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FCC TEST REPORT

| Test Result: | PASS * |
|-------------------------|---|
| Date of Issue: | 2019/12/15 |
| Date of Test: | 2019/11/14 to 2019/12/15 |
| Date of Receipt: | 2019/11/14 |
| Test Method | KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10 (2013) |
| | 47 CFR Part 15, Subpart C |
| FCC ID: Standards: | 2ACCJH113 47 CFR FCC Part 2, Subpart J |
| Trade Mark: | |
| Model No.: | 5028A |
| EUT Description: | LTE/WCDMA/GSM mobile phone |
| Address of Manufacturer | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |
| Manufacturer: | TCL Communication Ltd |
| Address of Applicant | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |
| Applicant: | TCL Communication Ltd |
| Application No: | ZR/2019/B0004 |

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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1 Version

| Revision Record | | | | | | |
|-----------------|---------|------------|----------|----------|--|--|
| Version | Chapter | Date | Modifier | Remark | | |
| 00 | | 2019/12/15 | | Original | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|------------|
| Tested By | Mike Mu | 2019/12/15 |
| | (Mike Hu) /Project Engineer | Date |
| Checked By | David Chen | 2019/12/15 |
| | (David Chen) /Reviewer | Date |



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2 Test Summary

SG

| Test Item | Test Requirement | Test method | Test Result | Result |
|---|------------------|------------------|-------------|--------|
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10 2013 | Clause 4.2 | PASS |
| Conducted Output Power | 15.247 (b)(3) | ANSI C63.10 2013 | Clause 4.3 | PASS |
| DTS (6 dB) Bandwidth & 99% Occupied Bandwidth | 15.247 (a)(2) | ANSI C63.10 2013 | Clause 4.4 | PASS |
| Power Spectral Density | 15.247 (e) | ANSI C63.10 2013 | Clause 4.5 | PASS |
| Band-edge for RF Conducted Emissions | 15.247(d) | ANSI C63.10 2013 | Clause 4.6 | PASS |
| RF Conducted Spurious Emissions | 15.247(d) | ANSI C63.10 2013 | Clause 4.7 | PASS |
| Radiated Spurious Emissions | 15.205/15.209 | ANSI C63.10 2013 | Clause 4.8 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.205/15.209 | ANSI C63.10 2013 | Clause 4.9 | PASS |



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3 General Information

3.1 Client Information

| Applicant: | TCL Communication Ltd |
|--------------------------|---|
| Address of Applicant: | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |
| Manufacturer: | TCL Communication Ltd |
| Address of Manufacturer: | 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong |

3.2 Test Location

| Company: | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch |
|------------|--|
| Address: | No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China |
| Post code: | 518057 |
| Telephone: | +86 (0) 755 2601 2053 |
| Fax: | +86 (0) 755 2671 0594 |
| E-mail: | ee.shenzhen@sgs.com |

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. ĆNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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3.4 General Description of EUT

| | LITENNODNA/COM mobile phone | |
|----------------------|---|--|
| EUT Description: | LTE/WCDMA/GSM mobile phone | |
| Model No.: | 5028A | |
| Trade Mark: | alcatel | |
| Hardware Version: | PIO | |
| Software Version: | v4F58 | |
| Operation Frequency: | 2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39. | |
| Bluetooth Version: | Bluetooth V5.0 LE | |
| Modulation Type: | GFSK | |
| Number of Channel: | 40 | |
| Sample Type: | Portable Device, Module | |
| Antenna Type: | External, 🖾 Integrated | |
| Antenna Gain: | -2.4dBi | |
| Power Supply: | AC/DC Adapter; 🛛 Battery; 🗌 PoE:; 🗋 Other: | |

| Operation Frequency of each channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|----|---------|----|---------|
| Channel | Frequency | Channel | Frequency | | | | |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|----------------------------|-----------|
| The lowest channel (CH0) | 2402MHz |
| The middle channel (CH19) | 2440MHz |
| The highest channel (CH39) | 2480MHz |



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|---|----------------------|



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3.5 Test Environment

| Operating Environment | | | | |
|-----------------------|------------|--|--|--|
| Temperature: | 25.0 °C | | | |
| Humidity: | 50 % RH | | | |
| Atmospheric Pressure: | 101.32 KPa | | | |

3.6 Description of Support Units

The EUT has been tested independent unit.

4 Test results and Measurement Data

4.1 Antenna Requirement

| Standard requirement: | 47 CFR Part 15C Section 15.203 /247(c) |
|-----------------------|--|
| | |

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.4dBi.



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| Test Requirement: | 47 CFR Part 15C Section 15.207 | | | | | | |
|-----------------------|--|----------------------|-------------|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 | | | | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | | | | |
| | Erequency range (MHz) | | | | | | |
| | Frequency range (MHz) | Quasi-peak | Average | | | | |
| 1 : | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | |
| Limit: | 0.5-5 | 56 | 46 | | | | |
| | 5-30 | 60 | 50 | | | | |
| | * Decreases with the logarith | nm of the frequency. | | | | | |
| Test Procedure: | The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to | | | | | | |
| Test Setup: | Shielding Room | | st Receiver | | | | |

4.2 AC Power Line Conducted Emissions

S



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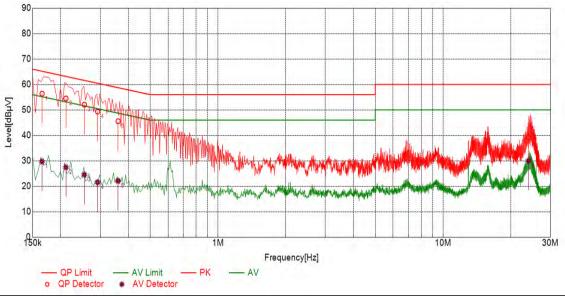
| Test Mode: | Transmitting with GFSK modulation. Charge +Transmitting mode. |
|-------------------|--|
| Instruments Used: | Refer to section 5.10 for details. |
| Test Results: | Pass |

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



| Final | Final Data List | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Туре |
| 1 | 0.1654 | 10.10 | 56.37 | 65.19 | 8.82 | 29.71 | 55.19 | 25.48 | L |
| 2 | 0.2111 | 10.10 | 54.49 | 63.16 | 8.67 | 27.43 | 53.16 | 25.73 | L |
| 3 | 0.2550 | 10.10 | 52.04 | 61.59 | 9.55 | 24.54 | 51.59 | 27.05 | L |
| 4 | 0.2920 | 10.10 | 49.34 | 60.47 | 11.13 | 21.51 | 50.47 | 28.96 | L |
| 5 | 0.3599 | 10.10 | 45.56 | 58.73 | 13.17 | 22.10 | 48.73 | 26.63 | L |
| 6 | 23.9887 | 10.11 | 39.14 | 60.00 | 20.86 | 30.02 | 50.00 | 19.98 | L |

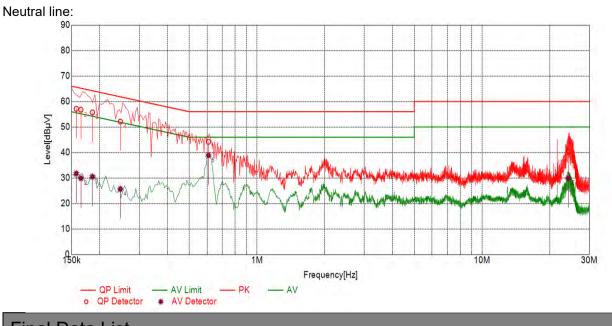


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| Final | Final Data List | | | | | | | | |
|-------|-----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Туре |
| 1 | 0.1575 | 10.10 | 57.14 | 65.60 | 8.46 | 31.75 | 55.60 | 23.85 | Ν |
| 2 | 0.1651 | 10.10 | 56.79 | 65.21 | 8.42 | 29.90 | 55.21 | 25.31 | Ν |
| 3 | 0.1857 | 10.10 | 55.75 | 64.22 | 8.47 | 30.51 | 54.22 | 23.71 | N |
| 4 | 0.2472 | 10.10 | 52.13 | 61.85 | 9.72 | 25.68 | 51.85 | 26.17 | N |
| 5 | 0.6086 | 10.10 | 44.19 | 56.00 | 11.81 | 38.89 | 46.00 | 7.11 | N |
| 6 | 24.1378 | 10.11 | 40.34 | 60.00 | 19.66 | 29.93 | 50.00 | 20.07 | N |

Remarks:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

| 4.3.1 | lest Results | |
|-----------|----------------|----------------|
| Test Mode | TX Freq. [MHz] | Duty cycle [%] |
| BLE(1MHz) | CH0 | 60.87 |
| BLE(2MHz) | CH0 | 35.58 |

4.3.1 Test Plots

4.3.1.1 BLE(1MHz)

| Agilent Spectr | um Analyzer - Swept SA | | | | | | | | |
|----------------|----------------------------------|---------------------------|------------------------|--------|------------------|---------------|--|---------------|---------------|
| LXIL | RF 50 Ω AC | | SENS | SE:INT | | ALIGN AUTO | | MDec 13, 2019 | Marker |
| Marker 3 | 1.32000 ms | | , Trig: Free | Dun | Avg Ty Avg Ho | pe:Log-Pwr | TRA | | |
| | | PNO: Fast 🔸 IFGain:Low | #Atten: 40 | | Avgino | IG. 171 | D | | Select Marker |
| | | | | | | | Mkr3-1 | .320 ms | 3 |
| 10 dB/div | Ref Offset 1 dB Ref 20.00 dBm | | | | | | -4.0 | 16 dBm | Ū |
| | Ker 20.00 ubin | | | | | | | | |
| 10.0 | | <u>^2</u> | • | | | | | | Name |
| 0.00 | | Q^ | 3 | | - | | | | Norma |
| -10.0 | | | | | | | | | |
| -20.0 | | | | | | | | | |
| | | | | | | | | | Delta |
| -30.0 | | | | | | | | | Denta |
| -40.0 | L. LINI, D. AL | 51.48 | Nov D | | | | wM | | |
| -50.0 | <u>hyperson</u> | - Maki | | Y4 | MMA2N | | and a state of the | | |
| -60.0 | | | | | | | | | Fixed▷ |
| -70.0 | | | | | | | | | |
| | | | | | | | | | |
| | 402000000 GHz | | | | | | 5 | ipan 0 Hz | |
| Res BW 1 | I.0 MHz | #VBW | 1.0 MHz | | | Sweep 3 | .000 ms (| 1001 pts) | Off |
| MKR MODE TF | RC SCL X | | Y | | CTION F | UNCTION WIDTH | FUNCTI | DN VALUE | |
| 1 N 1 2 N 1 | t | 699.0 µs 1.077 ms | -2.741 dB -3.465 dB | m | | | | | |
| 2 N 1 | | 1.320 ms | -3.405 dB -4.016 dB | m | | | | | Burnetters |
| 4 5 | | | | | | | | | Properties ▶ |
| 6 | | | | | | | | | |
| 7 8 | | | | | | | | | |
| 9 | | | | | | | | | More |
| 10 | | | | | | | | | 1 of 2 |
| 11 | | | | | | | | ~ | |
| MSG | | | | | | STATUS | 1 | | |
| mod | | | | | | STATUS | ` | | |

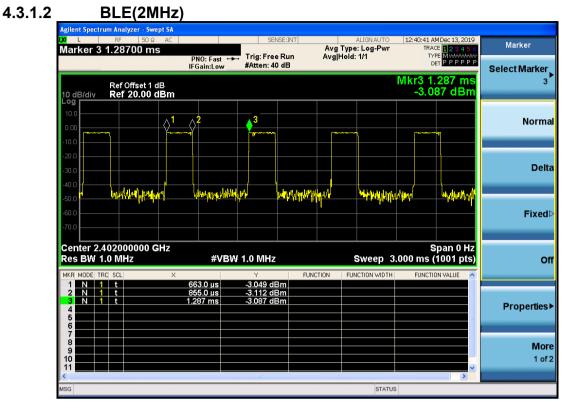


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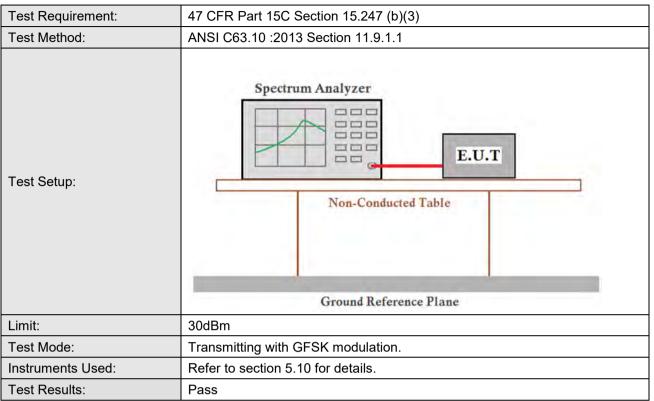




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4.4 Conducted Output Power

4.4.1 Test Results Measurement Data of Average Power

| induouronnon Duta or / norago : onor | | | | | | | |
|--------------------------------------|----------------------------|---------------------|--|--|--|--|--|
| GFSK 1M mode | | | | | | | |
| Test channel | Average Output Power (dBm) | Result | | | | | |
| Lowest | -3.81 | Report purpose only | | | | | |
| Middle | -3.22 | Report purpose only | | | | | |
| Highest | -3.33 | Report purpose only | | | | | |

| GFSK 2M mode | | | | | |
|--------------|----------------------------|---------------------|--|--|--|
| Test channel | Average Output Power (dBm) | Result | | | |
| Lowest | -2.63 | Report purpose only | | | |
| Middle | -1.42 | Report purpose only | | | |
| Highest | -2.34 | Report purpose only | | | |



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Measurement Data of Peak Power:

| GFSK 1M mode | | | | | | |
|--------------|-------------------------|-------------|--------|--|--|--|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | |
| Lowest | 3.126 | 30.00 | Pass | | | |
| Middle | 3.938 | 30.00 | Pass | | | |
| Highest | 3.781 | 30.00 | Pass | | | |

| GFSK 2M mode | | | | | | | |
|--------------|-------------------------|-------------|--------|--|--|--|--|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| Lowest | 2.266 | 30.00 | Pass | | | | |
| Middle | 1.953 | 30.00 | Pass | | | | |
| Highest | 2.721 | 30.00 | Pass | | | | |

4.4.2 Test plots:

4.4.2.1 GFSK 1M_Lowest Channel

| Agilent Spectrum Analyzer - | The duty cycle factor 0 o | IB added. | | | | |
|--------------------------------------|---|------------------------|------------|------------------------------------|--|------------------------------------|
| RL RF 50 Center Freq 2.402 | Ο Ω AC 2000000 GHz PNO: Wid IFGain:Lov | | Avg Ty | ALIGNAUTO rpe: RMS Id: 10/10 | 12:09:32 AM Dec 13, 20: TRACE 1 2 3 4 5 TYPE M WAAAAA DET P P P P F | Frequency |
| Ref Offset 10 dB/div Ref 30.0 | :1 dB | | | Mkr1 Band Po | 2.402 000 GH wer 3.126 dBr | Z Auto Tune n |
| 20.0 10.0 | | | | | * | Center Fred 2.402000000 GHz |
| -10.0 | | 1 1 | www. | | | Start Free 2.400000000 GH: |
| -40.0 -50.0 -60.0 | mar | | | Martin Contraction | Law Martin Dog and Martin | Stop Free 2.404000000 GH |
| Start 2.400000 GHz FRes BW 20 kHz | #\ × | /BW 62 kHz Y | | #Sweep | rener mere | |
| 1 N 1 f 2 3 4 5 6 9 | 2.402 000 GHz | -10.185 dBm | Band Power | 1.040 MHz | 3.126 dB | Freq Offse 0 H |
| 7 8 9 10 11 11 | | | | | > | > |
| SG | | | | STATUS | • | |



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4.4.2.2 GFSK 1M_Middle Channel

4.4.2.3

GFSK 1M_Highest Channel



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4.4.2.5

GFSK 2M_Middle Channel



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4.4.2.6 GFSK 2M_Highest Channel

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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2) | | | | | |
|-------------------|---|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 Section 11.8 Option 2 | | | | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | |
| Limit: | ≥ 500 kHz | | | | | |
| Test Mode: | Transmitting with GFSK modulation. | | | | | |
| Instruments Used: | Refer to section 5.10 for details. | | | | | |
| Test Results: | Pass | | | | | |

4.5.1 Test Results

| T.V. I | 10011000010 | - | | | |
|---------------|-----------------|---------------------------------|---------------------------------|----------------|--------|
| Mode | Test Channel | 99% Occupied Bandwidth (MHz) | 6dB Emission Bandwidth (MHz) | Limit (kHz) | Result |
| | Lowest | 1.039 | 0.674 | ≥500 | Pass |
| GFSK 1M | Middle | 1.041 | 0.687 | ≥500 | Pass |
| | Highest | 1.041 | 0.687 | ≥500 | Pass |

| Mode | Test Channel | 99% Occupied Bandwidth (MHz) | 6dB Emission Bandwidth (MHz) | Limit (kHz) | Result |
|---------|-----------------|---------------------------------|---------------------------------|----------------|--------|
| | Lowest | 2.062 | 1.166 | ≥500 | Pass |
| GFSK 2M | Middle | 2.060 | 1.156 | ≥500 | Pass |
| | Highest | 2.060 | 1.156 | ≥500 | Pass |



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4.5.2 Test plots

4.5.2.1 GFSK 1M Lowest Channel





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Center Freq: 2.440000000 GHz

ALIGN AUTO

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Frequency

12:13:04 AMDec 13, 2019 Radio Std: None

Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div **Center Freq** 2 44000000 GHz AMV . Center 2.44 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Auto Man Total Power **Occupied Bandwidth** 4.13 dBm 1.0405 MHz **Freq Offset** 0 Hz 12.319 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 1.258 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW 12:12:56 AMDec 13, 2019 Radio Std: None RL Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol ALIGN AUTO Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.440000000 GHz Center 2.44 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Total Power 4.59 dBm **Occupied Bandwidth** 1.0572 MHz **Freq Offset** 5.579 kHz 0 Hz Transmit Freg Error **OBW Power** 99.00 % x dB Bandwidth 687.1 kHz x dB -6.00 dB



Center Freq 2.440000000 GHz

Occupied BV

eilent Spectrum Ana



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GFSK 1M Highest Channel

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eilent Spectrum An Occupied B 12:16:27 AMDec 13, 2019 Radio Std: None ALIGN AUTO Frequency Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div **Center Freq** 2 48000000 GHz MM M Center 2.48 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Auto Man Total Power **Occupied Bandwidth** 3.97 dBm 1.0405 MHz **Freq Offset** 0 Hz 12.053 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 1.256 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW 12:16:19 AMDec 13, 2019 Radio Std: None RL Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol ALIGN AUTO Frequency Center Freq 2.480000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.480000000 GHz www. www. Center 2.48 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Man Total Power 4.30 dBm **Occupied Bandwidth** 1.0580 MHz **Freq Offset** 5.263 kHz 0 Hz Transmit Freg Error **OBW Power** 99.00 % x dB Bandwidth 687.1 kHz x dB -6.00 dB STATUS



4.5.2.3

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Frequency

Center Freq

Aglent Spectrum Analyzer - Occupied BW Conter Freq 2.402000000 GHz #IFGain:Low Ref Offset 1 dB 10 dB/div Ref 25.00 dBm Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Std: None Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.40 dB Conter Freq 2.40 dB

GFSK 2M Lowest Channel







4.5.2.4

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GFSK 2M Middle Channel

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eilent Spectrum An Occupied B 12:24:43 AMDec 13, 2019 Radio Std: None ALIGN AUTO Frequency Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div **Center Freq** 2 44000000 GHz $\sim \sim$ Center 2.44 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Auto Man Total Power **Occupied Bandwidth** 3.48 dBm 2.0598 MHz **Freq Offset** 0 Hz 21.200 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 2.499 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW 12:24:35 AMDec 13, 2019 Radio Std: None RL Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol ALIGN AUTO Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.440000000 GHz Center 2.44 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Man Total Power 4.87 dBm **Occupied Bandwidth** 2.0791 MHz **Freq Offset** 0 Hz Transmit Freg Error 11.716 kHz **OBW Power** 99.00 % x dB Bandwidth 1.156 MHz x dB -6.00 dB STATUS



4.5.2.5

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GFSK 2M Highest Channel

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eilent Spectru 12:24:43 AMDec 13, 2019 Radio Std: None ALIGN AUTO Frequency Center Freq 2.440000000 GHz Center Freq: 2.480000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB #IFGain:Low Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div Center Fred 2 /8000000 GHz ww \sim Center 2.48 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Man Auto Total Power **Occupied Bandwidth** 3.48 dBm 2.0598 MHz Freq Offset 0 Hz 21.200 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 2.499 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW RL 12:24:35 AMDec 13, 2019 Radio Std: None ALIGN AUTO Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og Center Freq 2 48000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 4 MHz CF Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Man Total Power 4.87 dBm **Occupied Bandwidth** 2.0791 MHz Freq Offset 0 Hz Transmit Freg Error 11.716 kHz **OBW Power** 99.00 % x dB Bandwidth 1.156 MHz x dB -6.00 dB STATUS



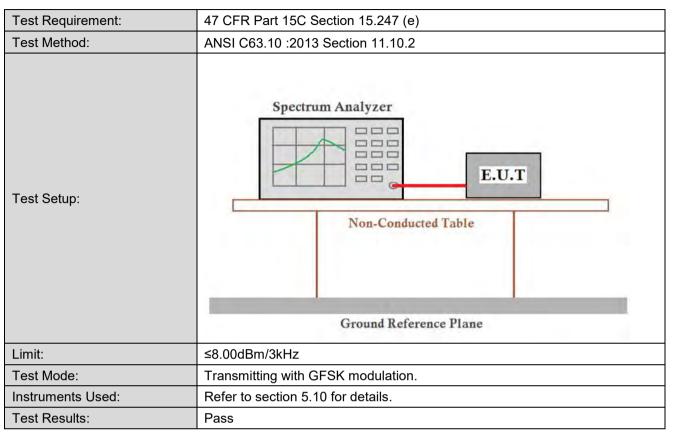
4.5.2.6

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4.6 **Power Spectral Density**



4.6.1 Test Results

| Mode | Test Channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---------|--------------|-----------------------------------|------------------|--------|
| | Lowest | -17.537 | ≤8.00 | Pass |
| GFSK 1M | Middle | -16.619 | ≤8.00 | Pass |
| | Highest | -16.720 | ≤8.00 | Pass |

| Mode | Test Channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---------|--------------|-----------------------------------|------------------|--------|
| | Lowest | -20.15 | ≤8.00 | Pass |
| GFSK 2M | Middle | -19.697 | ≤8.00 | Pass |
| | Highest | -19.633 | ≤8.00 | Pass |



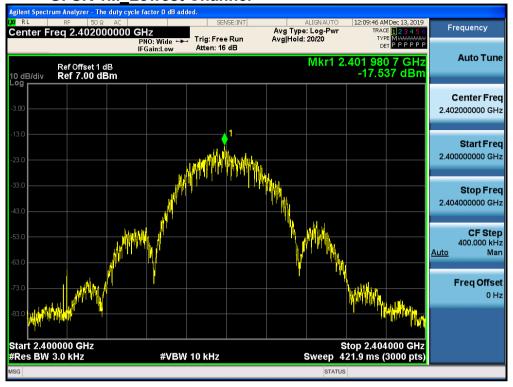
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- 4.6.2 Test plots
- 4.6.2.1 GFSK 1M Lowest Channel



4.6.2.2 GFS

GFSK 1M Middle Channel





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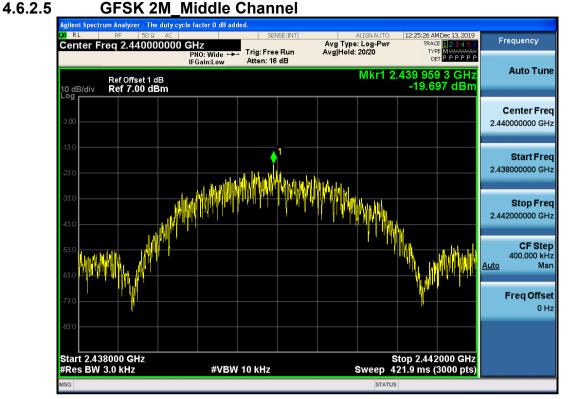




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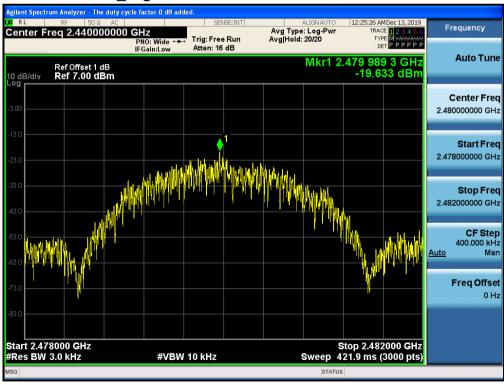
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GFSK 2M Highest Channel





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4.7 Band-edge for RF Conducted Emissions

SG

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|-------------------|---|
| Test Method: | ANSI C63.10: 2013 Section 11.13 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Mode: | Transmitting with GFSK modulation. |
| Instruments Used: | Refer to section 5.10 for details. |
| Test Results: | Pass |



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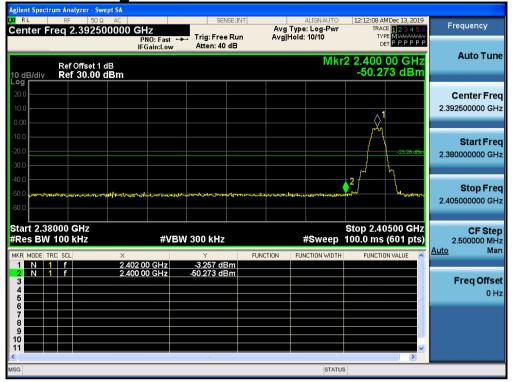
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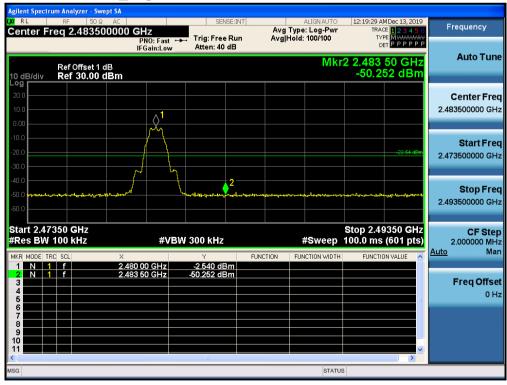
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4.7.1 Test plots

4.7.1.1 GFSK 1M Lowest Channel



4.7.1.2 GFSK 1M_Highest Channel



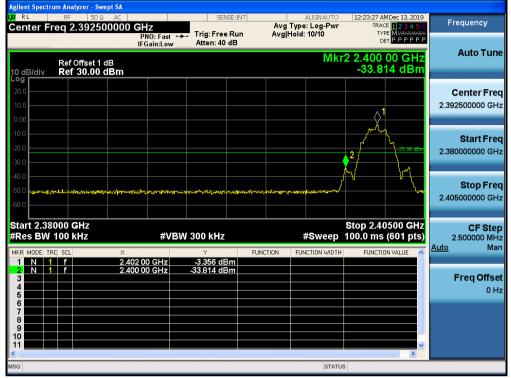
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4.7.1.3 GFSK 2M_Lowest Channel



4.7.1.4

GFSK 2M_Highest Channel



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4.8 Spurious RF Conducted Emissions

SG

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
|-------------------|---|
| Test Method: | ANSI C63.10: 2013 Section 11.11 |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Mode: | Transmitting with GFSK modulation. |
| Instruments Used: | Refer to section 5.10 for details. |
| Test Results: | Pass |



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Test plots: 4.8.1

4.8.1.1

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| | | | | 001-11- | | | . | | 0.00 MHz | |
| Start 150 Res BW | | | #VBW | 30 kHz | | | Sweep 2 | 85.4 ms (| 3001 pts) | |
| Res BW | 10 kHz | | #VBW | 30 kHz | | | | | 3001 pts) | |
| Res BW sg gilent Specto 7 RL | 10 kHz rum Analyzer - Swe RF 50 Ω | AC | | | SE:INT | | <mark>STATUS</mark> ALIGN AUTO | 85.4 ms (| 3001 pts) upled MDec 13, 2019 | Frequency |
| Res BW sg gilent Specto RL | 10 kHz rum Analyzer - Swa | AC 00000 GH P | †z N0: Fast ⊂ |) Trig: Free | Run | | STATUS | 85.4 ms (DC Cou 12:10:58 AP TRAC TYP | 3001 pts) upled MDec 13, 2019 E 1 2 3 4 5 6 | Frequency |
| Res BW sg gilent Specto RL | 10 kHz rum Analyzer - Swe RF 50 Ω | AC 00000 GH P | | SEN | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AF TRAC TYF DF | 3001 pts) upled MDec 13, 2019 E 1 2 3 4 5 6 M WWWW F P P P P P P | Frequency |
| Res BW sg gilent Spectr RL Center F | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) upled MDec 13, 2019 E 1 2 3 4 5 6 | |
| Res BW gilent Spectr RL Center F | 10 kHz rum Analyzer - Swo RF 50 ຊ req 1.16500 | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tu |
| Res BW sg gilent Spectr RL center F 0 dB/div | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tur Center Fre |
| Res BW sg gilent Spectr RL center F 0 dB/div | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tur Center Fre |
| Res BW gilent Spect RL Center F 0 dB/div | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tur Center Fra 1.165000000 Gi |
| Res BW sa gilent Spectr RL Center F 0 dB/div 0 dB/div | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tur Center Fra 1.16500000 Gi Start Fra |
| Res BW sa gilent Spectr RL Center F 0 dB/div 0 dB/div | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tur Center Fra 1.16500000 Gi Start Fra |
| Res BW glient Spectr RL Center F 10.0 10.0 10.0 | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled MDec 13, 2019 # 1 2 3 4 5 6 M W W W P P P P P P 39 GHz | Auto Tur Center Fro 1.16500000 GI Start Fro 30.000000 Mi |
| Res BW s gilent Spect RL RL Center F | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fro 1.16500000 Gl Start Fro 30.000000 Ml Stop Fro |
| Res BW sg gilent Specto 7 RL | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fro 1.16500000 Gl Start Fro 30.000000 Ml Stop Fro |
| Res BW glient Spectr glient Spectr RL C at B/div | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC 00000 GH P IF | †z N0: Fast ⊂ |) Trig: Free | Run | Avg Type | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 AT TRAC TYP 1 2.223 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl |
| Res BW gilent Spectr RL RL Code/div 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | -Iz N0: Fast ⊂ Gain:Low |) Trig: Free | Run | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >50/50 MIKr | 85.4 ms (DC Cou 12:10:58 Af TRAC TYP 1 2.223 -46.7 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Ste 227.000000 Ml |
| Res BW gilent Spectr RL RL Code/div 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 10 kHz rum Analyzer - Swa RF 50 Ω req 1.16500 Ref Offset 1 d | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | −z N0: Fast Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | STATUS ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:10:58 Af TRAC TYP 1 2.223 -46.7 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.00000 Ml |
| Res BW a gilent Spectr RL RL Conter F C | 10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | −z N0: Fast Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >50/50 MIKr | 85.4 ms (DC Cou 12:10:58 Af TRAC TYP 1 2.223 -46.7 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fr 1.165000000 Gl Start Fr 30.000000 Ml Stop Fr 2.30000000 Gl CF Ste 227.000000 Ml Auto M |
| Res BW gilent Spect RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | −z N0: Fast Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >50/50 MIKr | 85.4 ms (DC Cou 12:10:58 Af TRAC TYP 1 2.223 -46.7 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Sta 227.000000 Ml Auto Mi |
| Res BW gilent Spectr gilent Spectr RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | −z N0: Fast Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >50/50 MIKr | 85.4 ms (DC Cou 12:10:58 Af TRAC TYP 1 2.223 -46.7 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Sta 227.000000 Ml Auto Mi |
| Res BW gilent Spectr RL RL Center F 2000 10.0 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 | 10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | -Iz N0: Fast ⊂ Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >50/50 MIKr | 85.4 ms (DC Cou 12:10:58 Af TRAC TYP 12:223 -46.7 | 3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Sta 227.000000 Ml Auto Mi |
| Res BW gilent Spectric RL RL Center F 2000 2 | 10 kHz | AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB | Iz NO: Fast Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | | ALIGNAUTO :: Log-Pwr >50/50 MIKr | 85.4 ms (DC Cou 12:10:58 Af TRAC TYA TYA TRAC TYA TYA TYA TYA TYA TYA TYA TYA | 3001 pts) apled MDec 13, 2019 E 23 4 5 6 Momental 23 4 5 6 Moment | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Ste 227.000000 Ml |

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| L <mark>XI</mark> RL | | | | | | | | | |
|---|---------------------------------------|----------------------------|---|-----------------|---|------------------|---|---|--|
| | rum Analyzer - Swept SA RF 50 Ω AC | | SEN | SE:INT | | ALIGN AUTO | 12:11:10 AF | 4Dec 13, 2019 | _ |
| Center F | req 2.350000000 | GHz | | | Avg Type Avg Hold: | : Log-Pwr | TRAC | E 123456 E M W M M M M M T P P P P P P | Frequency |
| | | PNO: Fast 🕞 IFGain:Low | #Atten: 40 | | inginoia. | 2001200 | DE | ТРРРРР | |
| | Ref Offset 1 dB | | | | | Mk | r1 2.39 | 9 6 GHz | Auto Tun |
| 10 dB/div Log | Ref 20.00 dBm | | | | | | -48.0 | 87 dBm | |
| 3 | | | | | | | | | Center Free |
| 10.0 | | | | | | | | | 2.350000000 GH |
| | | | | | | | | | |
| 0.00 | | | | | | | | | Start Free |
| | | | | | | | | | 2.300000000 GH |
| -10.0 | | | | | | | | | |
| -20.0 | | | | | | | | -23.23 dBm | Oton Ero |
| | | | | | | | | -23.23 dBm | Stop Fre 2.400000000 GH |
| -30.0 | | | | | | | | | 2.40000000000 |
| | | | | | | | | | CF Ste |
| -40.0 | | | | | | | | 1 | 10.000000 MH |
| -50.0 | | lu-phulpplica.ith-privea.t | | | A | aluti i secondo | Mitalaana | h and and | <u>Auto</u> Ma |
| -50.0 1444/14 | aytune alaan tahala ahaan ahaan ahaa | Confederation (Strates) | NUMPHTPHUN | latani | witylerwyd/ylynnwy | (VINILANILA MA)) | an Millian Mari | htten the particular | |
| -60.0 | | | | | | | | | Freq Offse |
| | | | | | | | | | 0 H |
| -70.0 | | | | | | | | | |
| | | | | | | | | | |
| Start 2.30 | | | | | | | Stop 2.40 | | |
| #Res BW | 100 KHZ | #VBW | / 300 kHz | | | Sweep 9 | ` | 1001 pts) | |
| MSG | | | | | | STATUS | | | |
| | rum Analyzer - Swept SA RF 50 Ω AC | | CEN | ISE:INT | | ALIGN AUTO | 12:11:20 AI | (Dec 12, 2010 | |
| Center F | req 2.491750000 | GHz | | | | : Log-Pwr | TRAC | E 1 2 3 4 5 6 E M WARMAN | Frequency |
| | | PNO: Fast 😱 IFGain:Low | #Atten: 40 | | Avginola. | ~200/200 | DE | TPPPPP | |
| | | | | | | | | | |
| 10 dB/div Log | Ref Offset 1 dB | | | | | Mkr1 2 | | 7 5 GHz | Auto Tun |
| | Ref 20.00 dBm | | | | | Mkr1 2 | | | Auto Tun |
| | | | | | | Mkr1 2 | | 7 5 GHz | |
| 10.0 | | | | | | Mkr1 2 | | 7 5 GHz | Center Fre |
| 10.0 | | | | | | Mkr1 2 | | 7 5 GHz | Center Fre |
| | | | | | | Mkr1 2 | | 7 5 GHz | Center Fre 2.491750000 GH |
| 0.00 | | | | | | Mkr1 2 | | 7 5 GHz | Center Fre 2.491750000 GH Start Fre |
| 10.0 | | | | | | Mkr1 2 | | 7 5 GHz | Center Fre 2.491750000 GH Start Fre |
| 0.00 | | | | | | Mkr1 2 | | 7 5 GHz | Center Fre 2.491750000 GH Start Fre 2.483500000 GH |
| 10.0 0.00 -10.0 -20.0 | | | | | | Mkr1 2 | | 7 5 GHz 32 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre |
| 10.0 0.00 -10.0 | | | | | | Mkr1 2 | | 7 5 GHz 32 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre |
| 10.0 0.00 -10.0 -20.0 -30.0 | | | | | | Mkr1 2 | | 7 5 GHz 32 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH |
| 10.0 0.00 -10.0 -20.0 | | | | | | Mkr1 2 | | 7 5 GHz 32 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH |
| 10.0 0.00 -10.0 -20.0 -30.0 -40.0 | Ref 20.00 dBm | - 1 Ample 24 | 1 1 1 Pulled A | | (f)-21 | | -49.0 | 7 5 GHz 32 dBm -23 23 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH |
| 10.0 0.00 -10.0 -20.0 -30.0 -40.0 | | | 1 n.tumt | ij vo pro filor | p-wywyyw-q | | -49.0 | 7 5 GHz 32 dBm -23 23 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma |
| 10.0 0.00 -10.0 -20.0 -30.0 -40.0 | Ref 20.00 dBm | | 1 millionni | ijontwe Uber | polyogramma | | -49.0 | 7 5 GHz 32 dBm -23 23 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma |
| 10.0 | Ref 20.00 dBm | | 1 millionni | ijortur Nibur | in the second | | -49.0 | 7 5 GHz 32 dBm -23 23 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma |
| 10.0 | Ref 20.00 dBm | | 1 | iyanin Nura | S. Walnord | | -49.0 | 7 5 GHz 32 dBm -23 23 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma |
| 10.0 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -60.0 -60.0 -70.0 -70.0 | Ref 20.00 dBm | | 1 กไซ์เกมา | iyrnw∫l/u~* | p.Workpower | wylite | -49.0 | 5 GHz 32 dBm -23 23 dBm | Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma |
| 10.0 | Ref 20.00 dBm | | n Jawad | jorno filor | in llivity over of | wyldush | -49.0 | 7 5 GHz 32 dBm -23 23 dBm هورليمي المراجع | Center Free 2.491750000 GH Start Free 2.483500000 GH Stop Free 2.500000000 GH CF Steg 1.650000 MH |
| 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -60.0 -60.0 -70.0 | Ref 20.00 dBm | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | yern flur | p.M.Aboved | wyldush | -49.0 სერ_ქარი itop 2.500 1.600 ms | 7 5 GHz 32 dBm -23 23 dBm هورليمي المراجع | Center Free 2.491750000 GH Start Free 2.483500000 GH Stop Free 2.500000000 GH CF Step 1.650000 MH Auto Mar |

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| Agilent Spectrum Analyzer - Swept SA | | | | | |
|--|---|----------------|---|--|--|
| ₩ RL RF 50Ω AC Center Freg 14.500000000 | | | ALIGNAUTO : Log-Pwr | 12:11:53 AMDec 13, 2019 | Frequency |
| | PNO: Fast Trig: Free IFGain:Low #Atten: 40 | ≘Run Avg Hold: | | TRACE 123456 TYPE MWWWWW DET PPPPP | |
| Ref Offset 1 dB 10 dB/div Ref 20.00 dBm | | | Mk | r1 26.473 GHz -38.615 dBm | Auto Tune |
| 10.0 | | | | | Center Freq 14.500000000 GHz |
| -10.0 | | | | | Start Freq 2.500000000 GHz |
| -20.0 | | | | -23.23 dBm | Stop Freq 26.500000000 GHz |
| -40.0 | | | and the second secon | | CF Step 2.400000000 GHz <u>Auto</u> Man |
| -60.0 | | | | | Freq Offset 0 Hz |
| -70.0 | | | | | |
| Start 2.50 GHz #Res BW 100 kHz | #VBW 300 kHz | | Sween 2 | Stop 26.50 GHz 2.294 s (8001 pts) | |
| MSG | | | STATUS | inter e (ever pro) | |

4.8.1.2 GFSK 1M_Middle Channel



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| | RF 50 Ω 🥂 DC | | SENSE:INT | ALIGNAUTO | 12:14:03 AMDec 13, 2019 | Frequency |
|--|--|-------------------|--|--|---|--|
| enter Fi | req 79.500 kHz | PNO: Wide 😱 | Trig: Free Run | Avg Type: Log-Pwr Avg Hold:>50/50 | TRACE 123456 TYPE MWWWW DET P P P P P | Frequency |
| 0 dB/div | Ref Offset 1 dB Ref 0.00 dBm | IFGain:Low | #Atten: 26 dB | M | lkr1 11.350 kHz -52.978 dBm | Auto Tur |
| | Rel 0.00 uBill | | | | | |
| 10.0 | | | | | | Center Fre 79.500 kH |
| | | | | | | 79.500 Kr |
| 20.0 | | | | | | Start Fre |
| 30.0 | | | | | | 9.000 ki |
| | | | | | | |
| 10.0 | | | | | -42.43 dBm | Stop Fre |
| io.o <mark> 1</mark> | | | | | | 150.000 ki |
| -ringh | ~ A | | | | | CF Ste |
| 50.0 | - a the Way what | <i>Λ</i> . | | | | 14.100 ki |
| 70.0 | ግግ የለም | 11 monthalan | - Alever and a second | how when the second of the second sec | | <u>Auto</u> Mi |
| :0.0 | | | սու չի չուներին հերություն | ᡃ᠋᠆ᢣ᠉᠂ᠬᠬ᠕᠕᠕ᡁᡀ᠉᠕ᡢ᠕ᡁ | how we have all and | Freq Offs |
| 3U.U | | | | | | . 01 |
| 90.0 | | | | | | |
| | | | | | | |
| tart 9.00 | | | | | Stop 150.00 kHz | |
| | 10647 | #\/D\M | 306442 | Sween | 131 9 mc (601 ntc) | |
| | 1.0 kHz | #VBW | 3.0 kHz | | 134.8 ms (601 pts) | |
| SG | | #VBW | 3.0 kHz | | 134.8 ms (601 pts) | |
| sg gilent Spectr / RL | um Analyzer - Swept SA RF 50 Ω ▲ DC | | 3.0 kHz | ALIGN AUTO | DC Coupled | Frequency |
| sG gilent Spectr | um Analyzer - Swept SA | | | STATUS | DC Coupled | Frequency |
| sG gilent Spectr RL | um Analyzer - Swept SA RF 50 ♀♪DC req 15.075000 MI | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | |
| g <mark>ilent Spectr</mark> RL Center Fi OdB/div | um Analyzer - Swept SA RF 50 Ω ▲ DC | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | |
| g <mark>ilent Spectr</mark> RL enter Fi 0 dB/div | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tui |
| g <mark>ilent Spectr</mark> RL enter Fi 0 dB/div | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fre |
| g <mark>ilent Spectr</mark> RL Center Fi | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fra 15.075000 Mi |
| sc silent Spectr RL enter Fr od B/div og | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fra 15.075000 Mi Start Fra |
| sc silent Spectr RL enter Fr od B/div og | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fra 15.075000 Mi Start Fra |
| aa gilent Spectr RL eenter Fr o dB/div o g 10.0 0.00 | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki |
| a pilent Spectr RL enter Fr 0 dB/div 9 10 0 10 0 10 0 10 0 | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro |
| sa gilent Spectr RL enter Fr og og og og og og og og og og | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi |
| C dB/div C dB/d | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi |
| Contraction of the sector of t | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki Stop Fra 30.000000 Mi CF Ste 2.985000 Mi |
| sa RL RL CodB/div 0 dB/div 0 dB | um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi 2.985000 Mi Auto Mi |
| | um Analyzer - Swept SA RF SO Q ALDC req 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 | ■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP Mkr1 150 kHz -41.282 dBm -32.43 dBm | Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki Stop Fra 30.000000 Mi 2.985000 Mi Auto Mi Freq Offs |
| 3G RL RL< | um Analyzer - Swept SA RF SO Q ALDC req 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGN AUTO AVg Type: Log-Pwr | ■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP Mkr1 150 kHz -41.282 dBm -32.43 dBm | Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki Stop Fra 30.000000 Mi 2.985000 Mi Auto Mi Freq Offs |
| 3G RL RL< | um Analyzer - Swept SA RF SO Q ALDC req 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 | ■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP MIKr1 150 KHZ -41.282 dBm -32:43 dBm | Auto Tur Center Fre 15.075000 MH Start Fre 150.000 kH Stop Fre 30.000000 MH 2.985000 MH Auto MH Freq Offs |
| 3G RL RL< | Im Analyzer - Swept SA RF SO ALOC req 15.075000 Mi Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 | ■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP MIKr1 150 KHZ -41.282 dBm -32:43 dBm | Auto Tur Center Fre 15.075000 M Start Fre 150.000 k Stop Fre 30.000000 M CF Ste 2.985000 M |

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sgs.china@sgs.com



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| eilent Spectr | um Analyzer - Swept SA | | | | | |
|--|--|----------------------------------|---|---|---|--|
| KI RL | RF 50 Ω AC | | SENSE:INT | ALIGNAUTO | 12:14:46 AMDec 13, 2019 | Frequency |
| Center Fi | req 1.16500000 | D GHZ PNO: Fast IFGain:Low | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold:>50/50 | TRACE 1 2 3 4 5 6 TYPE M WATMAW DET P P P P P | |
| | D-COC-+4-ID | IFGall.LOW | intern to ab | Mkr | 1 2.259 71 GHz | Auto Tun |
| 0 dB/div | Ref Offset 1 dB Ref 20.00 dBm | | | | -46.436 dBm | |
| ^{.og} | | | | | | Center Fre |
| 10.0 | | | | | | 1.165000000 GH |
| | | | | | | |
| 0.00 | | | | | | Start Fre |
| 10.0 | | | | | | 30.000000 MH |
| 10.0 | | | | | | |
| 20.0 | | | | | -22.43 dBm | Stop Fre |
| | | | | | | 2.30000000 GH |
| 30.0 | | | | | | |
| 40.0 | | | | | | CF Ste |
| | | | | | | 227.000000 MH Auto Ma |
| 50.0 Million Leg | | | and the second secon | n particular de la constructiva de la deserva de la constructiva de la constructiva de la constructiva de la co | ala na shari a lara kaba a shara da | |
| 60.0 | | | | | | Freq Offse |
| 00.0 | | | | | | 0 H |
| 70.0 | | | | | | |
| | | | | | | |
| start 30 N | al I – | | | | Stop 2.300 GHz | |
| | | | | | | |
| #Res BW | | #VBW | 300 kHz | | 217.1 ms (8001 pts) | |
| | | #VBW | 300 kHz | Sweep 2 | | |
| #Res BW | 100 KHZ rum Analyzer - Swept SA | | | STATUS | 3 | |
| Res BW sg gilent Spectr g RL | 100 kHz | 0 GHz | SENSE:INT | STATU: ALIGNAUTO Avg Type: Log-Pwr | 12:14:58 AMDec 13.2019 | Frequency |
| Res BW sg gilent Spectr g RL | 100 kHz um Analyzer - Swept SA RF 50 Q AC | | | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 3 12:14:58 AMDec 13, 2019 TRACE 1, 2 3 4 5 6 TYPE MWWWWW DET P P P P P | |
| Res BW sg gilent Spectr RL Center F | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | |
| Res BW sg gilent Spectr / RL Center Fi Center Fi 0 dB/div | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 3 12:14:58 AMDec 13, 2019 TRACE 1, 2 3 4 5 6 TYPE MWWWWW DET P P P P P | |
| Res BW sg gilent Spectr RL Center Fr Center Fr 0 dB/div | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | Auto Tur Center Fre |
| Res BW sg gilent Spectr RL Center Fr Center Fr 0 dB/div | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | Auto Tur Center Fre |
| Res BW sg glent Spectr RL Center Fr | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | Auto Tur Center Fre |
| Res BW sg glent Spectr RL Center Fr | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | Auto Tur Center Fre 2.35000000 GF Start Fre |
| Res BW gilent Spectri gilent Spectri Center Fi Center Fi 10.0 0.00 | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | Auto Tur Center Fre 2.35000000 GF Start Fre |
| Res BW gilent Spectr RL O dB/div O dB/div 10.0 10.0 | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | s 12:14:58 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE MONITOR OT 1 2.391 5 GHz -48.917 dBm | Auto Tun Center Fre 2.35000000 GH Start Fre 2.300000000 GH |
| Res BW sq glient Spectr RL Center Fi | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | 12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz | Auto Tun Center Fre 2.35000000 GF Start Fre 2.300000000 GF |
| Res BW sq glient Spectr RL Center Fi conter Fi | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | s 12:14:58 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE MONITOR OT 1 2.391 5 GHz -48.917 dBm | Auto Tun Center Fre 2.35000000 GF Start Fre 2.300000000 GF |
| Res BW gilent Spectry gilent Spectry Center Fi Conter | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | s 12:14:58 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE MONITOR OT 1 2.391 5 GHz -48.917 dBm | Auto Tur Center Fre 2.35000000 GH 2.30000000 GH 2.30000000 GH 2.40000000 GH |
| Res BW gilent Spectr gilent Spectr Center Fi CodB/div 0 | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PN0: Fast 😱 | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 | s 12:14:58 AMDec 13, 2019 TRACE 1 2 3 4 5 0 TYPE MILE DET P P P P P P rr1 2.391 5 GHz -48.917 dBm | Auto Tun Center Fre 2.350000000 GF Start Fre 2.300000000 GF Stop Fre 2.40000000 GF |
| Res BW gjlent Spectr gjlent Spectr Code/div O | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.350000000 Ref Offset 1 dB Ref 20.00 dBm | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH | s | Auto Tun Center Fre 2.350000000 GF Start Fre 2.300000000 GF Stop Fre 2.40000000 GF |
| Res BW gjlent Spectr gjlent Spectr Code/div O | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000 | 0 GHz PNO: Fast IFGain:Low | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH | s | Auto Tun Center Fre 2.350000000 GF Start Fre 2.300000000 GF 2.400000000 GF 2.400000000 GF CF Ste 10.000000 MF Auto Ma |
| Content Content <t< td=""><td>100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.350000000 Ref Offset 1 dB Ref 20.00 dBm</td><td>0 GHz PNO: Fast IFGain:Low</td><td>SENSE:INT Trig: Free Run #Atten: 40 dB</td><td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH</td><td>s</td><td>Auto Tun Center Fre 2.350000000 GF 2.300000000 GF 2.400000000 GF 2.40000000 GF 10.000000 MF Auto Ma</td></t<> | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.350000000 Ref Offset 1 dB Ref 20.00 dBm | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH | s | Auto Tun Center Fre 2.350000000 GF 2.300000000 GF 2.400000000 GF 2.40000000 GF 10.000000 MF Auto Ma |
| Content Content <t< td=""><td>100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.350000000 Ref Offset 1 dB Ref 20.00 dBm</td><td>0 GHz PNO: Fast IFGain:Low</td><td>SENSE:INT Trig: Free Run #Atten: 40 dB</td><td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH</td><td>s</td><td>Auto Tun Center Fre 2.350000000 GF 2.300000000 GF 2.400000000 GF 2.40000000 GF 10.000000 MF Auto Ma</td></t<> | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.350000000 Ref Offset 1 dB Ref 20.00 dBm | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH | s | Auto Tun Center Fre 2.350000000 GF 2.300000000 GF 2.400000000 GF 2.40000000 GF 10.000000 MF Auto Ma |
| #Res BW gilent Spectric gilent Spectric G RL Conter Fi | 100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.350000000 Ref Offset 1 dB Ref 20.00 dBm | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH | s | Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH 2.40000000 GH 10.000000 MH Auto Ma |
| Product Product <t< td=""><td>100 kHz</td><td>0 GHz PNO: Fast IFGain:Low</td><td>SENSE:INT Trig: Free Run #Atten: 40 dB</td><td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH</td><td>s 12:14:58 AMDec 13, 2019 TRACE 12 23 4 5 G TYPE MAMMAN DET P P P P P r11 2.391 5 GHz -48.917 dBm -22:43 dBm -22:43 dBm -22:43 dBm</td><td>Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH 2.40000000 GH 10.000000 MH Auto Ma</td></t<> | 100 kHz | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH | s 12:14:58 AMDec 13, 2019 TRACE 12 23 4 5 G TYPE MAMMAN DET P P P P P r11 2.391 5 GHz -48.917 dBm -22:43 dBm -22:43 dBm -22:43 dBm | Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH 2.40000000 GH 10.000000 MH Auto Ma |
| #Res BW gjlent Spectr gjlent Spectr G gjlent Spectr G RL G Center Fi G 0.00 G 10.0 G 20.0 G 30.0 G 40.0 G | 100 kHz | O GH2 PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | STATUS | s | Auto Tun Center Fre 2.35000000 GH Start Fre 2.30000000 GH Stop Fre 2.40000000 GH |

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| | | of SA | | | | | | | | |
|--|--|--------------------------|----------------------------|---------------------------------|----------------|-----------------------|--|--|--|--|
| | um Analyzer - Swep RF 50 Ω | | | SEN | ISE:INT | | ALIGN AUTO | 12:15:07 A | MDec 13, 2019 | _ |
| | req 2.49175 | 0000 GH | lz | | | | e: Log-Pwr | TRA | CE 123456 PE MWWWWW ET P P P P P P | Frequency |
| | | P IF | NO: Fast 📮 Gain:Low | #Atten: 40 | | in ginora. | . 2001200 | D | ETPPPPP | |
| | Ref Offset 1 di | в | | | | | Mkr1 2 | 494 39 | 0 0 GHz | Auto Tun |
| 10 dB/div -og r | Ref 20.00 dl | | | | | | | -49.2 | 66 dBm | |
| | | | | | | | | | | Center Fre |
| 10.0 | | | | | | | | | | 2.491750000 GH |
| | | | | | | | | | | |
| 0.00 | | | | | | | | | | Start Fre |
| 10.0 | | | | | | | | | | 2.483500000 GH |
| 10.0 | | | | | | | | | | |
| 20.0 | | | | | | | | | -22.43 dBm | Oton Fra |
| | | | | | | | | | | Stop Fre 2.50000000 GH |
| 30.0 | | | | | | | | | | 2.0000000000000 |
| | | | | | | | | | | CF Ste |
| 40.0 | | | | | | 1 | | | | 1.650000 MH |
| 50.0 | rth when when here | | - to - 4 | od a m | n n Au- | | | | | <u>Auto</u> Ma |
| N.J. 101.17 | የግድ በማት የአማግ የየሰላች ፖለቲያት | ᡊᢏᡔᡘᡃᡁᡃᡆᠰᠣᠵᢇ | Mall and Park | ግት የሆነ አስር እስ | ԱՆՆԻՆ Բար այլո | har and hour | վ՝ Դեդ/ՂչմԻԿՆմ/Նթ/մ | 4-14-11 (1-1 H V 16.1 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| 60.0 | | | | | | | | | | Freq Offs 0 H |
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| 70.0 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | 14 mm 2 E 0 | | |
| | 3500 GHz | | #\/B\// | 200 64- | | | | | 0000 GHz | |
| #Res BW | | | #VBW | 300 kHz | | | Sweep | 1.600 ms | (601 pts) | |
| #Res BW | 100 kHz | | #VBW | 300 kHz | | | | 1.600 ms | | |
| #Res BW ^{IISG} Agilent Spectr | 100 kHz um Analyzer - Swej | | #VBW | | ISE:INT | | Sweep | 1.600 ms | : (601 pts) | |
| #Res BW ISG Igilent Spectr | 100 kHz | AC 00000 G | 6Hz | SEN | | Avg Type | Sweep status ALIGNAUTO e: Log-Pwr | 1.600 ms 12:15:40 A TRA | MDec 13, 2019 | Frequency |
| #Res BW ISG Igilent Spectr | 100 kHz um Analyzer - Swep RF 50 Ω | AC 00000 G P | | SEN | Run | | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D | (601 pts) MDec 13, 2019 СЕ 12 34 5 6 РЕ МУЖИЖИ ЕТ Р Р Р Р Р Р | |
| fRes BW Igilent Spectr R RL Center F | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Frequency Auto Tur |
| fRes BW Igilent Spectr R RL Center F | 100 kHz um Analyzer - Swer RF 50 Q req 14.50000 | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | (601 pts) MDec 13, 2019 СЕ 12 34 5 6 РЕ МУЖИЖИ ЕТ Р Р Р Р Р Р | |
| fRes BW Igilent Spectr R RL Center F | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tun |
| fRes BW Igilent Spectr R RL Center F | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tur Center Fre |
| Res BW sg glent Spectr RL Center F Center F 10 0 10 0 | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tur Center Fre |
| Res BW sg glent Spectr RL Center F Center F 10 0 10 0 | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tur Center Fre 14.50000000 GH |
| Res BW sci glient Spectri d RL Center F 0 dB/div 10.0 0.00 | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tur Center Fre 14.50000000 GH Start Fre |
| Res BW sci glient Spectri d RL Center F 0 dB/div 10.0 0.00 | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tur Center Fre 14.50000000 GF Start Fre |
| Res BW scienter F center F 0 dB/div 0 0 0 0 10 0 10 0 10 0 | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 1 2 3 4 5 6 PE M PP P P P P 185 GHz | Auto Tur Center Fre 14.50000000 Gł Start Fre 2.50000000 Gł |
| Res BW gilent Spectr gilent Spectr C RL Center F | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 12 34 5 6 P P P P P P P 85 GHz 04 dBm | Auto Tur Center Fre 14.50000000 GF Start Fre 2.50000000 GF Stop Fre |
| fRes BW gilent Spectr gilent Spectr RL Center F 10.0 0 dB/div 0 dB/di | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN | Run | Avg Type | Sweep status ALIGNAUTO 2: Log-Pwr 2: 10/10 | 1.600 ms 12:15:40 A TRA TY D kr1 26.4 | MDec 13, 2019 CE 12 34 5 6 P P P P P P P 85 GHz 04 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre |
| G BW gjlent Spectr C gjlent Spectr C Code/div C O C | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | мDec 13, 2019 ст. 12, 23 4 5 6 Р. Р. Р. Р. Р. Р. Р. 185 GHz 04 dBm -22.43 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH |
| #Res BW gilent Spectr gilent Spectr Conter File 0 dB/div 0 | 100 kHz um Analyzer - Swep RF 50 Q req 14.50000 Ref Offset 1 di | AC 00000 G P IF | Hz NO: Fast Sain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH CF Ste 2.40000000 GH |
| Control Control <t< td=""><td>100 kHz</td><td>AC 00000 G P IF</td><td>Hz NO: Fast 🖵</td><td>SEN Trig: Free #Atten: 40</td><td>Run dB</td><td>Avg Type</td><td>SWeep status alignauto 2: Log-Pwr 10/10 M</td><td>1.600 ms</td><td>MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1</td><td>Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH</td></t<> | 100 kHz | AC 00000 G P IF | Hz NO: Fast 🖵 | SEN Trig: Free #Atten: 40 | Run dB | Avg Type | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH |
| Res BW gilent Spectr RL gilent Spectr R Center F R 0 dB/div 0 0 0 0 | 100 kHz | AC 00000 G P IF | Hz NO: Fast Sain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma |
| Res BW gilent Spectr RL gilent Spectr R Center F R CodeJ/div Second 0.00 | 100 kHz | AC 00000 G P IF | Hz NO: Fast Sain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma |
| #Res BW giltent Spectri giltent Spectri giltent Spectri G RL Center F 0 0 dB/div 0 0 0 | 100 kHz | AC 00000 G P IF | Hz NO: Fast Sain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH CF Ste 2.40000000 GH Auto Ma |
| #Res BW giltent Spectri giltent Spectri giltent Spectri G RL Center F 0 0 dB/div 0 0 0 | 100 kHz | AC 00000 G P IF | Hz NO: Fast Sain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH CF Ste 2.40000000 GH Auto Ma |
| #Res BW gilent Spectr gilent Spectr G RL Conter Fi 0 0 0B/div 0 0 0 | 100 kHz um Analyzer - Swej RF 50 Ω req 14.50000 Ref Offset 1 di Ref 20.00 di 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | AC 00000 G P IF | Hz NO: Fast Sain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | SWeep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 CE 12, 23 4 5 6 P P P P P P P B85 GHz 04 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH CF Ste 2.40000000 GH Auto Ma |
| #Res BW tsg | 100 kHz | AC 00000 G P IF | Hz NO: Fast Gain:Low | SEN Trig: Free #Atten: 40 | Run dB | Avg Type Avg Hold: | Sweep status alignauto 2: Log-Pwr 10/10 M | 1.600 ms | MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH CF Ste 2.40000000 GH |

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4.8.1.3 GFSK 1M_Highest Channel



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| | RF 50 Ω 🚹 DC | | SENSE:INT | ALIGNAUTO | 12:17:49 AMDec 13, 2019 | Frequency |
|--|---|----------------------------------|--|--|--|---|
| Center F | req 15.075000 I | MHz PNO: Fast G | Trig: Free Run | Avg Type: Log-Pwr Avg Hold:>50/50 | TRACE 123456 TYPE MWWWWW DET PPPPP | Frequency |
| 0 dB/div | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | | Mkr1 150 kHz -41.447 dBm | Auto Tun |
| | Kei 20.00 übili | | | | | |
| 10.0 | | | | | | Center Fre 15.075000 MH |
| | | | | | | |
| 0.00 | | | | | | Start Fre |
| 10.0 | | | | | | 150.000 kł |
| 20.0 | | | | | | |
| 20.0 | | | | | | Stop Fre 30.000000 MH |
| 30.0 | | | | | -32.49 dBm | 00.000000 mil |
| 40.0 | | | | | | CF Ste |
| | | | | | | 2.985000 MH <u>Auto</u> Ma |
| 50.0 | | | | | | |
| 60.0 | alleletta dita di anti- | ana ana kao kata kuta k | ماري الترسيم التما أمتا ستناب ا | e a cara a materialmante destruit sátilata | later da salat, ite alaberti d | Freq Offs 0 H |
| 70.0 | | | | heije stalen in die operspielige eksternelige bliede sta | | |
| | | | | | | |
| Start 150 | kHz | | | | Stop 30.00 MHz | |
| | | | | | | |
| ≉Res BW | | #VBV | V 30 kHz | | 85.4 ms (3001 pts) | |
| #Res BW | 10 kHz | #VBV | V 30 kHz | | 85.4 ms (3001 pts) | |
| FRes BW ISG Igilent Spectr V RL | 10 kHz um Analyzer - Swept SA RF 50 Ω AC | | V 30 KHZ | ALIGN AUTO | DC Coupled | Frequency |
| Res BW sg gilent Spectr g RL | 10 KHZ um Analyzer - Swept SA | 0 GHz PN0: Fast | SENSE:INT | STATUS | DC Coupled | Frequency |
| Res BW sg gilent Spectr RL Center F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 | 0 GHz | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | |
| Res BW sg gilent Spectr RL Center F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | |
| Res BW sg gilent Spectr RL Center F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | Auto Tur Center Fre |
| Res BW sg gilent Spectr RL Center F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | Auto Tur Center Fre |
| Res BW sg gilent Spectr RL Center F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | Auto Tur Center Fre 1.165000000 Gł |
| Res BW gilent Spectra gilent Spectra Center F Center F 10.0 0.00 | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | Auto Tur Center Fre 1.16500000 GH Start Fre |
| Res BW a gilent Spectr RL Center F Conter F 10.0 10.0 10.0 | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | Auto Tur Center Fre 1.16500000 GH Start Fre |
| Res BW a gilent Spectr RL Center F Conter F 10.0 10.0 10.0 | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled | Auto Tur Center Fre 1.16500000 GF Start Fre 30.00000 MF Stop Fre |
| #Res BW sa glent Spectr glent S | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 23 4 5 0 TYPE MUMAY DET D P P P P P 1 2.210 34 GHz -46.786 dBm | Auto Tur Center Fre 1.16500000 GF Start Fre 30.00000 MF Stop Fre |
| Res BW gilent Spectr gilent Spectr G RL Center F Conter F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT | ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50 | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 23 4 5 0 TYPE MUMAY DET D P P P P P 1 2.210 34 GHz -46.786 dBm | Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH |
| Res BW gilent Spectr gilent Spectr G RL Center F Conter F | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PN0: Fast | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 Mikr | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm | Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.000000 MH |
| Res BW gilent Spectr gilent Spectr Code/div O | 10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 23 4 5 0 TYPE MUMAY DET D P P P P P 1 2.210 34 GHz -46.786 dBm | Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.000000 MH |
| G BW gjlent Spectr G gjlent Spectr C gjlent Spectr C CodE/div G O B/div O G < | 10 kHz | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm | Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma |
| G BW gjlent Spectr G gjlent Spectr C G RL Conter F C Conter C | 10 kHz | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm | Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma |
| #Res BW gilant Spectr gilant Spectr Center F 0 dB/div 0 0 | 10 kHz | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm | Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.00000 MH |
| #Res BW gilent Spectr gilent Spectr gilent Spectr 0 d RL Conter F 0 0 | 10 kHz | 0 GHz PNO: Fast IFGain:Low | SENSE:INT Trig: Free Run #Atten: 40 dB | ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr | DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm | Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma |

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| ailant Spect | rum Analyzer - Sv | up of CA | | | | | | | | |
|--|---|---|------------------|---------------------------------|---------------------|-----------------------|--|---|--|---|
| U RL | RF 50 | Ω AC | | SEN | ISE:INT | | ALIGNAUTO | 12:18:22 AF | 4Dec 13, 2019 | Frequency |
| enter F | req 2.3500 | P | 'NO: Fast 🖵 | Trig: Free #Atten: 40 | | Avg Type Avg Hold: | :: Log-Pwr >200/200 | TRAC TYF DE | E 123456 E M WWWWW T P P P P P P | ricqueriey |
| | D-608 | | Gain:Low | #Atten: 40 | , ub | | Mk | (r1 2.30 | | Auto Tur |
|) dB/div og | Ref Offset 1 Ref 20.00 | | | | | | | -48.5 | 41 dBm | |
| | | | | | | | | | | Center Fre |
| 10.0 | | | | | | | | | | 2.350000000 GI |
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| J.UU | | | | | | | | | | Start Fr |
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| 0.0 UMANA | WWW.W | uly-hayapagelergi | williamotor | warang fait for wh | - Marina Contractor | all line has | when | Who developed | yhaddalaan | |
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| 70.0 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | Stop 2.40 | 0000 CHz | |
| | 000 GHz | | #\/B\/ | 300 647 | | | Sween 0 | 600 mc (| 1000 GH2 | |
| | 0000 GHz 100 kHz | | #VBW | 300 kHz | | | Sweep 9 | .600 ms (| 1001 pts) | |
| Res BW | 100 kHz | went SA | #VBW | 300 kHz | | | | .600 ms (| 1001 pts) | |
| Res BW sg gilent Spect | 100 kHz rum Analyzer - So RF 50 | Ω AC | | | ISE:INT | | STATUS | .600 ms (| 1001 pts) | Frequency |
| Res BW 3G gilent Spect | 100 kHz rum Analyzer - Sv | ∝ ac '50000 Gi | Hz NO: Fast 😱 | SEN | Run | | STATUS | .600 ms (| 1001 pts) | Frequency |
| Res BW ig <mark>;ilent Spect</mark> RL | 100 kHz rum Analyzer - So RF 50 req 2.4917 | Ω AC 50000 GI P IF | Hz | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | |
| Res BW ^{gilent Specto} RL enter F | 100 kHz rum Analyzer - So RF 50 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) ^{4Dec 13, 2019 Е 1 2 3 4 5 6 Е МММММ т Р Р Р Р Р Р} | |
| Res BW ^{3G} gilent Specto RL enter F | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | Auto Tu |
| Res BW glient Spectr RL enter F o dB/div | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | Auto Tur Center Fr |
| Res BW ilent Spect RL center F 0 dB/div | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | Auto Tur Center Fr |
| Res BW iiient Spect RL enter F 0 dB/div | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | Auto Tu Center Fr 2.491750000 G Start Fr |
| Res BW is glient Spect RL enter F od 0 dB/div og 0.00 | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | Auto Tur Center Fr 2.491750000 G Start Fra |
| Res BW ag glient Spect RL enter F 0 dB/div 0 0 0.0 | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G |
| Res BW ag glient Spect RL enter F 0 dB/div 0 0 0.0 | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr |
| Res BW Galarian Spectra RL OdB/div OdB | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm | Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1 | 2 AC 50000 GI P IF | Hz NO: Fast 😱 | SEN | Run | Avg Type | STATUS ALIGNAUTO 4: Log-Pwr >200/200 | .600 ms (12:18:32 Af TRAC TYP DR .485 72 | 1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | 2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C | Hz NO: Fast 😱 | SEN Trig: Free #Atten: 40 | | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2 | 12:18:32 AI TRAG TVA 00 485 72: -47.90 | 4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | 2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C | Hz Gain:Low | SEN Trig: Free #Atten: 40 | | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2 | 12:18:32 AI TRAG TVA 00 485 72: -47.90 | 4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF Sto 1.650000 M Auto M |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | 2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C | Hz Gain:Low | SEN Trig: Free #Atten: 40 | | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2 | 12:18:32 AI TRAG TVA 00 485 72: -47.90 | 4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm | Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF Sto 1.650000 M Auto M |
| Res BW a gilent Spect RL RL CodB/div O G G G G G G G G G G G G G G G G G G | 100 kHz | 2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C | Hz Gain:Low | SEN Trig: Free #Atten: 40 | | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2 | 12:18:32 AI TRAG TVA 00 485 72: -47.90 | 4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm | Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | 2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C | Hz Gain:Low | SEN Trig: Free #Atten: 40 | | Avg Type Avg Hold: | status ALIGN AUTO I: Log-Pwr >200/200 Mkr1 2 | 12:18:32 AI 12:18:32 AI 178A 178A 178A 1797 179 | 4Dec 13, 2019 E 12, 2019 E 12, 2019 E 12, 2019 T 5 GHz 03 dBm | Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M |
| Res BW 33 gilent Spect RL RL CodB/div 99 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 <t< td=""><td>100 kHz</td><td>2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C</td><td>Hz Gain:Low</td><td>SEN Trig: Free #Atten: 40</td><td></td><td>Avg Type Avg Hold:</td><td>ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2</td><td>12:18:32 AI TRAG TVA 00 485 72: -47.90</td><td>1001 pts)</td><td>Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł</td></t<> | 100 kHz | 2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C | Hz Gain:Low | SEN Trig: Free #Atten: 40 | | Avg Type Avg Hold: | ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2 | 12:18:32 AI TRAG TVA 00 485 72: -47.90 | 1001 pts) | Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł |

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| Indian RF 50 Q. AC SENSE:INT ALIGNAUTO 12:19:05 AMDec 13, 20:9 Center Freq 14.500000000 GHz PN0: Fast Trig: Free Run Avg Type: Log-Pwr Trace Trace PN0: Fast Frig: Free Run Avg Type: Log-Pwr Trace Trace Trace Trace Ref Offset 1 dB Mkr1 26.479 GHz -38.678 dBm Auto Tu Log Center Free -38.678 dBm Center Free |
|--|
| Center Fred 14.300000000 GHZ PN0: Fast Difference Trig: Free Run Avg Hold: 10/10 Trig: Free Run Avg Hold: 10/10 Trig: Free Run Difference Trig: Free Run Avg Hold: 10/10 Trig: Free Run Difference Trig: Free Run Dif |
| Ref Offset 1 dB 10 dB/div Ref 20.00 dBm Log -38.678 dBm |
| |
| |
| -10.0 Start Fr 2.50000000 G |
| 20.0 22.49 dbm |
| -40.0 -50.0 Wildland with a transfer of the device of the |
| 60.0 Freq Offs |
| |
| Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.294 s (8001 pts) |
| #Res BW 100 km2 #VBW 300 km2 Sweep 2.294 5 (600 T prs) Msg status |

4.8.1.4 GFSK 2M_Lowest Channel



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| | RF 50 Ω 🧥 DC | | SENSE:INT | ALIGN AUTO | 12:21:33 AMDec 13, 2019 | Fraguanau |
|---|--|---|-------------------|--|--|---|
| enter Fr | eq 79.500 kHz | PNO: Wide 😱 | Trig: Free Run | Avg Type: Log-Pwr Avg Hold:>50/50 | TRACE 123456 TYPE M WWWW DET P P P P P | Frequency |
|) dB/div | Ref Offset 1 dB Ref 0.00 dBm | IFGain:Low | #Atten: 26 dB | | Mkr1 9.000 kHz -52.421 dBm | Auto Tur |
| | | | | | | Center Fre |
| 0.0 | | | | | | 79.500 ki |
| 0.0 | | | | | | Otert Fr |
| D.O | | | | | | Start Fr 9.000 ki |
| D.O | | | | | | |
| 1 | | | | | -43.36 dBm | Stop Fr 150.000 k |
| WULA | n - | | | | | CF Ste |
| D.O | when the second se | 1.00 | | | | 14.100 k Auto M |
| 0.0 | "U " | ՙ _՚ ՚՚ ^ՠ ՙՙ ^ՠ ՟՟֍ֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈ | wy.Mr. wy. wy. wy | in way way | Λ | |
| 0.0 | | | | | ᠰ᠘ᡔᢇ᠋ᡃᠯᡗᡀᢞᡀᠿᢩᢕᡗᡳᠩᡘᢧᢇᢪᡡ | Freq Offs 0 |
| D.O | | | | | | |
| | | | | | Oton 450.00 kills | |
| tart 9.00 Res BW | | #VBW | 3.0 kHz | Sween | Stop 150.00 kHz 134.8 ms (601 pts) | |
| | | " • • • | 010 1012 | өмеер | 194.8 113 (001 pts) | |
| G | | | | - | DC Coupled | |
| <mark>jilent Spectru</mark> R L | u <mark>m Analyzer - Swept SA</mark> RF 50 Ω <u>A</u> DC | | SENSE:INT | ALIGN AUTO | DC Coupled | Frequency |
| <mark>ilent Spectru</mark> R L | um Analyzer - Swept SA | Hz PNO: Fast 😱 | SENSE:INT | STATUS | L DC Coupled | Frequency |
| ilent Spectro RL enter Fr | u <mark>m Analyzer - Swept SA</mark> RF 50 Ω <u>A</u> DC | Hz | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled | |
| ilent Spectro RL enter Fr | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tu |
| ilent Spectru RL enter Fr I dB/div | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tu Center Fr |
| ilent Spectru RL enter Fr | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tur Center Fr 15.075000 M |
| dB/div | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tur Center Fra 15.075000 M Start Fra |
| lient Spectri RL enter Fr dB/div 9 0.0 0.0 | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tur Center Fn 15.075000 M Start Fn 150.000 k |
| lient Spectri RL enter Fr d dB/div 0.0 0.0 | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Frequency Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi |
| dE/div | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tur Center Fn 15.075000 M Start Fn 150.000 k Stop Fn 30.000000 M |
| Ilent Spectra RL dB/div 29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tur Center Fro 15.075000 M Start Fro 150.000 ki Stop Fro |
| dB/div | um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB | Hz PNO: Fast 😱 | SENSE:INT | ALIGN AUTO AVg Type: Log-Pwr | DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto M |
| dB/div | Im Analyzer - Swept SA RF S0 2 ▲ DC eq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | Servse:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 | ▲ DC Coupled | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto M |
| dB/div gB/div gg a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0 | Im Analyzer - Swept SA RF S0 2 ▲ DC eq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | Servse:INT | ALIGN AUTO AVg Type: Log-Pwr | ▲ DC Coupled | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto M |
| dE/div | um Analyzer - Swept SA RF S0 2 A DC eq 15.075000 Mi Ref Offset 1 dB Ref 20.00 dBm | Hz PN0: Fast | Servse:INT | ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 | ▲ DC Coupled | Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Ste 2.985000 M |

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| ailant Coost | rum Analyzer - Swe | -4.64 | | | | | | | | |
|---|--|---|----------------------------|--------------------------|--|------------------------|--|--|---|---|
| U RL | RF 50 Ω | AC | | SEN | NSE:INT | | | 12:22:17 A | MDec 13, 2019 | F |
| Center F | req 1.16500 | F | 'NO: Fast 😱 | Trig: Free | | Avg Type Avg Hold: | e: Log-Pwr :>50/50 | TRAC TYI DI | ET P P P P P P | Frequency |
| | | | Gain:Low | #Atten: 40 | J d 🗅 | | Mkr | | 58 GHz | Auto Tur |
| 0 dB/div | Ref Offset 1 d Ref 20.00 d | | | | | | | -46.1 | 06 dBm | |
| . ^{og} | | | | | | | | | | |
| 10.0 | | | | | | | | | | Center Fre 1.165000000 GH |
| | | | | | | | | | | 1.1000000000 |
| 0.00 | | | | | | | | | | |
| | | | | | | | | | | Start Fre 30.000000 MH |
| 10.0 | | | | | | | | | | 00.000000 |
| 20.0 | | | | | | | | | | Oton Ere |
| | | | | | | | | | -23.36 dBm | 2.30000000 GH |
| 30.0 | | | | | | | | | | 2.000000000000 |
| | | | | | | | | | | CF Ste |
| 40.0 | | | | | | | | | | 227.000000 MH |
| 50.0 | and the second | at a spectrum | terte de de la Deve | na gutanta da ta | لللام وخليتين الم | a patiblican la b | and the set of a set | | | <u>Auto</u> Ma |
| and a second star of the | a dealer i dealer a bei gescheiden i die | within the second states of the | | allanda kali kiling | a and a second | te almanyarrah bili da | | | | Freq Offs |
| 60.0 | | | | | | | | | | 0H |
| 70.0 | | | | | | | | | | |
| , U.U | | | | | | | | | | |
| | | | | | | | | | | |
| Mart 20 h | | | | | | | | Ctop 1 | 200 00- | |
| Start 30 N #Res BW | ∕IHz 100 kHz | | #VBW | 300 kHz | | | Sweep 2 | 2 Stop 17.1 ms (| .300 GHz 8001 pts) | |
| | | | #VBW | 300 kHz | | | Sweep 2 | 17.1 ms (| .300 GHz (8001 pts) | |
| FRes BW | 100 kHz | pt SÅ | #VBW | 300 kHz | | | | 17.1 ms (| .300 GHz (8001 pts) | |
| Res BW ISG Igilent Specto V RL | 100 kHz rum Analyzer - Swe RF 50 Ω | AC | | | NSE:INT | | STATUS | 17.1 ms (| (8001 pts) | Frequency |
| Res BW sg gilent Specto 7 RL | 100 kHz rum Analyzer - Swe | AC 0000 GI | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | | STATUS | 17.1 ms (| (8001 pts) | Frequency |
| Res BW sg gilent Specto 7 RL | 100 kHz rum Analyzer - Swe RF 50 ຊ req 2.35000 | AC 0000 GI F IF | Hz | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 Al TRAC TYI D | MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M M M M M M M M M M M M M M | |
| Res BW gilent Spectr RL Center F 0 dB/div | 100 kHz rum Analyzer - Swe RF 50 Ω | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | (8001 pts) | |
| Res BW sg gilent Spectr / RL / Center F | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur |
| Res BW sg gilent Spectr RL Center F | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur Center Fre |
| Res BW sg gilent Spectr RL center F 0 dB/div | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur Center Fre |
| Res BW sg gilent Spect RL Center F | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur Center Fre 2.35000000 GH |
| Res BW gilent Spectr gilent Spectr Center F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur Center Fre 2.35000000 GH Start Fre |
| Res BW gilent Spectr gilent Spectr Center F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur Center Fre |
| Res BW s gilent Spect RL RL OdB/div OdB/div 00 00 00 00 00 00 00 00 00 00 00 00 00 | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | 8001 pts) | Auto Tur Center Fre 2.35000000 GH Start Fre 2.30000000 GH |
| c dB/div 0 dB/div 0 dB/div 0 d2/div | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz | Auto Tur Center Fre 2.35000000 GH Start Fre |
| Res BW s gilent Spectr gilent Spectr RL Center F | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | 8001 pts) | Auto Tur Center Fre 2.35000000 GH Start Fre 2.30000000 GH Stop Fre |
| Res BW gilent Spectr gilent Spectr RL Center F | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH |
| | 100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d | AC 0000 GI F IF | Hz PNO: Fast 😱 | SEM Trig: Free | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (12:22:29 A TRAC TYN D r1 2.40 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH CF Ste 10.000000 MH |
| Res BW gilent Spectr gilent Spectr RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 100 kHz | B B B B B B B B B B B B B B B B B B B | HZ NO: Fast Gain:Low | Trig: Free #Atten: 40 | NSE:INT | Avg Type Avg Hold: | ALIGNAUTO 2: Log-Pwr >200/200 MIK | 17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH |
| Res BW gilent Spectric gilent Spectric RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 100 kHz | AC 0000 GI F IF | HZ NO: Fast Gain:Low | Trig: Free #Atten: 40 | NSE:INT | Avg Type | ALIGNAUTO 2: Log-Pwr >200/200 MIK | 17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.400000000 GH 2.40000000 GH CF Ste 10.00000 MH Auto Ma |
| Res BW gilent Spectric gilent Spectric RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 | 100 kHz | B B B B B B B B B B B B B B B B B B B | HZ NO: Fast Gain:Low | Trig: Free #Atten: 40 | NSE:INT | Avg Type Avg Hold: | ALIGNAUTO 2: Log-Pwr >200/200 MIK | 17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso |
| Image: constraint of the second sec | 100 kHz | B B B B B B B B B B B B B B B B B B B | HZ NO: Fast Gain:Low | Trig: Free #Atten: 40 | NSE:INT | Avg Type Avg Hold: | ALIGNAUTO 2: Log-Pwr >200/200 MIK | 17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH CF Ste 10.000000 MH |
| FRes BW | 100 kHz | B B B B B B B B B B B B B B B B B B B | HZ NO: Fast Gain:Low | Trig: Free #Atten: 40 | NSE:INT | Avg Type Avg Hold: | ALIGNAUTO 2: Log-Pwr >200/200 MIK | 17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0 | 8001 pts) | Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso |
| Ges BW General Spectra gilent Spectra RL gilent Spectra RL Content F General Spectra | 100 kHz | B B B B B B B B B B B B B B B B B B B | HZ NO: Fast Gain:Low | Trig: Free #Atten: 40 | NSE:INT | Avg Type Avg Hold: | ALION AUTO 2: Log-Pwr >200/200 MI k | 12:22:29 A TRAC | 8001 pts) | Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso |
| #Res BW scient Spectric gilent Spectric gilent Spectric 0 dB/div 0 0 | 100 kHz | B B B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | Trig: Free #Atten: 40 | se:INT | Avg Type Avg Hold: | ALION AUTO 2: Log-Pwr >200/200 MI k | 17.1 ms (12:22:29 A TRAC T | 8001 pts) | Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso |

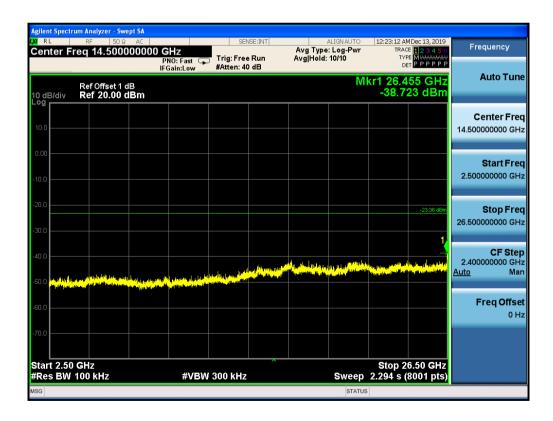
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| Agilent Spectr | um Analyzer - Swe RF 50 Ω | pt SA AC | | | ISE:INT | | ALIGNAUTO | 12:22:20 A | ADec 13, 2019 | |
|-----------------------|-------------------------------|-------------|--------------------------------------|-----------------|--------------------------|--------------|-------------|-----------------------|-----------------------|--|
| | req 2.49175 | 0000 GH | ¦Z NO: Fast ⊂⊊ Gain:Low | | Run | | : Log-Pwr | | | Frequency |
| 10 dB/div | Ref Offset 1 d Ref 20.00 d | в | Sam:Low | Pricen. 4 | | | Mkr1 2 | 499 97 | 2 5 GHz 44 dBm | Auto Tune |
| 10.0 | | | | | | | | | | Center Fred 2.491750000 GH: |
| -10.00 | | | | | | | | | | Start Free 2.483500000 GH: |
| -20.0 | | | | | | | | | -23.36 dBm | Stop Free 2.500000000 GH |
| 40.0 | «/Wmgtondug/waya | ᠇᠕ᡩᡃ᠘ᢧ᠕ᡃᡨᢗ | mboord | postiliopartion | ᡊᢧ ^ᡍ ᠃ᡪᡗᡡᢧ᠊ᠬᠬ | JANN MANUMAR | ᠕ᢛᡪᢧ᠋᠆ᡰᠥ᠆ᠰᡝ | مالم العوالي الم | 1 vernalization | CF Stej 1.650000 MH <u>Auto</u> Ma |
| -60.0 | | | | | | | | | | Freq Offse 0 H |
| Start 2.48 #Res BW | 3500 GHz 100 kHz | | #VBW | 300 kHz | | | | top 2.500 1.600 ms | 0000 GHz (601 pts) | |
| ISG | | | | | | | STATUS | | | |



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| gilent Spectr RL | RF 50 Ω | | | SEN | VSE:INT | | ALIGN AUTO | 12:26:17 A | MDec 13, 2019 | Frequency |
|--|--|---|-----------------------------------|---------------------------------|----------|-----------------------|---|--|--|--|
| enter F | req 15.0750 | P | NO: Fast 🖵 | Trig: Free | | Avg Type Avg Hold: | e: Log-Pwr :>50/50 | TRAC TY | ETPPPPP | Trequency |
| | B (98 / / | | Gain:Low | #Atten: 40 | J d D | | | | 150 kHz | Auto Tui |
| 0 dB/div | Ref Offset 1 (Ref 20.00 (| dBm | | | | | | | 15 dBm | |
| °g | | | | | | | | | | Center Fre |
| 10.0 | | | | | | | | | | 15.075000 Mi |
| | | | | | | | | | | |
| .00 | | | | | | | | | | Start Fre |
| 10.0 | | | | | | | | | | 150.000 ki |
| | | | | | | | | | | |
| 20.0 | | | | | | | | | | Stop Fre |
| 30.0 | | | | | | | | | -32.39 dBm | 30.000000 M |
| 1 | | | | | | | | | -02.00 ubii | 05.04 |
| 40.0 🛌 | | | | | | | | | | CF Ste 2.985000 Mi |
| 50.0 | | | | | | | | | | <u>Auto</u> M |
| | | | | | | | | | | |
| | ad and with the state of the | فطر ومقتوق أوروونا | | attles at all | իստ են ո | I minute broute as | والمتعالية والمتعادين | و المالية و المالية | and a shire to | Freq Offs |
| 70.0 | an a | | | and the second second | | | | | | |
| 0.0 | | | | | | | | | | |
| | | | | | | | | | | |
| tart 150 | | | | | | | | Stop 3 | 0.00 MHz | |
| tart 150 Res BW | | | #VBW | / 30 kHz | | | Sweep 2 | | 0.00 MHz (3001 pts) | |
| | | | #VBW | / 30 kHz | | | | | 3001 pts) | |
| Res BW | 10 kHz um Analyzer - Sw | | #VBW | | | | STATUS | 85.4 ms (| 3001 pts) upled | |
| Res BW ^{5G} gilent Spectr | 10 kHz | AC 00000 GI | | | NSE:INT | Avg Type | STATUS ALIGNAUTO | 85.4 ms (DC Cou 12:26:39 A TRAC | 3001 pts) upled MDec 13, 2019 | Frequency |
| Res BW ^{5G} gilent Spectr | 10 kHz um Analyzer - Sw RF 50 Q | AC 00000 GI | | | e Run | | STATUS ALIGNAUTO | 85.4 ms (DC Cou 12:26:39 A TRAC | (3001 pts) upled MDec 13, 2019 | |
| Res BW gilent Spectr RL Center F | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | Frequency Auto Tur |
| Res BW ^{5G} gilent Spectr | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) upled MDec 13, 2019 E 1 2 3 4 5 6 MWWWWW P P P P P P | |
| Res BW gilent Spectr RL Center F 0 dB/div | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | |
| Res BW gilent Spectr RL Center F | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | Auto Tur Center Fra |
| Res BW gilent Spectr RL Center F 0 dB/div | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | Auto Tur Center Fra |
| Res BW adjuint Spectra RL Conter F 0 dB/div 0 dB/div | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | Auto Tur Center Fra 1.16500000 Gi Start Fra |
| Res BW adjuint Spectra RL Conter F 0 dB/div 0 dB/div | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | Auto Tui |
| Res BW sc gilent Spectr RL center F | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | (3001 pts) apled (3001 pts) (3001 | Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M |
| Res BW sc gilent Spectr RL enter F 0 dB/div 0 dB/div | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | 3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz | Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr |
| Res BW sc gilent Spectr RL center F | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | (3001 pts) apled (3001 pts) (3001 | Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr |
| Res BW aa gilent Spectr RL RL Conter F | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | (3001 pts) apled (3001 pts) (3001 | Auto Tur Center Fr 1.165000000 Gi Start Fr 30.000000 Mi Stop Fr 2.300000000 Gi |
| Res BW aa gilent Spectr RL RL CodB/div | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC DOOOOO GH IF dB | −IZ NO: Fast ⊆ |) Trig: Free | e Run | Avg Type | ALIGNAUTO :: Log-Pwr >50/50 | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | (3001 pts) apled (3001 pts) (3001 | Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.000000 Ml |
| Res BW 3G gilent Spectr RL RL CodB/div Og Og 10.0 00 00 00 00 00 00 00 00 00 00 00 | 10 kHz | AC P P B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | Trig: Free #Atten: 40 | | Avg Type Avg Hold | ALION AUTO E: Log-Pwr >50/50 Mkr | 85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079 | (3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7 | Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.000000 Ml |
| O dB/div 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 kHz um Analyzer - Sw RF 50 Ω req 1.16500 | AC P P B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | SEP Trig: Free #Atten: 40 | | Avg Type | ALION AUTO E: Log-Pwr >50/50 Mkr | 85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6 | (3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7 | Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M |
| Res BW 3G gilent Spectr RL RL CodB/div Og Og 10.0 00 00 00 00 00 00 00 00 00 00 00 | 10 kHz | AC P P B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | Trig: Free #Atten: 40 | | Avg Type Avg Hold | ALION AUTO E: Log-Pwr >50/50 Mkr | 85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6 | (3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7 | Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M |
| O dB/div 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 kHz | AC P P B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | Trig: Free #Atten: 40 | | Avg Type Avg Hold | ALION AUTO E: Log-Pwr >50/50 Mkr | 85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6 | (3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7 | Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.000000 Ml |
| Res BW 33 | 10 kHz | AC P P B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | Trig: Free #Atten: 40 | | Avg Type Avg Hold | ALION AUTO E: Log-Pwr >50/50 Mkr | 85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6 | (3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7 | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Sta 227.000000 Ml Auto M |
| Res BW 33 | 10 kHz | AC P P B B B B B B B B B B B B B B B B B | Hz NO: Fast Gain:Low | Trig: Free #Atten: 40 | | Avg Type Avg Hold | ALION AUTO E: Log-Pwr >50/50 Mkr | 85.4 ms (DC Color 12:26:39 A TRA TRA TRA 12:26:39 A 12:26:39 A 12:26: | (3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7 | Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Sta 227.000000 Ml Auto M |

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| CI RL | rum Analyzer - Swept SA RF 50 Ω AC | | SENSE:INT | | | 6:51 AMDec 13, 2019 | Erequency |
|--|---------------------------------------|-------------|-----------------------------------|------------------------------|--------------------|---|--|
| enter F | req 2.35000000 | PNO: Fast 🖵 | Trig: Free Run | Avg Type: L Avg Hold:>20 | | TRACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P | Frequency |
| | | IFGain:Low | #Atten: 40 dB | | Mkr1.2 | .313 7 GHz | Auto Tur |
| 0 dB/div og r | Ref Offset 1 dB Ref 20.00 dBm | | | | -4 | 8.567 dBm | |
| ^{og} | | | | | | | |
| 10.0 | | | | | | | Center Fre |
| 10.0 | | | | | | | 2.350000000 GI |
| 0.00 | | | | | | | |
| | | | | | | | Start Fre |
| 10.0 | | | | | | | 2.30000000 GI |
| | | | | | | | |
| 20.0 | | | | | | -22.39 dBm | Stop Fre |
| | | | | | | | 2.40000000 G |
| | | | | | | | |
| 40.0 | | | | | | | CF Ste 10.000000 M |
| | . ∳' . . | | | | | | <u>Auto</u> M |
| ^{50.0} Wryp | soldpoler refreshington of the | with | and an all more presentations and | www.wp.ill | when white where w | wyrallylpairfilliplatelydau | |
| 50.0 | | | | | | | Freq Offs |
| | | | | | | | 01 |
| 70.0 | | | | | | | |
| | | | | | | | |
| | 0000 GHz | | | | Stop | 2.40000 GHz | |
| | 100 kHz | #VBW | 300 kHz | Sw | | ms (1001 pts) | |
| ISG | | | | | STATUS | | |
| | rum Analyzer - Swept SA RF 50 Ω AC | | SENSE:INT | ALIC | | 7:00 AMDec 13, 2019 | |
| | req 2.491750000 | GHz | | Avg Type: Lo Avg Hold:>20 | og-Pwr | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P | Frequency |
| | | PNO: Fast 🖵 | | | 007200 | | |
| | | IFGain:Low | #Atten: 40 dB | | | DET PPPPP | |
| | Ref Offset 1 dB | IFGain:Low | #Atten: 40 dB | N | 1kr1 2.493 | 922 5 GHz | |
| 0 dB/div og | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | N | 1kr1 2.493 -4 | | |
| odB/div | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | N | 1kr1 2.493 -4 | 922 5 GHz | Auto Tui |
| | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | N N | 1kr1 2.493 -4 | 922 5 GHz | Auto Tur Center Fre |
| 10.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | M | 1kr1 2.493 -4 | 922 5 GHz | Auto Tur Center Fre |
| 10.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | M | 1kr1 2.493 -4 | 922 5 GHz | Auto Tur Center Fre 2.491750000 Gi |
| 0.00 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 4U dB | M | 1kr1 2.493 -4 | 922 5 GHz | Auto Tur Center Fra 2.491750000 Gi Start Fra |
| 0.00 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | #Atten: 40 dB | | 1kr1 2.493 -4 | 922 5 GHz | Auto Tur Center Fra 2.491750000 Gi Start Fra |
| 10.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | | | 1kr1 2.493 -4 | 922 5 GHz | Auto Tur Center Fro 2.491750000 Gl Start Fro 2.483500000 Gl |
| 10.0 0.00 10.0 20.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | | | 1kr1 2.493 -4 | 922 5 GHz 8.598 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro |
| 10.0 0.00 10.0 20.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | | | Ikr1 2.493 -4 | 922 5 GHz 8.598 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro |
| 10.0 0.00 10.0 20.0 30.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | | | Ikr1 2.493 -4 | 922 5 GHz 8.598 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi |
| 10.0 0.00 10.0 20.0 30.0 | Ref Offset 1 dB Ref 20.00 dBm | IFGain:Low | | M | 1kr1 2.493 -4 | 922 5 GHz 8.598 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Ste 1.650000 Mi |
| | Ref Offset 1 dB Ref 20.00 dBm | | | ↓ 1 | -4 | 922 5 GHz 18.598 dBm -22.39 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Ste 1.650000 Mi |
| 10.0 | Ref 20.00 dBm | | | ↓ 1 | -4 | 922 5 GHz 18.598 dBm -22.39 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Sto 1.650000 Mi Auto Mi |
| 10.0 | Ref 20.00 dBm | | | ↓ 1 | -4 | 922 5 GHz 18.598 dBm -22.39 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Sto 1.650000 Mi <u>Auto Mi</u> |
| 10.0 | Ref 20.00 dBm | | | ↓ 1 | -4 | 922 5 GHz 18.598 dBm -22.39 dBm | Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Sto 1.650000 Mi <u>Auto Mi</u> |
| 10.0 | Ref 20.00 dBm | | | ↓ 1 | -4 | 922 5 GHz 18.598 dBm -22.39 dBm | Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł Auto Mł |
| 10.0 0.00 10.0 20.0 30.0 50.0 | Ref 20.00 dBm | | | ↓ 1 | -4 | 922 5 GHz 8.598 dBm | Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł Auto Mł |
| 60.0 70.0 Start 2.48 | Ref 20.00 dBm | | | | 4 | 922 5 GHz 18.598 dBm -22.39 dBm | Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH |



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| Agilent Spectrum Analyzer - Swept SA | | | | | | | |
|--|--|---------|-----------|--------------|----------------------------|------------------------------|---------------------------|
| 🕅 RL RF 50Ω AC Center Freg 14.500000000 | | NSE:INT | Avg Type: | LIGNAUTO | TRACI | Dec 13, 2019 | Frequency |
| | PNO: Fast Trig: Free IFGain:Low #Atten: 40 | | Avg Hold: | | TYP | M WWWWW PPPPPP | |
| Ref Offset 1 dB | | | | M | kr1 26.4 | | Auto Tune |
| 10 dB/div Ref 20.00 dBm | | | | | -37.98 | 51 dBm | |
| | | | | | | | Center Freq |
| 10.0 | | | | | | | 14.500000000 GHz |
| | | | | | | | |
| 0.00 | | | | | | | Start Freq |
| -10.0 | | | | | | | 2.500000000 GHz |
| | | | | | | | |
| -20.0 | | | | | | -22.39 dBm | Stop Freq |
| -30.0 | | | | | | | 26.50000000 GHz |
| 00.0 | | | | | | 1 | |
| -40.0 | | 1.4 | | يريد المراجع | la, Libratha, Bela Alianda | المطلبة بالمعادية | CF Step 2.40000000 GHz |
| -40.0 | المراجعة والمعالية التقفية والتعالي من عام العادية | | | | | | <u>Auto</u> Man |
| | | | | | | | |
| -60.0 | | | | | | | Freq Offset |
| | | | | | | | 0 Hz |
| -70.0 | | | | | | | |
| | | | | | | | |
| Start 2.50 GHz #Res BW 100 kHz | #VBW 300 kHz | | | Swoon | Stop 20 2.294 s (8 | 6.50 GHz | |
| MSG | #VBW 500 KHZ | | | Sweep | | soor pis) | |

4.8.1.6 GFSK 2M_Highest Channel



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| | RF 50 Q 🥼 D | | SENSE:IN | | ALIGN AUTO | 10:35:26 AM | 4Nov 20, 2019 | Frequency |
|--|---|---|--|---------------------|-------------------------------------|---|--|---|
| enter F | req 79.500 kH | IZ PNO: Wide IFGain:Lov | | | e: Log-Pwr d:>50/50 | TYF | E 123456 E MWW/MWW T P P P P P P | |
| 0 dB/div | Ref Offset 1 dB Ref 0.00 dBm | | | | N | lkr1 10.1 | | Auto Tur |
| ^{og} | | | | | | | | Center Fre |
| 0.0 | | | | | | | | 79.500 ki |
| .0.0 | | | | | | | | |
| | | | | | | | | Start Fr |
| 0.0 | | | | | | | | 9.000 k |
| 0.0 | | | | | | | -42.96 dBm | Stop Fr |
| 0.0 1 | | | | | | | | 150.000 k |
| "Wh | Б. п | | | | | | | CESt |
| 0.0 | Warder Warder Contraction | ſ~ | alla and a contraction of the co | | | | | CF St 14.100 k |
| 0.0 | | TT MUNICAL | man all | . A. | | | | <u>Auto</u> M |
| 0.0 | | | ~ر/ <i>الأم</i> ال . | ind wither fullinge | ᠃᠂᠕᠁ᡙᠬ᠕ | ᡯᡁᠺᡁᡬᡐᡘᢏᡁᢦᠩ᠔ | il _n hhn | Freq Offs |
| | | | | | | | | 0 |
| 0.0 | | | | | | | | |
| tart 9.00 |) kH7 | | | | | Stop 15 | 0.00 kHz | |
| | | | | | | | | |
| Res BW | 1.0 kHz | #\ | /BW 3.0 kHz | | Sweep | 134.8 ms | | |
| Res BW | | #\ | /BW 3.0 kHz | | | 134.8 ms | (601 pts) | |
| sG gilent Spect | 1.0 kHz rum Analyzer - Swept | SA | | | STATUS | DC Cou | (601 pts) Ipled | |
| iG <mark>jilent Spect</mark> R L | 1.0 kHz | sa Dicentina di la constanta di la Di MHz | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou | (601 pts) ipled | Frequency |
| iG <mark>jilent Spect</mark> R L | 1.0 kHz rum Analyzer - Swept RF 50 Q A req 15.075000 | SA DC | SENSE:IN | Avg Typ | ALIGN AUTO | 10:35:49 AM TRAC TYP DE | (601 pts) pled 4Nov 20, 2019 E 1 2 3 4 5 6 E M WWWWW T P P P P P P | Frequency Auto Tu |
| g <mark>ilent Spect</mark> RL enter F | 1.0 kHz rum Analyzer - Swept RF 50 Q 🟦 [| SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) ipled | |
| ilent Spect RL enter F | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu |
| G RL enter F OdB/div | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr |
| g ilent Spect RL enter F OdB/div Og 0.0 | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M |
| G ilent Spect RL enter F 0 dB/div 9 0.0 0.0 0.0 | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr |
| G ent Spect RL enter F 0 dB/div 29 0.0 | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr |
| is ilent Spect RL enter F 0 dB/div 0 0 0 | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr |
| G | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr |
| G | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M |
| G | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M |
| G | 1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB | SA DC D MHz PNO: Fast IFGain:Lov | SENSE:IN | Avg Typ | ALIGN AUTO | DC Cou 10:35:49 AM TRAC TYPE DE Mkr1 | (601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M |
| G | 1.0 kHz | SA DC NHZ PNO: Fast IFGain:Lov M | SENSE:IN Trig: Free Run #Atten: 40 dB | | ALIGNAUTO De: Log-Pwr d>50/50 | DC Cou | (601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6 | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto |
| G Spect Spect (Constraint) (Con | 1.0 kHz | SA DC PNO: Fast IFGain:Lov m | SENSE:IN | | ALIGNAUTO De: Log-Pwr d>50/50 | DC Cou | (601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6 | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto |
| G | 1.0 kHz | SA DC PNO: Fast IFGain:Lov m | SENSE:IN Trig: Free Run #Atten: 40 dB | | ALIGNAUTO De: Log-Pwr d>50/50 | DC Cou | (601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6 | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M |
| G IIIII Spect RL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 1.0 kHz | SA DC PNO: Fast IFGain:Lov m | SENSE:IN Trig: Free Run #Atten: 40 dB | | ALIGNAUTO De: Log-Pwr d>50/50 | DC Cou | (601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6 | Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto |

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| | r <mark>um Analyzer - Swa</mark> RF 50 Ω | | | SEN | VSE:INT | | ALIGN AUTO | 10:36:10 4 | MNov 20, 2019 | |
|--|---|----------------------------|--------------------------------|--------------------------------|-------------------------|---|--|---|---|---|
| | req 1.16500 | 00000 G | HZ PNO: Fast 😱 Gain:Low | Tain Fac | Run | | e: Log-Pwr | TRAC | E P P P P P P | Frequency |
|) dB/div | Ref Offset 1 o Ref 20.00 o | зB | Sam.cow | | | | Mkr | 1 2.007 -46.5 | 74 GHz 29 dBm | Auto Tui |
| | | | | | | | | | | Center Fre |
| 10.0 | | | | | | | | | | 1.165000000 Gi |
|).00 | | | | | | | | | | Start Fre 30.000000 MI |
| 0.0 | | | | | | | | | | |
| 0.0 | | | | | | | | | -22.96 dBm | Stop Fr 2.300000000 G |
| 3.0 | | | | | | | | | | CF St |
| 0.0 | | | | | | | | , , 1 | ath diadaa a | 227.000000 M Auto M |
| 0.0 <mark>Williams</mark> | n fra than a strand film a a manga ng _{ban} a kata an | | le pois entré de la dise en | | | in al na dia ang tilin Pangan pang ang tilin | | | | Freq Offs |
| 0.0 | | | | | | | | | | 0 |
| 0.0 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | #\(D)A(| 200 642 | | | Swoon 2 | | .300 GHz | |
| Res BW | MHz 100 kHz | | #VBW | 300 kHz | | | Sweep 2 | | | |
| Res BW ^{3G} gilent Spectr | 100 kHz rum Analyzer - Swa | | #VBW | | | | STATUS | 17.1 ms (| 8001 pts) | |
| Res BW g ilent Spectr RL | 100 kHz rum Analyzer - Swa | AC 00000 G | Hz PNO: Fast | SEM | NSE:INT | | STATUS | 17.1 ms (10:36:22 Al | 8001 pts) | Frequency |
| Res BW G ilent Spectr RL enter F | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF IF | Hz | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | |
| Res BW G ilent Spectr RL enter F OdB/div | 100 kHz rum Analyzer - Swo RF 50 Q req 2.35000 | AC DOOOOO G IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | Auto Tu |
| Res BW | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | Auto Tu Center Fr |
| Res BW | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | Auto Tu Center Fr 2.35000000 G Start Fr |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | Auto Tu Center Fr 2.35000000 G Start Fr |
| G G G G G G G G G G G G G G G G G G G | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr |
| G G G G G G G G G G G G G G G G G G G | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) MNov 20, 2019 E 1 2 3 4 5 6 M WWW MARK T P P P P P P 1 0 GHz 91 dBm | Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.400000000 G |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC DOOOOO G IF IF | Hz PNO: Fast | SEM | NSE:INT | Avg Type | STATUS ALIGNAUTO 200/200 | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) MNov 20, 2019 E 1 2 3 4 5 6 M WWW MARK T P P P P P P 1 0 GHz 91 dBm | Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c | AC 00000 G | Hz PNO: Fast Gain:Low | SB Trig: Free #Atten: 40 | se:INT P Run D dB | Avg Type Avg Hold | ALIGNAUTO :: Log-Pwr >200/200 MIK | 17.1 ms (10:36:22 A TRAC TY D r1 2.39 | 8001 pts) | Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Sto 10.000000 M Auto M |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | AC 00000 G | Hz PNO: Fast Gain:Low | SB Trig: Free #Atten: 40 | se:INT P Run D dB | Avg Type Avg Hold | ALIGNAUTO :: Log-Pwr >200/200 MIK | 17.1 ms (10:36:22 A TRAC TYN 0 r1 2.39 -48.1 | 8001 pts) | Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Str 10.000000 M Auto M |
| Res BW G G G G G G G G G G G G G G G G G G G | 100 kHz | AC 00000 G | Hz PNO: Fast Gain:Low | SB Trig: Free #Atten: 40 | se:INT P Run D dB | Avg Type Avg Hold | ALIGNAUTO :: Log-Pwr >200/200 MIK | 17.1 ms (10:36:22 A TRAC TYN P r1 2.39 -48.1 | 8001 pts) | Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Str 10.000000 M Auto M |
| ic RL enter F 0 dB/div 0 dB/div 0 d 0 dB/div 0 d 0 dB/div 0 dB/ | 100 kHz | AC 00000 G | Hz PNO: Fast Gain:Low | SB Trig: Free #Atten: 40 | se:INT P Run D dB | Avg Type Avg Hold | STATUS | 17.1 ms (10:36:22 A TRAC TY 0 r1 2.39 -48.1 | 8001 pts) | Auto Tur Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G |

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| | rum Analyzer - Swept S | SA | | | | |
|--|--|---|---------------------------------|---|--|--|
| | | | | | | |
| RL | RF 50 Ω A Freq 2.4917500 | | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr | 10:36:32 AMNov 20, 2019 TRACE 1 2 3 4 5 6 | Frequency |
| erner r | req 2.4917500 | PNO: Fast 😱 | Trig: Free Run #Atten: 40 dB | Avg Hold:>200/200 | TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P | |
| | | IFGain:Low | #Atten: 40 dB | Mkr4 9 | 498 652 5 GHz | Auto Tui |
| | Ref Offset 1 dB | | | | -47.309 dBm | |
|) dB/div ^{og} | Ref 20.00 dBr | | | | 41.000 abiii | |
| | | | | | | Center Fre |
| 10.0 | | | | | | 2.491750000 GI |
| | | | | | | |
|).00 | | | | | | Start Fre |
| | | | | | | 2.483500000 GH |
| 0.0 | | | | | | |
| 0.0 | | | | | | |
| | | | | | -22.96 dBm | Stop Fre |
| 0.0 | | | | | | 2.50000000 GI |
| | | | | | | |
| 0.0 | | | | | | CF Ste |
| | | | | | ♦ | 1.650000 Mł Auto Ma |
| 0.0 | Jthan mer man lag | www.anglogelangermangly | www.lynnalloward | ᡊᢇᢣ᠋᠁ᢩᠿᡁᠬᡭᢕ᠇᠋ᢩᡀᡢ᠋ᠯᠰ᠋ᠮᢑ᠇ᡔᢦᠬ | \sim | |
| ľ | | | | | | Freq Offs |
| 0.0 | | | | | | 01 |
| | | | | | | |
| 0.0 | | | | | | |
| | | | | | | |
| | 33500 GHz | | | | top 2.500000 GHz | |
| Res BW | 100 kHz | #VBW | 300 kHz | Sweep | 1.600 ms (601 pts) | |
| SG | | | | STATUS | | |
| gilent Spect | | | | | | |
| | rum Analyzer - Swept S | | | | | |
| RL | RF 50Ω A | C C | SENSE:INT | ALIGN AUTO Avg Type: Log-Pwr | 10:37:05 AM Nov 20, 2019 TRACE 1 2 3 4 5 6 | Frequency |
| RL | | 0000 GHz PN0: Fast | Trig: Free Run | ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 | 10:37:05 AMNov 20, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P | Frequency |
| RL | RF 50 Ω A Freq 14.500000 | c 0000 GHz | | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE M WWWWW DET P P P P P P | |
| RL enter F | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | 10:37:05 AMNov 20, 2019 TRACE 12 3 4 5 0 TYPE MUNICIPAL DET P P P P P kr1 26.491 GHz -37.948 dBm | |
| RL enter F | RF 50 Ω A Freq 14.500000 | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | |
| enter F | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre |
| enter F | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre |
| enter F | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre |
| enter F | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre 14.50000000 Gł |
| OdB/div | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre 14.50000000 Gł Start Fre |
| enter F | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre 14.50000000 Gł Start Fre |
| enter F 0 dB/div 0 0 0.0 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm | Auto Tur Center Fre 14.50000000 Gi Start Fre 2.50000000 Gi |
| 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz | Auto Tur Center Fre 14.50000000 Gi Start Fre 2.50000000 Gi Stop Fre |
| 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm | Auto Tur Center Fre 14.50000000 Gi Start Fre 2.50000000 Gi Stop Fre |
| enter F odB/div og 0.00 0.00 0.00 0.00 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run | Avg Type: Log-Pwr Avg Hold: 10/10 | IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm | Auto Tur Center Fre 14.50000000 GF Start Fre 2.500000000 GF Stop Fre 26.50000000 GF |
| enter F odB/div og 0.00 0.00 0.00 0.00 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 Ml | IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH |
| enter F odB/div og 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | m | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm | Auto Tur Center Fra 14.50000000 Gł Start Fra 2.50000000 Gł Stop Fra 26.50000000 Gł CF Sta 2.40000000 Gł |
| enter F odB/div og 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | OOOO GHZ PNO: Fast IFGain:Low | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm | Auto Tur Center Fre 14.50000000 Gł Start Fre 2.50000000 Gł Stop Fre 26.50000000 Gł CF Ste 2.40000000 Gł |
| RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | m | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm | Auto Tur Center Fre 14.50000000 GH 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi |
| RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | m | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm | Auto Tur Center Fra 14.50000000 Gi Start Fra 2.50000000 Gi Stop Fra 26.50000000 Gi Auto Mi |
| RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | m | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi Freq Offs |
| | RF 50Ω A Freq 14.500000 Ref Offset 1 dB | m | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma |
| RL enter F 0 dB/div 0 d </td <td>RF 50 Ω A ireq 14.500000 A Ref Offset 1 dB Ref 20.00 dBr A Ref 20.00 dBr A A</td> <td>m</td> <td>Trig: Free Run #Atten: 40 dB</td> <td>Avg Type: Log-Pwr Avg Hold: 10/10 MI</td> <td>TRACE 12.9.4.5 6 Type P.P.P.P.P.P. kr1 26.4.91 GHZ -37.948 dBm -37.948 -22.96 dBm -22.96 dBm -22.96 dBm -22.96 dBm</td> <td>Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi</td> | RF 50 Ω A ireq 14.500000 A Ref Offset 1 dB Ref 20.00 dBr A Ref 20.00 dBr A A | m | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 MI | TRACE 12.9.4.5 6 Type P.P.P.P.P.P. kr1 26.4.91 GHZ -37.948 dBm -37.948 -22.96 dBm -22.96 dBm -22.96 dBm -22.96 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi |
| RL enter F 0 dB/div 0 d </td <td>RF 0ffset 1 dB Ref 0ffset 1 dB Ref 20.00 dBr</td> <td>C 000 GHz PNO: Fast IFGain:Low M Ultimote to the lattice of the lattice of</td> <td>Trig: Free Run #Atten: 40 dB</td> <td>Avg Type: Log-Pwr Avg Hold: 10/10 M</td> <td>TRACE 1 2 4.5 6 TYPE MAXMANNA MAXMANNA DEP P. P. P. P. P. P. P. kr1 26.491 GHz -37.948 dBm 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96</td> <td>Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma</td> | RF 0ffset 1 dB Ref 0ffset 1 dB Ref 20.00 dBr | C 000 GHz PNO: Fast IFGain:Low M Ultimote to the lattice of | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 M | TRACE 1 2 4.5 6 TYPE MAXMANNA MAXMANNA DEP P. P. P. P. P. P. P. kr1 26.491 GHz -37.948 dBm 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma |
| RL enter F 0 dB/div 9 00 | RF 50 Ω A ireq 14.500000 A Ref Offset 1 dB Ref 20.00 dBr A Ref 20.00 dBr A A | C 000 GHz PNO: Fast IFGain:Low M Ultimote to the lattice of | Trig: Free Run #Atten: 40 dB | Avg Type: Log-Pwr Avg Hold: 10/10 M | TRACE 1.2.4.5.6 TYPE MAXMANNA UPE P.P.P.P.P.P.P. kr1 26.4.91 GHz -37.948 dBm -22.96 dBm -22.96 dBm -22.96 dBm -22.96 dBm -2.2.96 dBm -37.948 dBm -2.2.96 dBm -2.2.96 dBm -37.948 dBm | Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH CF Ste 2.40000000 GH |

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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| Test Requirement: | 47 CFR Part 15C Sectio | n 15.209 and 15.2 | 205 | | | | | | |
|-------------------|---|-------------------------------------|-------------------|---------------|-----------------------------|--|--|--|--|
| Test Method: | ANSI C63.10 :2013 Section 11.12 | | | | | | | | |
| Test Site: | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) | | | | | | | | |
| | Frequency | Detector | Detector RBW | | Remark | | | | |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak | | | | |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average | | | | |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | | | |
| Pagaivar Satur: | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak | | | | |
| Receiver Setup: | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average | | | | |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak | | | | |
| | 30MHz-1GHz | Quasi-peak | 100 kHz | 300kHz | Quasi-peak | | | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | | | | |
| | Above IGHZ | Peak | 1MHz | 10Hz | Average | | | | |
| | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) | | | | |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 | | | | |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 | | | | |
| | 1.705MHz-30MHz | 30 | - | - | 30 | | | | |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 | | | | |
| Limit: | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 | | | | |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 | | | | |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 | | | | |
| | Above 1GHz | 500 | 54.0 | Average | 3 | | | | |
| | Remark: 15.35(b), Unles emissions is 20dB above to the equipment under radiated by the device. | e the maximum pe | ermitted ave | rage emission | limit applicable | | | | |

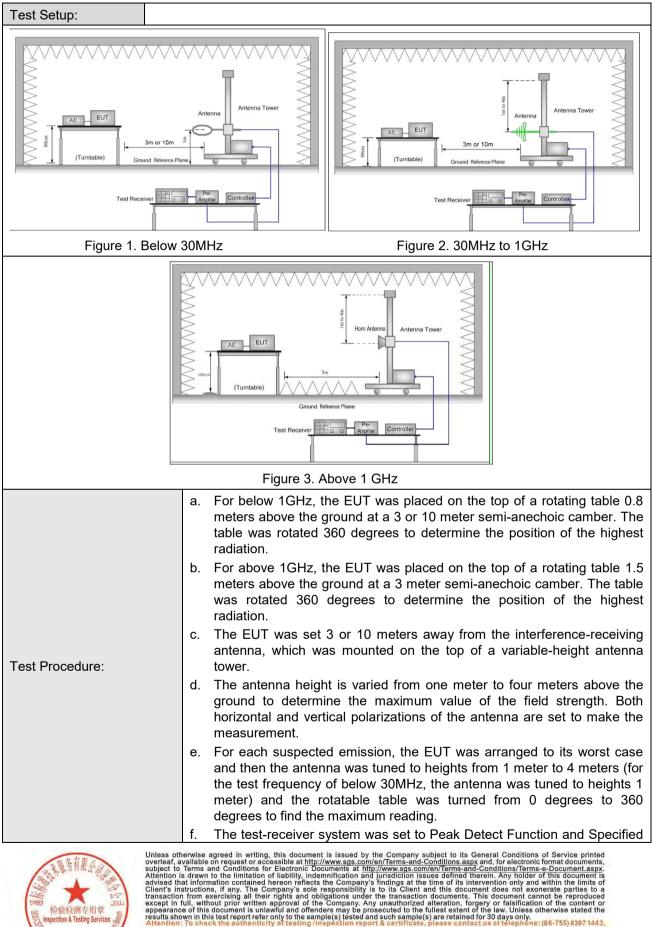
4.9 Radiated Spurious Emission

SG



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SGS

SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

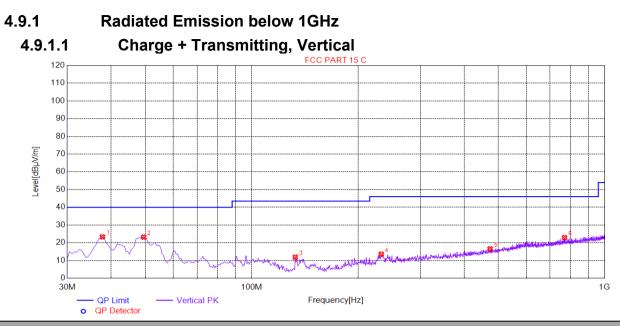
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| | Bandwidth with Maximum Hold Mode. |
|------------------------|--|
| | g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel (2402MHz),the middle channel (2400HHz),the Highest channel (2480MHz) |
| | i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. |
| | j. Repeat above procedures until all frequencies measured was complete. |
| Eveloratory Test Made | Transmitting with GFSK modulation. |
| Exploratory Test Mode: | Charge + Transmitting mode. |
| | Transmitting with GFSK modulation. |
| Final Test Mode: | Pretest the EUT at Charge + Transmitting mode, |
| Tinal restille. | For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 5.10 for details. |
| Test Results: | Pass |



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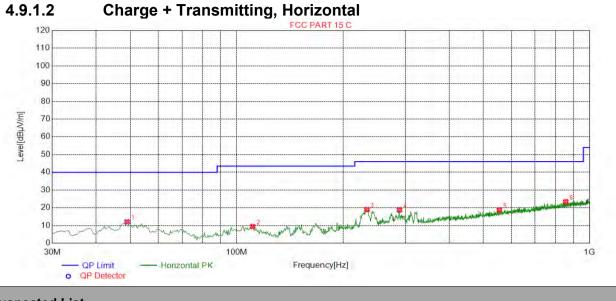


| Suspe | Suspected List | | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 37.7639 | 23.34 | -31.88 | 40.00 | 16.66 | 100 | 125 | Vertical | | | |
| 2 | 49.4097 | 23.15 | -30.18 | 40.00 | 16.85 | 100 | 294 | Vertical | | | |
| 3 | 132.8714 | 11.86 | -34.90 | 43.50 | 31.64 | 100 | 37 | Vertical | | | |
| 4 | 232.8314 | 13.55 | -29.86 | 46.00 | 32.45 | 100 | 225 | Vertical | | | |
| 5 | 473.9970 | 16.57 | -23.34 | 46.00 | 29.43 | 100 | 206 | Vertical | | | |
| 6 | 769.9950 | 22.93 | -17.25 | 46.00 | 23.07 | 100 | 344 | Vertical | | | |



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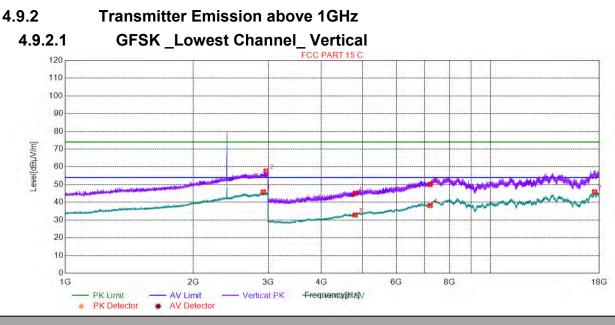


| Suspe | ected List | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 48.9245 | 12.03 | -30.19 | 40.00 | 27.97 | 100 | 66 | Horizontal |
| 2 | 111.0355 | 9.42 | -31.85 | 43.50 | 34.08 | 100 | 358 | Horizontal |
| 3 | 233.8019 | 18.98 | -29.82 | 46.00 | 27.02 | 100 | 219 | Horizontal |
| 4 | 289.1196 | 18.77 | -28.16 | 46.00 | 27.23 | 100 | 16 | Horizontal |
| 5 | 555.0325 | 18.71 | -21.31 | 46.00 | 27.29 | 100 | 16 | Horizontal |
| 6 | 855.8829 | 23.41 | -15.94 | 46.00 | 22.59 | 100 | 304 | Horizontal |



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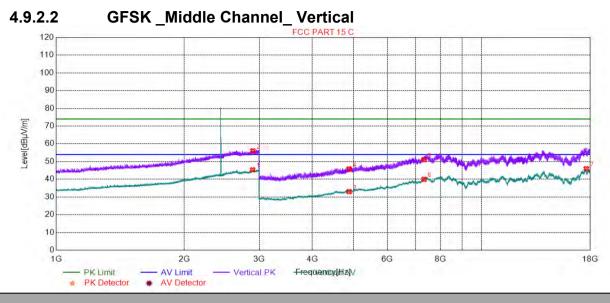


| Suspe | Suspected List | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 2922.9807 | 45.85 | 11.40 | 54.00 | 8.15 | 150 | 288 | Vertical | | |
| 2 | 2966.4916 | 57.62 | 11.38 | 74.00 | 16.38 | 150 | 179 | Vertical | | |
| 3 | 4804.0000 | 32.83 | -14.99 | 54.00 | 21.17 | 150 | 292 | Vertical | | |
| 4 | 4804.0000 | 45.03 | -14.99 | 74.00 | 28.97 | 150 | 127 | Vertical | | |
| 5 | 7206.0000 | 50.05 | -7.05 | 74.00 | 23.95 | 150 | 18 | Vertical | | |
| 6 | 7206.0000 | 38.21 | -7.05 | 54.00 | 15.79 | 150 | 18 | Vertical | | |
| 7 | 17544.9772 | 45.88 | 0.93 | 54.00 | 8.12 | 150 | 242 | Vertical | | |



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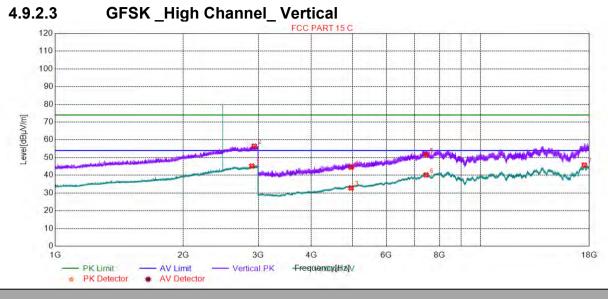


| Suspe | Suspected List | | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 2895.4739 | 45.32 | 11.38 | 54.00 | 8.68 | 150 | 191 | Vertical | | |
| 2 | 2900.4751 | 56.07 | 11.41 | 74.00 | 17.93 | 150 | 2 | Vertical | | |
| 3 | 4882.0000 | 33.07 | -14.64 | 54.00 | 20.93 | 150 | 73 | Vertical | | |
| 4 | 4882.0000 | 45.88 | -14.64 | 74.00 | 28.12 | 150 | 127 | Vertical | | |
| 5 | 7323.0000 | 51.06 | -6.15 | 74.00 | 22.94 | 150 | 237 | Vertical | | |
| 6 | 7323.0000 | 39.99 | -6.15 | 54.00 | 14.01 | 150 | 45 | Vertical | | |
| 7 | 17620.9810 | 45.99 | 1.08 | 54.00 | 8.01 | 150 | 292 | Vertical | | |



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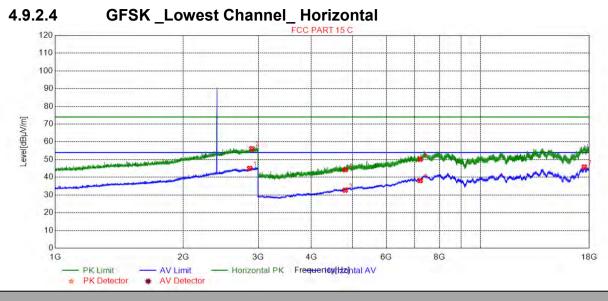


| Suspe | ected List | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2898.4746 | 45.20 | 11.40 | 54.00 | 8.80 | 150 | 154 | Vertical |
| 2 | 2937.4844 | 56.50 | 11.39 | 74.00 | 17.50 | 150 | 316 | Vertical |
| 3 | 4960.0000 | 32.85 | -14.23 | 54.00 | 21.15 | 150 | 18 | Vertical |
| 4 | 4960.0000 | 44.57 | -14.23 | 74.00 | 29.43 | 150 | 332 | Vertical |
| 5 | 7440.0000 | 51.64 | -5.89 | 74.00 | 22.36 | 150 | 18 | Vertical |
| 6 | 7440.0000 | 40.17 | -5.89 | 54.00 | 13.83 | 150 | 358 | Vertical |
| 7 | 17523.9762 | 45.77 | 0.66 | 54.00 | 8.23 | 150 | 42 | Vertical |



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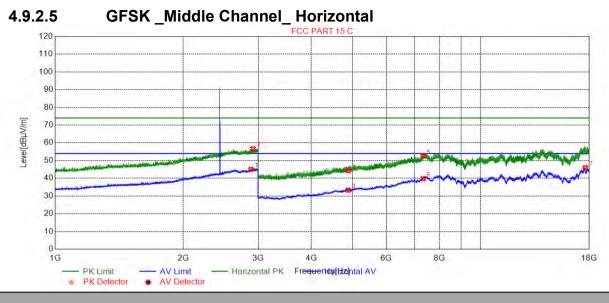


| Suspe | ected List | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2864.4661 | 45.02 | 11.14 | 54.00 | 8.98 | 150 | 279 | Horizontal |
| 2 | 2897.9745 | 56.15 | 11.39 | 74.00 | 17.85 | 150 | 58 | Horizontal |
| 3 | 4804.0000 | 32.76 | -14.99 | 54.00 | 21.24 | 150 | 49 | Horizontal |
| 4 | 4804.0000 | 44.30 | -14.99 | 74.00 | 29.70 | 150 | 295 | Horizontal |
| 5 | 7206.0000 | 50.22 | -7.05 | 74.00 | 23.78 | 150 | 212 | Horizontal |
| 6 | 7206.0000 | 38.14 | -7.05 | 54.00 | 15.86 | 150 | 267 | Horizontal |
| 7 | 17521.9761 | 45.81 | 0.63 | 54.00 | 8.19 | 150 | 242 | Horizontal |



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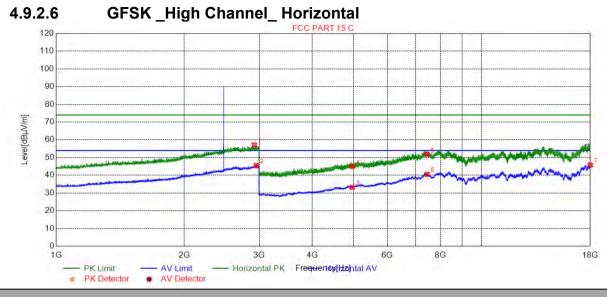
| Suspe | ected List | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2885.9715 | 45.00 | 11.30 | 54.00 | 9.00 | 150 | 18 | Horizontal |
| 2 | 2916.4791 | 56.71 | 11.40 | 74.00 | 17.29 | 150 | 153 | Horizontal |
| 3 | 4882.0000 | 33.32 | -14.64 | 54.00 | 20.68 | 150 | 360 | Horizontal |
| 4 | 4882.0000 | 44.27 | -14.64 | 74.00 | 29.73 | 150 | 346 | Horizontal |
| 5 | 7323.0000 | 52.54 | -6.15 | 74.00 | 21.46 | 150 | 360 | Horizontal |
| 6 | 7323.0000 | 39.78 | -6.15 | 54.00 | 14.22 | 150 | 182 | Horizontal |
| 7 | 17611.4806 | 45.96 | 1.33 | 54.00 | 8.04 | 150 | 242 | Horizontal |



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Suspected List

| ouspe | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2922.9807 | 57.14 | 11.40 | 74.00 | 16.86 | 150 | 266 | Horizontal |
| 2 | 2951.4879 | 45.51 | 11.38 | 54.00 | 8.49 | 150 | 306 | Horizontal |
| 3 | 4960.0000 | 33.15 | -14.23 | 54.00 | 20.85 | 150 | 263 | Horizontal |
| 4 | 4960.0000 | 45.02 | -14.23 | 74.00 | 28.98 | 150 | 127 | Horizontal |
| 5 | 7440.0000 | 51.73 | -5.89 | 74.00 | 22.27 | 150 | 236 | Horizontal |
| 6 | 7440.0000 | 40.51 | -5.89 | 54.00 | 13.49 | 150 | 72 | Horizontal |
| 7 | 17998.4999 | 45.76 | -0.36 | 54.00 | 8.24 | 150 | 291 | Horizontal |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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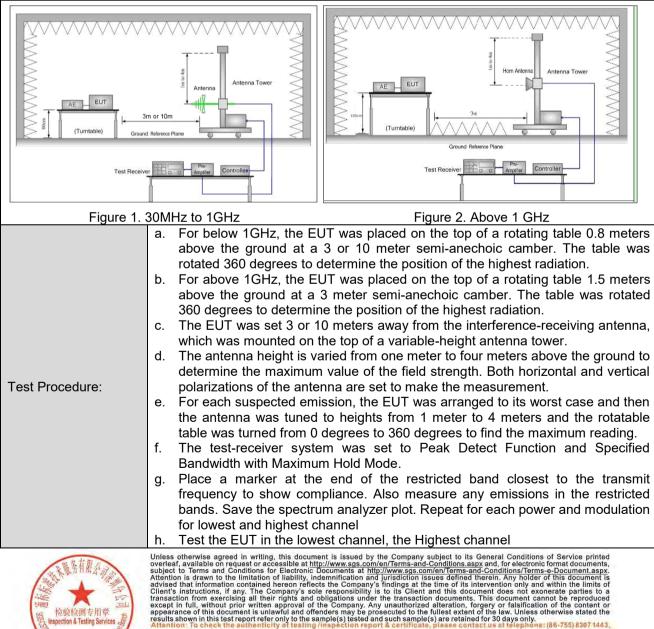
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755)26012053 f (86-755)26710594 sgs.com

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Restricted bands around fundamental frequency 4.10

| | | | - | | | | | | |
|-------------------|------------------------|---|------------------|--|--|--|--|--|--|
| Test Requirement: | 47 CFR Part 15C Sectio | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | | |
| Test Method: | ANSI C63.10: 2013 Sec | ANSI C63.10: 2013 Section 11.12 | | | | | | | |
| Test Site: | Measurement Distance: | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) | | | | | | | |
| | Frequency | Limit (dBuV/m @3m) | Remark | | | | | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak Value | | | | | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak Value | | | | | | |
| Limit: | 216MHz-960MHz | 46.0 | Quasi-peak Value | | | | | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | | |
| | Above 1GHz | 54.0 | Average Value | | | | | | |
| | Above IGHZ | 74.0 | Peak Value | | | | | | |
| | | | | | | | | | |

Test Setup:





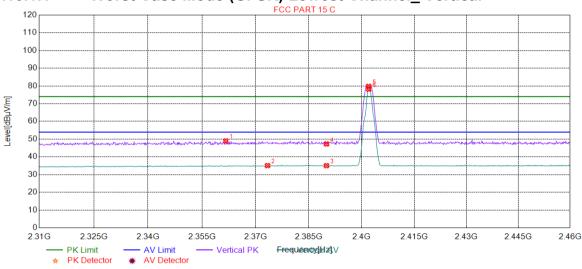
e: (86-755) 8307 1443. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn sgs.china@sgs.com 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



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| | The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. Repeat above procedures until all frequencies measured was complete. |
|------------------------|--|
| Exploratory Test Mode: | Transmitting with GFSK modulation. Charge + Transmitting mode. |
| Final Test Mode: | Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 5.10 for details. |
| Test Results: | Pass |

4.10.1 Test plots



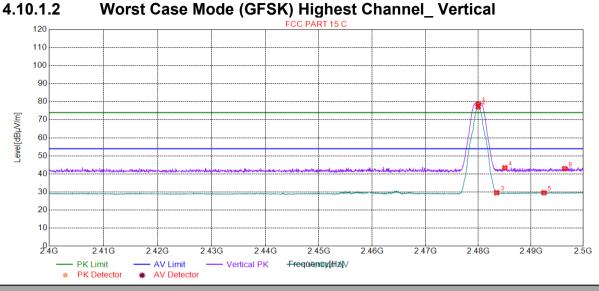
4.10.1.1 Worst Case Mode (GFSK) Lowest Channel_ Vertical

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 2361.6517 | 49.01 | 9.10 | 74.00 | 24.99 | 150 | 32 | Vertical | |
| 2 | 2373.3634 | 35.10 | 9.14 | 54.00 | 18.90 | 150 | 184 | Vertical | |
| 3 | 2390.0000 | 35.06 | 9.20 | 54.00 | 18.94 | 150 | 239 | Vertical | |
| 4 | 2390.0000 | 47.29 | 9.20 | 74.00 | 26.71 | 150 | 154 | Vertical | |
| 5 | 2402.0000 | 79.78 | 9.24 | 74.00 | -5.78 | 150 | 310 | Vertical | |
| 6 | 2402.0000 | 78.20 | 9.24 | 54.00 | -24.20 | 150 | 313 | Vertical | |



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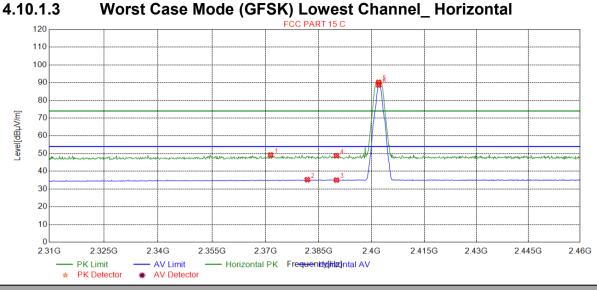


Suspected List Level Freq. Factor Limit Margin Height Angle NO. Polarity [MHz] $[dB\mu V/m]$ [dB] [dBµV/m] [dB] [cm] [°] 1 2480.0000 78.61 9.49 74.00 -4.61 150 80 Vertical 2 80 Vertical 2480.0000 77.19 9.49 54.00 -23.19 150 3 2483.5000 29.60 9.50 54.00 24.40 150 314 Vertical 4 2485.0425 43.36 9.50 74.00 30.64 150 57 Vertical 5 2492.4962 29.57 9.53 54.00 24.43 150 123 Vertical 6 42.90 74.00 150 325 2496.4482 9.54 31.10 Vertical



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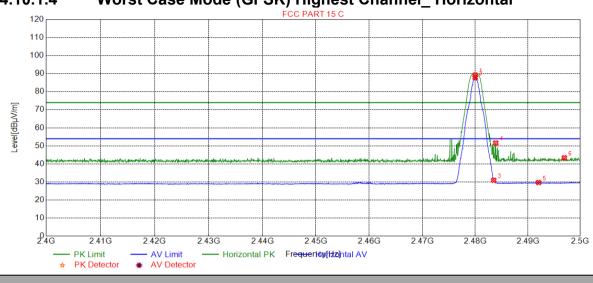


| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 2371.4114 | 49.21 | 9.14 | 74.00 | 24.79 | 150 | 121 | Horizontal | |
| 2 | 2381.7718 | 35.25 | 9.17 | 54.00 | 18.75 | 150 | 38 | Horizontal | |
| 3 | 2390.0000 | 35.03 | 9.20 | 54.00 | 18.97 | 150 | 212 | Horizontal | |
| 4 | 2390.0000 | 48.78 | 9.20 | 74.00 | 25.22 | 150 | 101 | Horizontal | |
| 5 | 2402.0000 | 90.21 | 9.24 | 74.00 | -16.21 | 150 | 191 | Horizontal | |
| 6 | 2402.0000 | 88.65 | 9.24 | 54.00 | -34.65 | 150 | 187 | Horizontal | |



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4.10.1.4 Worst Case Mode (GFSK) Highest Channel Horizontal

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 2480.0000 | 89.20 | 9.49 | 74.00 | -15.20 | 150 | 211 | Horizontal | |
| 2 | 2480.0000 | 87.81 | 9.49 | 54.00 | -33.81 | 150 | 211 | Horizontal | |
| 3 | 2483.5000 | 30.96 | 9.50 | 54.00 | 23.04 | 150 | 223 | Horizontal | |
| 4 | 2483.8919 | 51.61 | 9.50 | 74.00 | 22.39 | 150 | 180 | Horizontal | |
| 5 | 2492.0460 | 29.73 | 9.52 | 54.00 | 24.27 | 150 | 250 | Horizontal | |
| 6 | 2496.9485 | 43.41 | 9.54 | 74.00 | 30.59 | 150 | 223 | Horizontal | |

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor All Modes have been tested, but only the worst case data displayed in this report.



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5 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty | | |
|-----|---------------------------------|-------------------------|--|--|
| 1 | Total RF power, conducted | ±0.75dB | | |
| 2 | RF power density, conducted | ±2.84dB | | |
| 3 | Spurious emissions, conducted | ±0.75dB | | |
| 4 | Radiated Spurious emission test | ±4.5dB (30MHz-1GHz) | | |
| 4 | Radiated Spundus emission test | ±4.8dB (1GHz-25GHz) | | |
| 5 | Conduct emission test | ±3.12 dB(9KHz- 30MHz) | | |
| 6 | Temperature test | ±1°C | | |
| 7 | Humidity test | ±3% | | |
| 8 | DC and low frequency voltages | ±0.5% | | |



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SGS SG

SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

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6 Equipment List

| Conducted Emission | | | | | | | | | |
|--|---------------------------------------|------------------|----------------|--------------|------------------------|--|--|--|--|
| Toot Equipment | Manufacturer | Model No. | Inventory No. | Cal. date | Cal.Duedate | | | | |
| Test Equipment | Manufacturer | Wodel No. | inventory No. | (yyyy-mm-dd) | (yyyy-mm-dd) | | | | |
| Shielding Room | ZhongYu Electron | GB-88 | SEM001-06 | 2017/5/10 | 2020/5/9 | | | | |
| LISN | Rohde & Schwarz | ENV216 | SEM007-01 | 2019/7/14 | 2020/7/14 | | | | |
| LISN | ETS-LINDGREN | Feb-16 | SEM007-02 | 2019/4/1 | 2020/3/31 | | | | |
| Measurement Software | AUDIX | e3 V5.4.1221d | N/A | N/A | N/A | | | | |
| Coaxial Cable | SGS | N/A | SEM024-01 | 2019/6/12 | 2020/6/11 | | | | |
| 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T2-02 | EMC0122 | 2019/2/11 | 2020/2/10 | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | SEM004-02 | 2019/3/2 | 2020/3/1 | | | | |
| | | | | · | | | | | |
| | RF co | onducted test | | | | | | | |
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date | Cal.Duedate | | | | |
| rest Equipment | Wallulacturei | Woder No. | inventory No. | (yyyy-mm-dd) | (yyyy-mm-dd) | | | | |
| DC Power Supply | Agilent Technologies Inc | 66311B | W009-09 | 2019/7/15 | 2020/7/15 | | | | |
| Signal Analyzer | Rohde & Schwarz | FSV | W025-05 | 2019/1/13 | 2020/1/12 | | | | |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2019/6/12 | 2020/6/11 | | | | |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A | | | | |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2019/7/14 | 2020/7/14 | | | | |
| Temperature Chamber | GIANT FORCE | ICT-150-40-CP-AR | W027-03 | 2019/10/27 | 2020/10/27 | | | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2019/7/14 | 2020/7/14 | | | | |
| | RE | in Chamber | | | | | | | |
| To at Equipment | Manufacturan | | las contons Mo | Cal. date | Cal.Due date | | | | |
| Test Equipment | Manufacturer | woder No. | Inventory No. | (yyyy-mm-dd) | (yyyy-mm-dd) | | | | |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017/8/5 | 2020/8/4 | | | | |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A | | | | |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2019/6/12 | 2020/6/11 | | | | |
| MXE EMI Receiver (20Hz- 8.4GHz) | Agilent Technologies | N9038A | SEM004-05 | 2019/7/14 | 2020/7/14 | | | | |
| BiConiLog Antenna (26- 3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2017/6/27 | 2020/6/26 | | | | |
| Pre-amplifier (0.1-1.3GHz) | Agilent Technologies | 8447D | SEM005-01 | 2019/3/2 | 2020/3/1 | | | | |
| | | | | | | | | | |
| | RE | in Chamber | | | | | | | |
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date | Cal.Due date | | | | |
| | | | | (yyyy-mm-dd) | (yyyy-mm-dd) | | | | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018/3/13 | 2021/3/12 | | | | |
| Measurement Software | AUDIX | e3V8.2014-6-27 | N/A | N/A | N/A | | | | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2019/6/12 | 2020/6/11 | | | | |
| EXA Signal Analyzer (10Hz- 26.5GHz) | Agilent Technologies Inc | N9010A | SEM004-09 | 2019/3/12 | 2020/3/11 | | | | |
| BiConiLog Antenna (26- | ETO Lin daman | 3142C | SEM003-01 | 2017/6/27 | 2020/6/26 | | | | |
| 3000MHz) | ETS-Lindgren | 51420 | CEMODO OT | | | | | | |
| 3000MHz) Horn Antenna (0.8-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018/4/13 | 2021/4/12 2020/7/14 | | | | |



Low Noise Amplifier(100MHz-

18GHz)

Horn Antenna (15-40GHz)

Pre-amplifier(18-26GHz)

Band filter

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SEM005-05

SEM003-15

SEM005-17

SEM023-01

BDLNA-0118-

352810

BBHA 9170

CH14-H052

N/A

Black Diamond Series

Schwarzbeck

Rohde & Schwarz

N/A

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2019/9/3

2017/10/17

2019/3/2

N/A

2020/9/2

2020/10/16

2020/3/1

N/A



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| RE in Chamber | | | | | | | | | |
|--|-----------------|-----------------|---------------|---------------------------|-------------------------------|--|--|--|--|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) | | | | |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018/3/31 | 2021/3/30 | | | | |
| EMI Test Receiver (9k-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2019/3/2 | 2020/3/1 | | | | |
| Trilog-Broadband Antenna(25M- 2GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2018/3/15 | 2020/3/14 | | | | |
| Pre-amplifier (9k-1GHz) | Sonoma | 310N | SEM005-03 | 2019/3/12 | 2020/3/11 | | | | |
| Loop Antenna (9kHz-30MHz) | ETS-Lindgren | 6502 | SEM003-08 | 2017/8/22 | 2020/8/21 | | | | |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A | | | | |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2019/6/12 | 2020/6/11 | | | | |

7 Photographs for Set-up

Refer to Appendix A - Photographs of Set-Up for ZR/2019/B0004.

The End



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