Result |
| 9 kHz - 1 | 150 KHZ | 0.01 | -70.54 | -49 | Pass |
| | | | | | |
| 📜 Keysight Spectrum Analyzer - Element Ma | | | | | |
| RL RF 50 Ω DC | S | ENSE:INT | ALIGN OFF Avg Type: | Log-Pwr | 10:36:07 AM Jun 22, 2020 |
| | PNO: Wide ↔ IFGain:Low | Trig: Free Run Atten: 6 dB | Avg Hold: (| | TRACE 12345 TYPE MWWWW DET PNNNN |
| Ref Offset 9.7 dB | | | | Ν | /kr1 10.727 kH -70.537 dBn |
| 10 dB/div Ref 4.70 dBm | | | | , | -70.007 0.001 |
| | | | | | |
| -5.30 | | | | | |
| | | | | | |
| -15.3 | | | | | |
| 13.3 | | | | | |
| 25.2 | | | | | |
| -25.3 | | | | | |
| | | | | | |
| -35.3 | | | | | |
| | | | | | |
| -45.3 | | | | | -49.00 dB |
| | | | | | |
| -55.3 | | | | | |
| | | | | | |
| -65.3 -1 | | | | | |
| -75.3 | | | | | |
| Morth on the or | | | | | |
| -85.3 | www.www.what | | | | ۵ |
| -75.3 444444444444444444444444444444444444 | | Mr. Marken Marken | Manman | March Margania | antron Manage |
| Start 9.00 kHz #Res BW 1.0 kHz | #VBV | V 3.0 kHz | | Sweep | Stop 150.00 kHz 134.9 ms (8001 pts |
| MSG | | | STATUS | | |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 5 M | IHz Bandwidth, 2 | 56-QAM Modulati | on, Mid Channel | 1962.5 MHz | |
|---|------------------|-----------------|-----------------|------------|--|
| Frequency | Measured | Max Value | Limit | | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result | |
| 150 kHz - 20 MHz | 1.18 | -54.87 | -39 | Pass | |





| | Frequency Range | MHz , 5 MHz Bandwidth, 2 Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result |
|---------------------------------|---|--|------------------------------|--------------------------|--|
| | 20 MHz - 3 GHz | 2622.29 | -24.81 | < (автт) -19 | Pass |
| . | | | | | |
| | nalyzer - Element Materials Technology 50 Ω DC | SENSE:INT | ALIGN OFF | | 📼 🗗 🗗 🔜 10:41:38 AM Jun 22, 2020 |
| | PNO: IFGain | Fast ↔→ Trig: Free Run :Low #Atten: 22 dB | Avg Type: Avg Hold: 1 | RMS 100/100 | TRACE 1 2 3 4 5 (TYPE A WWWW DET A NNNN |
| Ref 10 dB/div Ref | Dffset 41.6 dB 50.60 dBm | | | Mk | r1 2.622 3 GHz -24.812 dBm |
| | | | | | |
| 40.6 | | | <mark>.</mark> | | |
| | | | | | |
| 30.6 | | | | | |
| 20.6 | | | | | |
| 20.6 | | | | | |
| 10.6 | | | | | |
| | | | | | |
| 0.600 | | | | | |
| -9.40 | | | | | |
| 0.40 | | | | | |
| -19.4 | | | | | -19.00 dBm |
| | | | | | Name and the state of the state |
| -29.4 | | | | | |
| -39.4 | | | | | |
| | | | | | |
| Start 0.020 GH #Res BW 1.0 N | | #VBW 3.0 MHz* | | Sweep 3 | Stop 3.000 GHz 733 ms (8001 pts |
| MSG | | | STATUS | • | |
| | | | | | |
| Port 4, | Band n25, 1930 MHz - 1995 | MHz , 5 MHz Bandwidth, 2 Measured | 56-QAM Modulati Max Value | on, Mid Channel Limit | 1962.5 MHz |
| | Frequency Range | Measured Freq (MHz) | Max value (dBm) | < (dBm) | Result |
| | 3 GHz - 10 GHz | 3772.63 | -37.45 | -19 | Pass |
| | | | | | |
| | nalyzer - Element Materials Technology 50 Ω DC | SENSE:INT | ALIGN OFF | | 10:59:45 AM Jun 22, 2020 |

| | | | PNO: Fast 🔸 | Trig: Free #Atten: 6 c | Avg Type: Avg Hold: (| Log-Pwr 50/50 | т | RACE 1 2 3 4 5 TYPE M DET P NNNN |
|---------------------|------------------------------------|----------------------|-------------|--|--------------------------|------------------|---------------------------|--|
| 0 dB/div | Ref Offset 26.9 d Ref 21.90 dBr | | | | | MI | | 2 625 GH .451 dBr |
| 11.9 | | | | | | | | |
| .90 | | | | | | | | |
| .10 | | | | | | | | |
| 8.1 | | | | | | | | -19.00 df |
| 8.1 | | | | | | | | |
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| 8.1 | | | | | | | | |
| 8.1 | | | | | | | | |
| | | | | | | | | |
| tart 3.00 Res BW | 0 GHz 2.0 MHz | | #VB | W 6.0 MHz | | Swee | Stop p 11.73 m | 10.000 GH s (8001 pt |
| SG | | | | | STATUS | | | |



| | Frequency | | Measured | I M | ax Value | Limit | | |
|---------------------------|--|-----------------------------|---|-------------------|--------------------------------|--------------------------|---------------------------------------|--------|
| | Range | | Freq (MHz | :) | (dBm) | < (dBm) | Result | |
| | 10 GHz - 18 GH | Ηz | 14371 | | -35.96 | -19 | Pass | |
| | | | | | | | | |
| Keysight Spectrum | Analyzer - Element Materials Te | chnology | | | | | | X |
| LXI RL RF | | | SENSE:INT | <u>^</u> | ALIGN OFF | | 11:01:04 AM Jun 22, | 2020 |
| | | | | | Avg Type: | | TRACE 1 2 3 | 456 |
| | | PNO: Fast ++- IFGain:Low | Trig: Free Run #Atten: 6 dB | | Avg Hold: | 50/50 | TYPE M | NNN |
| | | II Galil.LOW | <i>"</i> / | | | | kr1 14.371 G | - |
| | Offset 30.8 dB | | | | | IV | -35.959 di | |
| 10 dB/div Ref | f 25.80 dBm | | | | | | -35.959 u | DIII |
| 5 | | | | | | | | |
| 15.0 | | | | | | | | |
| 15.8 | | | | | | | | |
| | | | | | | | | |
| 5.80 | | | | | | | | |
| | | | | | | | | |
| -4.20 | | | | | | | | |
| | | | | | | | | |
| -14.2 | | | | | | | | |
| | | | | | | | | 00 dBm |
| -24.2 | | | | | | | | |
| | | | | | | | | |
| -34.2 | | | | ▲1 | | | | |
| | a and the state of | and the second second | . Headle to store and a | دفر جار الغرار | الأرب الطب بمعارية فالله | المرافع والمرافع المرافع | interdent open bei ein beiten beiten. | |
| ليرجعه أأحمص وبالقاطين وا | a dan bertakan dari bertak Bertakan dari bertakan dari | | | La Hiller Handler | Internet and a second party of | | the stand part of the stand stand | Lating |
| -44.2 | | | | | | | | |
| | | | | | | | | |
| -54.2 | | | | | | | | |
| | | | | | | | | |
| -64.2 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Start 10.000 G | | | | | | S | Stop 18.000 (| |
| #Res BW 2.0 I | VINZ | #VB | W 6.0 MHz | | | Sweep | 13.33 ms (8001 | prs) |
| MSG | | | | | STATUS | | | |

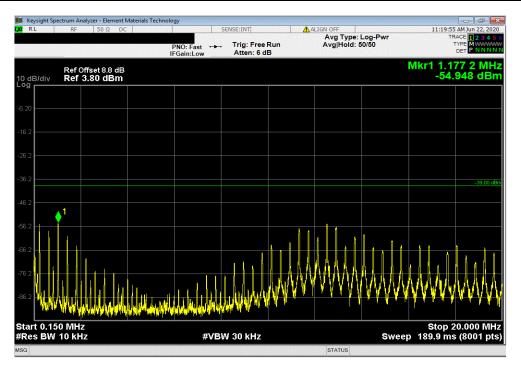
| Port 4, Band n25, 1930 MHz - 1995 MHz , 5 N | /Hz Bandwidth, 2 | 56-QAM Modulati | on, Mid Channel | 1962.5 MHz |
|---|------------------|-----------------|-----------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 18 GHz - 22 GHz | 21849.5 | -26.13 | -19 | Pass |

| RL | RF | 50 Ω [| DC | Construction (Construction) | S | ENSE:INT | | ALIGN OFF | | 11:08:2 | 9 AM Jun 22, 202 |
|--------------------|-----------------|---------------------------------------|----|-----------------------------|-----|---------------------------|---|--|-------------------------|--|------------------------------------|
| | | | | PNO: Fast IFGain:Low | ••• | Trig: Free #Atten: 6 d | | Avg Type: Avg Hold: (| | | RACE 1234 TYPE MWWW DET PNNN |
|) dB/div | | set 42.6 d 7.60 dB | | | | | | | N | 1kr1 21.8 -26 | 49 5 GH 132 dBi |
| | | | | | | | | | | | |
| 7.6 | | | | | | | | | | | |
| 7.6 | | | | | | | | | | | |
| .60 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 2.4 | | | | | | | | | | | |
| 2.4 | | | | | | | | | | | <u>-19.0</u> 0 d |
| | n da en di etal | lad Day kay Dipad Responsed to the | | , a fail de thai a | | | Les plantités de la surre d Les poster de la surre de la | an in the second se | a alah sa farahasi sa k | ار المربية المراجلية المراجلية المراجلية المراجلية المراجلية المراجلية المراجلية المراجلية المراجلية المراجلية محمد المراجلية المراجل | |
| 2.4 | | | | | | | | | | | |
| 2.4 | | | | | | | | | | | |
| | | | | | | | | | | | |
| art 18.0 Res BW | | | | | | V 3.0 MHz | 1 | | Swoo | Stop 2 0 6.933 m | 22.000 GH |



| | Frequency | | Measur | | Max Value | Limit < (dBm) | Result | |
|----------------------|---|---------------|--|-----------|-------------------|------------------|---|---------|
| | Range 9 kHz - 150 kH | 7 | Freq (M 0.01 | nz) | (dBm) -69.81 | < (автт) -49 | Pass | 1 |
| | 9 KHZ - 150 KH | 2 | 0.01 | | -09.01 | -49 | F d S S | |
| | | | | | | | | - |
| Keysight Spectrum An | alyzer - Element Materials Tec 50 Ω DC | hnology | SENSE:INT | | ALIGN OFF | | 11:18:38 AM Jun 22, 20 | |
| | 00 S2 DC | | JENJE.INI | | Avg Type: | | TRACE 1 2 3 4 | 5.6 |
| | | PNO: Wide 🔸 | Trig: Free R Atten: 6 dB | | Avg Hold: | 50/50 | TRACE 1 2 3 4 TYPE MWWW DET P N N N | N N N |
| | | IFGain:Low | Attent 6 db | | | | | 2.102.0 |
| Ref O | ffset 9.7 dB | | | | | | Mkr1 9.000 kl -69.812 dB | |
| 10 dB/div Ref | 4.70 dBm | | | | | | -09.012 UE | |
| Ŭ | | | | | | | | |
| -5.30 | | | | | | | | |
| | | | | | | | | |
| -15.3 | | | | | | | | |
| 10.0 | | | | | | | | |
| -25.3 | | | | | | | | |
| -20.0 | | | | | | | | |
| 25.2 | | | | | | | | |
| -35.3 | | | | | | | | |
| | | | | | | | | |
| -45.3 | | | | | | | -49.00 | dBm |
| | | | | | | | | |
| -55.3 | | | | | | | | |
| | | | | | | | | |
| -65.3 | | | | | | | | |
| Man | | | | | | | | |
| -75.3 * WWWWWWW | м | | | | | | | |
| | month MM marchel. | به ۵ م ۱۹ | | | | | | |
| -85.3 | 1 | A turbary MMA | WWWWWWWW AN | Lama . | h. m | | | |
| | Monor And American | | 1 | Annual AM | who we who way we | in hour way | when how how | MA. |
| Start 9.00 kHz | | | | | | | Stop 150.00 k | |
| #Res BW 1.0 kH | Iz | #VE | W 3.0 kHz | | | Sweep | 134.9 ms (8001 p | |
| MSG | | | | | STATUS | | | |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 10 N | /Hz Bandwidth, 2 | 56-QAM Modulat | tion, Mid Channel | 1962.5 MHz |
|--|------------------|----------------|-------------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 1.18 | -54.95 | -39 | Pass |





| | t 4, Band n25, 1930 MHz - 1995 MHz Frequency | Measured | Max Value | Limit | 1002.0 11112 |
|-----------------------|--|---|------------------------------|------------------|---|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 3 GHz | 2604.03 | -24.84 | -19 | Pass |
| | | | | | |
| Keysight Spect R L | trum Analyzer - Element Materials Technology RF 50 Ω DC | SENSE:INT | ALIGN OFF | | 11:22:46 AM Jun 22, 2020 |
| N.C. | 10 30 32 00 | | Avg Type: | RMS | TRACE 1 2 3 4 5 0 TYPE A WWWWW DET A NNNN |
| | PNO: Fast IFGain:Low | Trig: Free Run #Atten: 22 dB | Avg Hold: 1 | 100/100 | |
| | Ref Offset 41.6 dB | | | Mk | r1 2.604 0 GHz |
| 10 dB/div Log | Ref 50.60 dBm | | | | -24.842 dBm |
| | | | | | |
| 40.6 | | | | | |
| | | | | | |
| 30.6 | | | | | |
| | | | | | |
| 20.6 | | | | | |
| 10.0 | | | | | |
| 10.6 | | | | | |
| 0.600 | | | | | |
| | | | | | |
| -9.40 | | | | | |
| | | | | | -19.00 dBm |
| -19.4 | | | | | 1 |
| | | and a second statement of the second | and the second second second | | |
| -29.4 | | | | | |
| -39.4 | | | | | |
| | | | | | |
| Start 0.020 | GHz | | | | Stop 3.000 GHz |
| #Res BW 1 | | VBW 3.0 MHz* | | Sweep 3. | 733 ms (8001 pts |
| MSG | | | STATUS | | |
| Por | t 4, Band n25, 1930 MHz - 1995 MHz | 10 MHz Bandwidth 2 | 56-QAM Modulat | ion Mid Channel | 1962 5 MHz |
| | Frequency | Measured | Max Value | Limit | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 3 GHz - 10 GHz | 3859.25 | -38.32 | -19 | Pass |
| | | | | | |
| Keysight Spect | rum Analyzer - Element Materials Technology RF 50 Ω DC | SENSE:INT | ALIGN OFF | | 11:25:04 AM Jun 22, 2020 |
| | PNO: Fast IFGain:Low | Teles Free Due | Avg Type: Avg Hold: { | Log-Pwr 50/50 | TRACE 1 2 3 4 5 0 TYPE MWWWW DET P NNNN |

| | | IF | Gain:Low | #Atten: 6 c | В | | | | DET |
|---------------|-------------------------------------|---------------------------------|----------------------------------|------------------|----------------------------------|--------------------------------|---|------------------------------------|------------------|
|) dB/div | Ref Offset 26.9 dB Ref 21.90 dBm | | | | | | Mł | (r1 3.859 -38. | 250 GF 324 dB |
| ^{/g} | | | | | | | | | |
| 1.9 | | | | | | | | | |
| .90 | | | | | | | | | |
| 10 | | | | | | | | | |
| 3.1 | | | | | | | | | -19.00 |
| | | | | | | | | | |
| 3.1 | <u>1</u> | | | | | | | | |
| 8.1 | | in this is a line of the second | And the second second | alatica, tarihti | i daga ka baharing | al deres ha stalle et en set | | Magan and a start | ile la chiefean |
| 3.1 | | | and a star of a start of a start | and the sub- | indegen, provide a con faithfull | ىر چەلەستەرلەيلامىي يىل ۋاتىيا | a a selection of a se | ن بعد سامالات القرار <u>مر</u> ينا | Den Brookspill |
| 3.1 | | | | | | | | | |
| | | | | | | | | | |
| 3.1 | | | | | | | | | |
| tart 3.00 | 0 GHz 2.0 MHz | | #\/B | W 6.0 MHz | | | Swoor | Stop 1 0 11.73 ms | 10.000 GH |
| G DW | 2.0 WHZ | | #VD | | | STATUS | oweet | | r toon i hi |



| | Frequency | | Measured | Max Value | Limit | | |
|------------------------------|---|-------------------------|--|--|--|---|----------|
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result | |
| 1 | 0 GHz - 18 GHz | | 13809 | -35.81 | -19 | Pass | |
| | | | | | | | |
| Keysight Spectrum Analyzer - | Element Materials Technology | | | | | | X |
| IXI RL RF 50 | DC DC | S | SENSE:INT | ALIGN OFF | | 11:26:23 AM Jun 22, | |
| | DN | | Trig: Free Run | Avg Type Avg Hold: | : Log-Pwr 50/50 | TRACE 1 2 3 TYPE MWA | WAAAAA |
| | | O: Fast ↔→ ain:Low | #Atten: 6 dB | | | DET P N N | INNN |
| B (95) | 20.0 ID | | | | | Mkr1 13.809 G | GHz |
| 10 dB/div Ref 25.80 | 30.8 dB 0 dBm | | | | | -35.809 d | |
| Log | | | | | | | |
| | | | | | | | |
| 15.8 | | | | | | | |
| | | | | | | | |
| 5.80 | | | | | | | |
| | | | | | | | |
| -4.20 | | | | | | | |
| | | | | | | | |
| -14.2 | | | | | | | |
| | | | | | | | 00 dBm |
| -24.2 | | | | | | | |
| | | | | | | | |
| -34.2 | | | <u> </u> | | | | |
| ST.2 | An an a har a large day and the second second | المعالم المعالم | LUCE CONTRACTOR OF THE | and stability as a laboral sector of the | والمتحد والقراف والمراد والتقاديان | ومستور ومسطو فالخرأة فأفراد ورورو والمواط والمراجعة | addease |
| -44.2 | والمتحديق والمتحافظ والمتحد والمتحد | date of a second second | Constant of the state of the st | a hittig for a feat white a stability made to | المحمقا والقنامة لري ومنه بالألتانية أفريا | Within the state of the state of the | del an |
| | | | | | | | |
| -54.2 | | | | | | | |
| -04.2 | | | | | | | |
| 64.9 | | | | | | | |
| -64.2 | | | | | | | |
| | | | | | | | |
| Start 10.000 GHz | | | | | | Stop 18.000 | GHz |
| #Res BW 2.0 MHz | | #VB\ | N 6.0 MHz | | Sweep | 13.33 ms (8001 | pts) |
| MSG | | | | STATUS | | | |

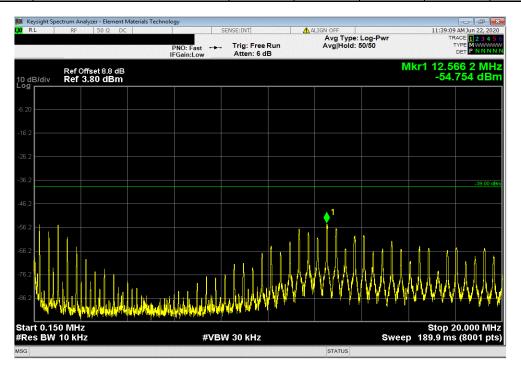
| Port 4, Band n25, 1930 MHz - 1995 MHz , 10 | MHz Bandwidth, 2 | 56-QAM Modulat | ion, Mid Channel | 1962.5 MHz |
|--|------------------|----------------|------------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 18 GHz - 22 GHz | 21638 | -25.37 | -19 | Pass |

| RL | RF 50 Ω D | C | Constant Constant Constant | SENSE:INT | | ALIGN OFF | | 11:28:43 | AM Jun 22, 202 |
|-------------|---|---|----------------------------|--------------------------------|--|----------------------------|--------------------|--|---------------------------------------|
| | | | PNO: Fast ↔ FGain:Low | Trig: Free #Atten: 6 c | Run | Avg Type: I Avg Hold: 5 | | т | ACE 1 2 3 4 1 YPE M DET P N N N |
| dB/div | Ref Offset 42.6 d Ref 37.60 dBr | | | | | | Μ | kr1 21.6 -25. | 38 0 GH 373 dBi |
| - | | | | | | | | | |
| '.6 | | | | | | | | | |
| '.6 | | | | | | | | | |
| 60 | | | | | | | | | |
| 40 | | | | | | | | | |
| .4 | | | | | | | | | |
| .4 | | | | | | | | | ▲ <u>1 -19.00 c</u> |
| | al al a la suite de la suit | | | alative helds to be a describe | ار والالار وأو الالار الإورامية والالار والالار | | alland states with | til forsøde <mark>ls stil produ</mark> Hennesse | |
| .4 | | | | | | | | | |
| | | | | | | | | | |
| 2.4 | | | | | | | | | |
| art 18.0 | 00 GHz 1.0 MHz | | -44.1 | BW 3.0 MHz | | | 0 | Stop 2 6.933 ms | 2.000 GH |



| Frequency Range | | Measured Freq (MHz) | Max Value (dBm) | Limit < (dBm) | Result |
|--|------------------------------|---|------------------------|------------------|--|
| 9 kHz - 150 kH | 17 | 0.01 | -71.26 | -49 | Pass |
| 3 KHZ - 130 KH | | 0.01 | -71.20 | -43 | 1 435 |
| 鱦 Keysight Spectrum Analyzer - Element Materials Teo | chnology | | | | |
| LXI RL RF 50Ω DC | | SENSE:INT | ALIGN OFF Avg Type: | Les Dur | 11:38:01 AM Jun 22, 2020 |
| | PNO: Wide +++ | Trig: Free Run Atten: 6 dB | Avg Hold: | | TRACE 1 2 3 4 5 TYPE M WWW DET P N N N N |
| Ref Offset 9.7 dB 10 dB/div Ref 4.70 dBm | | | | | Mkr1 9.934 kHz -71.256 dBm |
| Log | | | | | |
| -5.30 | | | | | |
| -15.3 | | | | | |
| -10.0 | | | | | |
| -25.3 | | | | | |
| -35.3 | | | | | |
| | | | | | |
| -45.3 | | | | | -49.00 dBn |
| -55.3 | | | | | |
| -65.3 - 1 | | | | | |
| -75.3 | | | | | |
| 10.5 March all with which which are a | | | | | |
| -75.3 WWWWWWWWWWWWWWW -85.3 Start 9.00 kHz | walker war have been and the | man and an the former and the former | Mr. Monun | M.M.M.M. | MMANN |
| Start 9.00 kHz | | | N | | Stop 150.00 kHz |
| #Res BW 1.0 kHz | #VB | N 3.0 kHz | STATUS | Sweep | 134.9 ms (8001 pts |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 15 M | /Hz Bandwidth, 2 | 56-QAM Modulat | ion, Mid Channel | 1962.5 MHz |
|--|------------------|----------------|------------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 12.57 | -54.75 | -39 | Pass |





| 1.011 | 4, Band n25, 1930 MHz - 1995 M Frequency | Measured | Max Value | Limit | |
|------------------------------|--|---------------------------------------|--|--|--|
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 3 GHz | 2734.04 | -24.36 | -19 | Pass |
| | | | | | |
| | rm Analyzer - Element Materials Technology RF 50 Ω DC | SENSE:INT | ALIGN OFF | | 11:41:49 AM Jun 22, 2020 |
| | | | Avg Type: | RMS | TRACE 1 2 3 4 5 (|
| | PNO: Fa IFGain:L | st Trig: Free Run ow #Atten: 22 dB | Avg Hold: 1 | 00/100 | TYPE A WWWWW DET A NNNN |
| R | Ref Offset 41.6 dB | | | Mł | r1 2.734 0 GHz -24.359 dBm |
| 10 dB/div R | Ref 50.60 dBm | | | | -24.559 dBm |
| | | | | | |
| 40.6 | | | | | |
| | | | | | |
| 30.6 | | | | | |
| | | | | | |
| 20.6 | | | | | |
| | | | | | |
| 10.6 | | | | | |
| 0.600 | | | | | |
| 0.000 | | | | | |
| -9.40 | | | | | |
| | | | | | |
| -19.4 | | | | | -19.00 dBm |
| | | | | and the life of the state of the state | with the provident of the providence in the prov |
| -29.4 | | | the second s | | |
| 20.4 | | | | | |
| -39.4 | | | | | |
| | | | | | |
| Start 0.020 0 #Res BW 1.0 | | #VBW 3.0 MHz* | | Sweep 3 | Stop 3.000 GHz .733 ms (8001 pts) |
| MSG | | | STATUS | | |
| | | | | | |
| Port | 4, Band n25, 1930 MHz - 1995 M Frequency | Hz , 15 MHz Bandwidth, 2 Measured | 256-QAM Modulati Max Value | ion, Mid Channe Limit | 1962.5 MHz |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 3 GHz - 10 GHz | 3798 | -37.43 | -19 | Pass |
| | | | | | |
| | rm Analyzer - Element Materials Technology RF 50 Ω DC | SENSE:INT | ALIGN OFF | | 11:43:57 AM Jun 22, 2020 |
| | in prese ere l | UNITED INTO A | Avg Type: | og-Pwr | TRACE 1 2 3 4 5 (|

| | | | PNO: Fast 🔸 | . Trig: Free #Atten: 6 c | | Avg Type: Avg Hold: 5 | | | ACE 1 2 3 4 5 TYPE M DET PNNN |
|---------------------|-------------------------------------|------------------------------|--|-----------------------------|---|--------------------------|-------|--------------------|-------------------------------------|
| 0 dB/div | Ref Offset 26.9 df Ref 21.90 dBm | 3 1 | | | | | Mk | r1 3.798 -37. | 000 GH 434 dBr |
| - | | | | | | | | | |
| 1.9 | | | | | | | | | |
| .90 | | | | | | | | | |
| 10 | | | | | | | | | |
| 3.1 | | | | | | | | | -19.00 c |
| 8.1 | | | | | | | | | |
| 3.1 | | A Dila sette diffa en de las | | | | | | | |
| 8.1 | | | the state of the second se | | in dilla di propi con di di Statuti di stato di stato di stato Stato di stato di stato di stato di stato di stato | | | | |
| 3.1 | | | | | | | | | |
| 3.1 | | | | | | | | | |
| | | | | | | | | | |
| tart 3.00 Res BW | 0 GHz 2.0 MHz | | #VB | W 6.0 MHz | | | Sweep | Stop 1 11.73 ms | 0.000 GH |
| G | | | | | | STATUS | | | |



| | Frequency | | Measured | Max Value | Limit | |
|----------------|--------------------------------------|-------------------------------------|--|------------------------|---------|--|
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 10 GHz - 18 GH: | 7 | 14897 | -35.97 | -19 | Pass |
| | | | | | | |
| | Analyzer - Element Materials Tech | nology | | | |) @- - |
| LX/RL RF | 50 Ω DC | | SENSE:INT | ALIGN OFF Avg Type: | | 11:45:10 AM Jun 22, 2020 |
| | | PNO: Fast +++ | Trig: Free Run | Avg Type: Avg Hold: | | TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N |
| | | IFGain:Low | #Atten: 6 dB | | | DET PNNNN |
| | | | | | M | kr1 14.897 GH |
| 10 dB/div Ref | Offset 30.8 dB * 25.80 dBm | | | | | -35.972 dBn |
| Log | 20.00 0.011 | | | | | |
| | | | | | | |
| 15.8 | | | | | | |
| | | | | | | |
| 5.80 | | | | | | |
| | | | | | | |
| -4.20 | | | | | | |
| -4.20 | | | | | | |
| | | | | | | |
| -14.2 | | | | | | -19.00 dBr |
| | | | | | | |
| -24.2 | | | | | | |
| | | | | <u>^</u> 1 | | |
| -34.2 | | | | | | |
| | | المرجاة والأحجا والألق وأحقه الألجا | and dealer the last of the second | | | |
| -44.2 | | | | | | |
| | | | | | | |
| -54.2 | | | | | | |
| | | | | | | |
| -64.2 | | | | | | |
| | | | | | | |
| | | | | | | |
| Start 10.000 G | | | | | | Stop 18.000 GHz |
| #Res BW 2.0 N | ЛНz | #VB\ | W 6.0 MHz | | Sweep 1 | 3.33 ms (8001 pts |
| MSG | | | | STATUS | | |

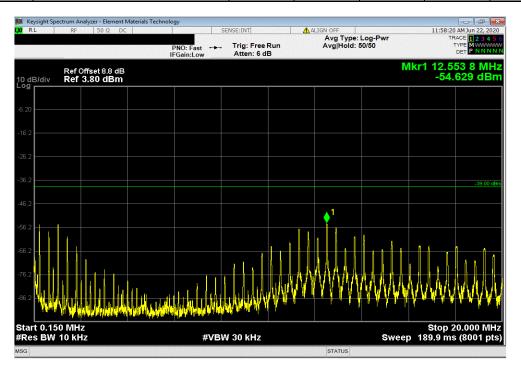
| | 1 off 1, Dana 120, 1000 11112 1000 11112, 10 | in in Daniani, 1 | | aon, ma onamio | 1002.0 1111.12 |
|---|--|------------------|-----------|----------------|----------------|
| | Frequency | Measured | Max Value | Limit | |
| | Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| [| 18 GHz - 22 GHz | 19434 | -26.36 | -19 | Pass |

| RL RF 50 Ω DC | SENSE | E:INT A | ALIGN OFF | 11:47:14 AM Jun 22, 202 |
|--|--|--|---|--|
| | | rig: Free Run Atten: 6 dB | Avg Type: Log-Pwr Avg Hold: 50/50 | TRACE 1 2 3 4 5 TYPE M WWWW DET P NNNN |
| Ref Offset 42.6 dB dB/div Ref 37.60 dBm | | | | Mkr1 19.434 0 GH -26.356 dBi |
| | | | | |
| 7.6 | | | | |
| 7.6 | | | | |
| 60 | | | | |
| 40 | | | | |
| 2.4 | | | | |
| 2.4 | 1 | | | -19.00 c |
| n karan an ar madaarid it dan dan bahar da bahar | tali da internationale de la contrata de la contra | e het general en de statistiche en faite de statiste de st | il liver de provide des sons la prime de la constantion de la destata | a bill ad te sa attact attack attack attack and distance |
| 2.4 (1997) - 1997 (1997) - 199 | | و سميري بي من من من بي | | |
| 2.4 | | | | |
| 2.4 | | | | |
| tart 18.000 GHz Res BW 1.0 MHz | #VBW 3 | | | Stop 22.000 GF p 6.933 ms (8001 pt |



| | Freque | | Measu | | | Limit | | |
|-------------------|-------------------------|--|--------------------|------------------|-------------|---------|--------------------|----------|
| | Rang | | Freq (M | | | < (dBm) | Result | _ |
| | 9 kHz - 15 | 50 kHz | 0.01 | -71.0 | 3 | -49 | Pass | |
| | | | | | | | | |
| Keysight Spectrum | Analyzer - Element Mate | rials Technology | | | | | []-é | P 23 |
| XIRL RI | F 50 Ω DC | | SENSE:INT | 🔥 ALIGN OF | | | 11:57:08 AM Jun 22 | |
| | | | Telev Free F | | g Type: Log | | | 3 4 5 |
| | | PNO: Wide IFGain:Lov | | | Hold: 50/5 | U | | NNN |
| | | n Gam.Lov | | | | | Mkr1 9.000 | |
| Ret | f Offset 9.7 dB | | | | | | -71.033 d | |
| 10 dB/div Re | ef 4.70 dBm | | | | | | -71.0550 | ЮШ |
| | | | | | | | | |
| | | | | | | | | |
| -5.30 | | | | | | | | |
| | | | | | | | | |
| -15.3 | | | | | | | | |
| | | | | | | | | |
| -25.3 | | | | | | | | |
| | | | | | | | | |
| -35.3 | | | | | | | | |
| -33.3 | | | | | | | | |
| | | | | | | | | |
| -45.3 | | | | | | | -49 | 9.00 dBm |
| | | | | | | | | |
| -55.3 | | | | | | | | |
| | | | | | | | | |
| -65.3 - 1 | | | | | | | | |
| | | | | | | | | |
| -75 3 Am AM | | | | | | | | |
| 10 414 M | America marca | | | | | | | |
| | 1 W WY WY | WWW LANDON A | 1 | | | | | |
| -85.3 | | A MANAGE AND | Work Margaret | more more a made | | | . 1 | |
| | | | | a hou had an a | MANAMAN | monon | mound be | he dre |
| Start 9.00 kHz | 7 | | ۳۳ ۳۷BW 3.0 kHz | | | | Stop 150.00 | kHz |
| #Res BW 1.0 | kHz | | #VBW 3.0 kHz | | | Sweep 1 | 34.9 ms (8001 | pts) |
| MSG | | | | TZ | ATUS | | | |
| | | | | 51. | AIUS | | | |

| Port 4, Band n25, 1930 MHz - 1995 MHz , 20 M | /Hz Bandwidth, 2 | 256-QAM Modulat | tion, Mid Channel | 1962.5 MHz |
|--|------------------|-----------------|-------------------|------------|
| Frequency | Measured | Max Value | Limit | |
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 150 kHz - 20 MHz | 12.55 | -54.63 | -39 | Pass |





| 1 011 | Frequency | 2 - 1995 10172 | , 20 MHz Bandwidth, 2 Measured | Max Value | Lion, Mid Channe | 1902.3 10112 |
|----------------------|-------------------------------------|--|--|----------------------------|------------------|---|
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 20 MHz - 3 GH | lz | 2626.76 | -24.63 | -19 | Pass |
| 🗾 Keysight Spectr | um Analyzer - Element Materials Te | chnology | | | | |
| LXI RL | RF 50 Ω DC | | SENSE:INT | ALIGN OFF Avg Type: | RMS | 12:00:00 PM Jun 22, 2020 TRACE 1 2 3 4 5 6 |
| | | PNO: Fast IFGain:Low | Trig: Free Run #Atten: 22 dB | Avg Hold: | 100/100 | TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N |
| 10 dB/div | Ref Offset 41.6 dB Ref 50.60 dBm | | | | Mk | r1 2.626 8 GHz -24.634 dBm |
| | Kei Jo.oo ubiii | | | | | |
| | | | | | | |
| 40.6 | | | | <u>,</u> | | |
| 30.6 | | | | | | |
| | | | | | | |
| 20.6 | | | | | | |
| | | | | | | |
| 10.6 | | | | | | |
| 0.600 | | | | | | |
| | | | | | | |
| -9.40 | | | | <mark> </mark> | | |
| -19.4 | | | | | | -19.00 dBm |
| -15.4 | | | | | | |
| -29.4 | | an in the second se | والاجادة ومودة والقروط فالمتراز والمحمر والموافق فللمع | approximation and a subset | | |
| | | | | | | |
| -39.4 | | | | | | |
| Start 0.020 | | | | | | Stop 3.000 GHz |
| #Res BW 1. | 0 MHz | # | VBW 3.0 MHz* | | Sweep 3 | .733 ms (8001 pts) |
| MSG | | | | STATUS | | |
| Port | : 4, Band n25, 1930 MH | z - 1995 MHz | . 20 MHz Bandwidth, 2 | 56-QAM Modulat | tion. Mid Channe | 1962.5 MHz |
| | Frequency | | Measured | Max Value | Limit | |
| - | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 3 GHz - 10 GH | IZ | 3784.88 | -38.38 | -19 | Pass |
| 🗾 Keysight Spectr | um Analyzer - Element Materials Te | chnology | | | | |
| L <mark>XI</mark> RL | RF 50 Ω DC | | SENSE:INT | ALIGN OFF Avg Type: | Log-Pwr | 12:02:00 PM Jun 22, 2020 TRACE 1 2 3 4 5 6 |
| | | PNO: Fast | Trig: Free Run | Avg Hold: | | TYPE MWWWWW DET PNNNNN |

| | PNO: Fast | Trig: Free Run #Atten: 6 dB | Avg Type: Log-I Avg Hold: 50/50 | TYP | 12345 MWWWW PNNNN |
|--|-----------|--------------------------------|------------------------------------|------------------------|-------------------------|
| Ref Offset 26.9 dB 0 dB/div Ref 21.90 dBm | | | | Mkr1 3.784 8 -38.38 | 75 GH 34 dBr |
| 11.9 | | | | | |
| .90 | | | | | |
| .10 | | | | | |
| 8.1 | | | | | -19.00 d |
| 8.1 | | | | | |
| 8.1 | | | | | |
| | | | | | |
| 8.1 | | | | | |
| 8.1 | | | | | |
| tart 3.000 GHz | | | | Stop 10. | 000 GH |
| Res BW 2.0 MHz | #VBW | 6.0 MHz | | Sweep 11.73 ms (| |



| | Frequency | | Measured | Max Value | Limit | |
|---------------------------------|-----------------------------------|-----------------------|---|------------------------|---------------------------|---|
| | Range | | Freq (MHz) | (dBm) | < (dBm) | Result |
| | 10 GHz - 18 GH | Z | 15656 | -35.61 | -19 | Pass |
| | | | | | | |
| 📕 Keysight Spectrum | Analyzer - Element Materials Tech | nology | | | | - 6 - |
| XI RL RF | F 50 Ω DC | | SENSE:INT | ALIGN OFF | | 12:03:45 PM Jun 22, 2020 |
| | | PNO: Fast | Trig: Free Run | Avg Type: Avg Hold: | | TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN |
| | | IFGain:Low | #Atten: 6 dB | | | |
| Ref | f Offset 30.8 dB | | | | N | lkr1 15.656 GHz |
| 10 dB/div Re | f 25.80 dBm | | | | | -35.609 dBm |
| Log | | | | | | |
| | | | | | | |
| 15.8 | | | | | | |
| | | | | | | |
| 5.80 | | | | | | |
| | | | | | | |
| -4.20 | | | | | | |
| | | | | | | |
| -14.2 | | | | | | |
| | | | | | | -19.00 dBn |
| -24.2 | | | | | | |
| | | | | | .1 | |
| -34.2 | | | | | | |
| n and share to be | | | الماجعة وتعاول والمأكر وعدادك | | والمتحدث ويتقاده والمراجع | u se al la la chifte des des té la tite |
| -44.2 | | and the second second | a formation of the second s | | | . as here a second |
| | | | | | | |
| -54.2 | | | | | | |
| | | | | | | |
| -64.2 | | | | | | |
| | | | | | | |
| | | | | | | 84 |
| Start 10.000 G #Res BW 2.0 I | | #\/B) | W 6.0 MHz | | Swoon | Stop 18.000 GHz 13.33 ms (8001 pts |
| | WIN2 | #VD | W 0.0 WINZ | | Sweep | 13.33 IIIs (8001 pts |
| MSG | | | | STATUS | | |

| Frequency | Measured | Max Value | Limit | |
|-----------------|------------|-----------|---------|--------|
| Range | Freq (MHz) | (dBm) | < (dBm) | Result |
| 18 GHz - 22 GHz | 21820 | -26.18 | -19 | Pass |

| RL RF 50 Ω DC | A SIGNAL SCHOOL ST | SENSE:INT | <u>∧</u> ∧ | LIGN OFF | | 12:07:55 | 5 PM Jun 22, 202 |
|---|--------------------|--|--|--|--|---|-------------------|
| | PNO: Fast ++ | . Trig: Free #Atten: 6 d | | Avg Type: Log-Pwr Avg Hold: 50/50 | | TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN | |
| Ref Offset 42.6 dB 0 dB/div Ref 37.60 dBm | | | | | Μ | kr1 21.8 -26. | 20 0 GH 176 dB |
| ~3 | | | | | | | |
| 27.6 | | | | | | | |
| 7.6 | | | | | | | |
| .60 | | | | | | | |
| .40 | | | | | | | |
| .40 | | | | | | | |
| 2.4 | | | | | | | -19.00 d |
| 2.4 | | | | | | | 1 |
| | lasi déntekéné in | litti a ta a da | a da da se se da se da da se | اليميان والأول المحادث والأراد المحادث والمراد والمحادث | با میں اور میں اور | a di kia kana kata di shina kia Kana kata da mana kata da kata | |
| A sector of the | | | | | | | |
| 2.4 | | | | | | | |
| 2.4 | | | | | | | |
| tart 18.000 GHz | | | | | | Stor | 2 000 01 |
| Res BW 1.0 MHz | #\/P | W 3.0 MHz | | | Sween | 6.933 ms | 22.000 GH |