

TEST REPORT

| Report No.: | BCTC2307909509-2E | | | | | |
|--------------------------|------------------------------------------|--|--|--|--|--|
| Applicant: | SHENZHEN NST INDUSTRY AND TRADE CO., LTD | | | | | |
| Product Name: | 10.1 inch tablet PC | | | | | |
| Model/Type reference: | T10 | | | | | |
| Tested Date: | 2023-07-31 to 2023-08-07 | | | | | |
| Issued Date: | 2023-08-07 | | | | | |
| | | | | | | |
| She | nzhen BCTC Testing Co., Ltd. | | | | | |
| | | | | | | |
| No.: BCTC/RF-EMC-007 | Page: 1 of 79 | | | | | |



FCC ID: 2AAMS-SGINT10V2

| Product Name: | 10.1 inch tablet PC |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Trademark: | N/A |
| Model/Type Reference: | T10 M1045T |
| Prepared For: | SHENZHEN NST INDUSTRY AND TRADE CO., LTD |
| Address: | 3-4/F, Bldg 1, Hongbang Intelligent Technology Park,No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen China |
| Manufacturer: | SHENZHEN NST INDUSTRY AND TRADE CO., LTD |
| Address: | 3-4/F, Bldg 1, Hongbang Intelligent Technology Park,No.30 Cuibao Road, Baolong Street, Longgang District, Shenzhen China |
| Prepared By: | Shenzhen BCTC Testing Co., Ltd. |
| Address: | 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China |
| Sample Received Date: | 2023-07-31 |
| Sample tested Date: | 2023-07-31 to 2023-08-07 |
| Issue Date: | 2023-08-07 |
| Report No.: | BCTC2307909509-2E |
| Test Standards: | FCC Part15.247 ANSI C63.10-2013 |
| Test Results: | PASS |
| Remark: | This is Bluetooth Classic radio test report. |

Tested by:

Brave Zeng/ Project Handler

Approved by

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp.This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full.The tested sample(s) and the sample information are provided by the client.

Page: 2 of 7



Table Of Content

| Tes | at Report Declaration | Page |
|------------|-------------------------------------------------------------------|---------------------------------------|
| 1. | Version | 5 |
| 2. | Test Summary | |
| 3. | Measurement Uncertainty | 7 |
| 4. | Product Information And Test Setup | 8 |
| 4.1 | Product Information | |
| 4.2 | Test Setup Configuration | 9 |
| 4.3 | | |
| 4.4 | Channel List | 10 |
| 4.5 | | |
| 4.6 | Table Of Parameters Of Text Software Setting | 10 |
| 5. | Test Facility And Test Instrument Used | 11 |
| 5.1 | Test Facility | 11 |
| 5.2 | Test Instrument Used | 11 |
| 6. | Conducted Emissions | 13 |
| 6.1 | Block Diagram Of Test Setup | 13 |
| 6.2 | | |
| 6.3 | I | |
| 6.4 | 1 5 | |
| 6.5 | | |
| 7. | Radiated emissions | |
| 7.1 | Block Diagram Of Test Setup | |
| 7.2 | | |
| 7.3 | | |
| 7.4 | | |
| 7.5 | | |
| 8. | Radiated Band Emission Measurement And Restricted Bands Of Operat | |
| 8.1 | Block Diagram Of Test Setup | |
| 8.2 | | |
| 8.3 | | |
| 8.4 8.5 | | ZƏ |
| | Spurious RF Conducted Emissions | ∠0 27 |
| 9. 9.1 | Block Diagram Of Test Setup | |
| 9.1 | Limit | ∠ı 27 |
| 9.3 | Test procedure | ∠r 27 |
| 9.4 | Test Result | 27 28 |
| 10. | 20 dB Bandwidth | 20 <u>/</u> 10 |
| 10. | | |
| 10. | 2 Limit | |
| 10.3 | 3 Test procedure | |
| 10.4 | | |
| 11. | | <u>-</u> 5 55 |
| 11. | | |
| 11. | 2 Limit | |
| 11.3 | | |
| 11.4 | | |
| | | · · · · · · · · · · · · · · · · · · · |



| 12. Hopping Channel Separation | 61 |
|----------------------------------|----|
| 12.1 Block Diagram Of Test Setup | 61 |
| 12.2 Limit | 61 |
| 12.3 Test procedure | 61 |
| 12.4 Test Result | 61 |
| 13. Number Of Hopping Frequency | 67 |
| 13.1 Block Diagram Of Test Setup | |
| 13.2 Limit | |
| 13.3 Test procedure | 67 |
| 13.4 Test Result | 67 |
| 14. Dwell Time | 70 |
| 14.1 Block Diagram Of Test Setup | 70 |
| 14.2 Limit | 70 |
| 14.3 Test procedure | 70 |
| 14.4 Test Result | |
| 15. Antenna Requirement | 76 |
| 15.1 Limit | 76 |
| 15.2 Test Result | 76 |
| 16. EUT Photographs | 77 |
| 17. EUT Test Setup Photographs | 78 |
| | |

(Note: N/A Means Not Applicable)

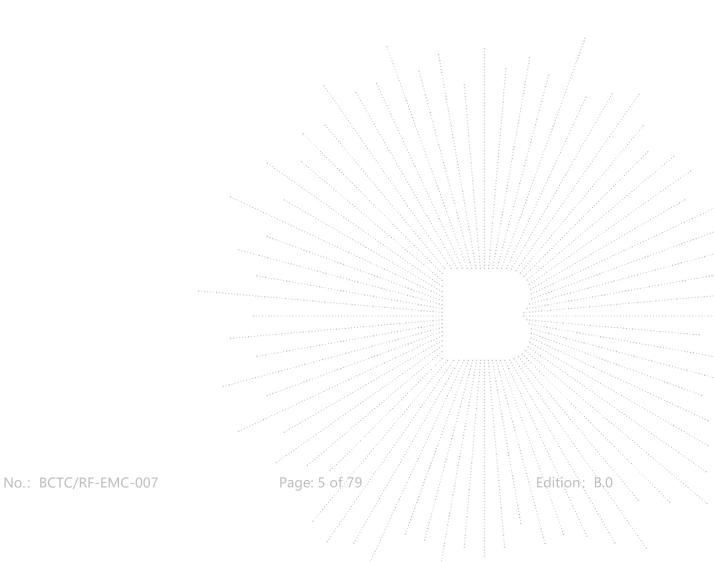
Page: 4 of 79

Edition: B.0



1. Version

| Report No. | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2307909509-2E | 2023-08-07 | Original | Valid |
| | | | |





2. Test Summary

The Product has been tested according to the following specifications:

| No. | Test Parameter | Clause No | Results |
|-----|---------------------------------------------|-----------------------------------|---------|
| 1 | Conducted emission AC power port | §15.207 | PASS |
| 2 | Conducted peak output power for FHSS | §15.247(b)(1) | PASS |
| 3 | 20dB Occupied bandwidth | §15.247(a)(1) | PASS |
| 4 | Hopping channel separation | §15.247(a)(1) | PASS |
| 5 | Number of hopping frequencies | §15.247(a)(1)(iii) | PASS |
| 6 | Dwell Time | §15.247(a)(1)(iii) | PASS |
| 7 | Spurious RF conducted emissions | §15.247(d) | PASS |
| 8 | Band edge | §15.247(d) | PASS |
| 9 | Spurious radiated emissions for transmitter | §15.247(d) & §15.209 & §15.205 | PASS |
| 10 | Antenna Requirement | 15.203 | PASS |

No.: BCTC/RF-EMC-007

Page: 6 of 79

Edition: B.0



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item | Uncertainty |
|-----|----------------------------------------------------|-------------|
| 1 | 3m chamber Radiated spurious emission(30MHz-1GHz) | U=4.3dB |
| 2 | 3m chamber Radiated spurious emission(9KHz-30MHz) | U=3.7dB |
| 3 | 3m chamber Radiated spurious emission(1GHz-18GHz) | U=4.5dB |
| 4 | 3m chamber Radiated spurious emission(18GHz-40GHz) | U=3.34dB |
| 5 | Conducted Emission (150kHz-30MHz) | U=3.20dB |
| 6 | Conducted Adjacent channel power | U=1.38dB |
| 7 | Conducted output power uncertainty Above 1G | U=1.576dB |
| 8 | Conducted output power uncertainty below 1G | U=1.28dB |
| 9 | humidity uncertainty | U=5.3% |
| 10 | Temperature uncertainty | U=0.59°C |



4. Product Information And Test Setup

4.1 Product Information

| Model/Type reference: | T10 M1045T |
|-----------------------|----------------------------------------------------------------------------------|
| Model differences: | All the model are the same circuit and RF module, except model names. |
| Hardware Version: | P863 WT_P863_W_8183_BJJ_MB_WIFI_V2.2_20230509 |
| Software Version: | N/A |
| Bluetooth Version: | 5.0 |
| Operation Frequency: | 2402-2480MHz |
| Type of Modulation: | GFSK, π/ 4 DQPSK, 8DPSK |
| Number Of Channel: | 79CH |
| Antenna installation: | Internal antenna |
| Antenna Gain: | 1.09 dBi |
| Ratings: | DC 5V from adapter |
| Adapter: | MOEDL: MK050200-T10USU INPUT: 100-240V ~50-60Hz 0.5A Max OUTPUT: 5.0V 2.0A |



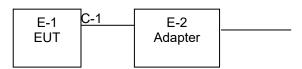
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

| No. | Device Type | Brand | Model | Series No. | Note |
|-----|---------------------|-------|-----------------|------------|-----------|
| E-1 | 10.1 inch tablet PC | N/A | T10 | M1045T | EUT |
| E-2 | Adapter | N/A | MK050200-T10USU | N/A | Auxiliary |

| ltem | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|---------------------|
| C-1 | N/A | N/A | 0.3M | DC cable unshielded |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

Page: 9 of 79



4.4 Channel List

| СН | Frequency (MHz) | СН | Frequency (MHz) | СН | Frequency (MHz) | СН | Frequency (MHz) |
|----|--------------------|----|--------------------|----|--------------------|----|--------------------|
| 0 | 2402 | 1 | 2403 | 2 | 2404 | 3 | 2405 |
| 4 | 2406 | 5 | 2407 | 6 | 2408 | 7 | 2409 |
| 8 | 2410 | 9 | 2411 | 10 | 2412 | 11 | 2413 |
| 12 | 2414 | 13 | 2415 | 14 | 2416 | 15 | 2417 |
| 16 | 2418 | 17 | 2419 | 18 | 2420 | 19 | 2421 |
| 20 | 2422 | 21 | 2423 | 22 | 2424 | 23 | 2425 |
| 24 | 2426 | 25 | 2427 | 26 | 2428 | 27 | 2429 |
| 28 | 2430 | 29 | 2431 | 30 | 2432 | 31 | 2433 |
| 32 | 2434 | 33 | 2435 | 34 | 2436 | 35 | 2437 |
| 36 | 2438 | 37 | 2439 | 38 | 2440 | 39 | 2441 |
| 40 | 2442 | 41 | 2443 | 42 | 2444 | 43 | 2445 |
| 44 | 2446 | 45 | 2447 | 46 | 2448 | 47 | 2449 |
| 48 | 2450 | 49 | 2451 | 50 | 2452 | 51 | 2453 |
| 52 | 2454 | 53 | 2455 | 54 | 2456 | 55 | 2457 |
| 56 | 2458 | 57 | 2459 | 58 | 2460 | 59 | 2461 |
| 60 | 2462 | 61 | 2463 | 62 | 2464 | 63 | 2465 |
| 64 | 2466 | 65 | 2467 | 66 | 2468 | 67 | 2469 |
| 68 | 2470 | 69 | 2471 | 70 | 2472 | 71 | 2473 |
| 72 | 2474 | 73 | 2475 | 74 | 2476 | 75 | 2477 |
| 76 | 2478 | 77 | 2479 | 78 | 2480 | 79 | / |

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test Mode | Test mode | Low channel | Middle channel | High channel | | |
|-----------|-------------------------------------------------------|-------------|----------------|--------------|--|--|
| 1 | Transmitting(GFSK) | 2402MHz | 2441MHz | 2480MHz | | |
| 2 | Transmitting(π/ 4 DQPSK) | 2402MHz | 2441MHz | 2480MHz | | |
| 3 | Transmitting(8DPSK) | 2402MHz | 2441MHz | 2480MHz | | |
| 4 | Transmitting (Conducted emission & Radiated emission) | | | | | |

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) Fully-charged battery is used during the test

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| Test software Version | SecureCRT |
|-----------------------|----------------------------|
| Frequency | 2402 MHz 2441 MHz 2480 MHz |
| Parameters | DEF |



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850

FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

| Conducted Emissions Test | | | | | | |
|--------------------------|--------------|-----------------|----------------|--------------|--------------|--|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. | |
| Receiver | R&S | ESR3 | 102075 | May 15, 2023 | May 14, 2024 | |
| LISN | R&S | ENV216 | 101375 | May 15, 2023 | May 14, 2024 | |
| Software | Frad | EZ-EMC | EMC-CON 3A1 | / | / | |
| Attenuator | \ | 10dB DC-6GHz | 1650 | May 15, 2023 | May 14, 2024 | |

| | RF Conducted Test | | | | | |
|-------------------------------------|-------------------|----------------|------------|--------------|--------------|--|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. | |
| Power Metter | Keysight | E4419 | | May 15, 2023 | May 14, 2024 | |
| Power Sensor (AV) | Keysight | E9300A | | May 15, 2023 | May 14, 2024 | |
| Signal Analyzer20kH z-26.5GHz | Keysight | N9020A | MY49100060 | May 15, 2023 | May 14, 2024 | |
| Spectrum Analyzer9kHz- 40GHz | R&S | FSP40 | 100363 | May 15, 2023 | May 14, 2024 | |
| Radio frequency control box | MAIWEI | MW100-RFC B | | ۱ | | |
| Software | MAIWEI | MTS 8310 | ····· | | | |

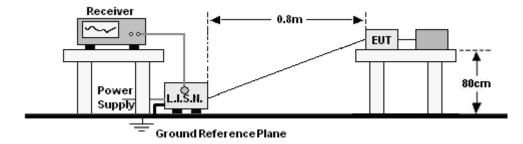


| Radiated Emissions Test (966 Chamber02) | | | | | |
|-----------------------------------------|--------------|----------------------|------------------|---------------|---------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| 966 chamber | SKET | 966 Room | 966 | Nov. 02. 2021 | Nov. 01.2024 |
| Receiver | R&S | ESR3 | 102075 | May 15, 2023 | May 14, 2024 |
| Receiver | R&S | ESRI7 | 100010 | Nov. 08. 2022 | Nov. 07.2023 |
| Amplifier | SKET | LNPA-30M01 G-30 | SK202108200 4 | Nov. 08. 2022 | Nov. 07.2023 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9168 | 1323 | Mar. 06, 2022 | Mar. 05, 2024 |
| Loop Antenna(9KHz -30MHz) | Schwarzbeck | FMZB1519B | 00014 | May 31, 2023 | May 30, 2024 |
| Amplifier | SKET | LAPA_01G18 G-45dB | ١ | May 15, 2023 | May 14, 2024 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1541 | May 31, 2023 | May 30, 2024 |
| Amplifier(18G Hz-40GHz) | MITEQ | TTA1840-35- HG | 2034381 | May 15, 2023 | May 14, 2024 |
| Horn Antenn(18GH z-40GHz) | Schwarzbeck | BBHA9170 | 00822 | May 31, 2023 | May 30, 2024 |
| Spectrum Analyzer9kHz- 40GHz | R&S | FSP40 | 100363 | May 15, 2023 | May 14, 2024 |
| Software | Frad | EZ-EMC | FA-03A2 RE | \ : | Λ |



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

| | Limit (dBuV) | | |
|-----------------|--------------|-----------|--|
| Frequency (MHz) | Quas-peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | |
| 0.50 -5.0 | 56.00 | 46.00 | |
| 5.0 -30.0 | 60.00 | 50.00 | |

Notes:

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

| Receiver Parameters | | Setting | |
|---------------------|--|----------|--------|
| Attenuation | | 10 dB | |
| Start Frequency | | 0.15 MHz | |
| Stop Frequency | | 30 MHz | , , |
| IF Bandwidth | | 9 kHz | 1 |

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

| 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0 | |
| 80 70 FCC/IC 60 70 FCC/IC 50 70 FCC/IC 60 70 FCC/IC 50 70 FCC/IC 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 <tr< td=""><td></td></tr<> | |
| 70 60 FCC/IC 50 7 7 40 7 7 30 7 7 20 7 7 30 7 7 20 7 7 30 7 7 20 7 7 30 7 7 20 7 7 30 7 7 20 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 7 30 7 </td <td></td> | |
| 70 60 FCC/IC 50 FCC/IC 70 FC/IC 7 | |
| 60 FCC/RC 50 FCC/RC 60 FCC/RC 7 FCC/RC 7 FC/RC | |
| 50 | Į ₽ |
| 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | w |
| 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 <td< td=""><td></td></td<> | |
| 20 Image: Contract of the second | |
| 10 Image: Constraint of the second secon | MANN |
| 0 | peak |
| Image: No. Mk. Freq. Level Factor Measure- ment Limit Over MHz MHz MHz MHz MHz MHz MHz MHz 1. All readings are Quasi-Peak and Average values. 2. Factor = Insertion Loss + Cable Loss. 3. Measurement = Reading Level + Correct Factor 4. Over = Measurement - Limit MHz Measure- ment MHz Measure- ment MHz Over 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | - 4/4₩ ^{AVG} |
| Remark: 1. All readings are Quasi-Peak and Average values. 2. Factor = Insertion Loss + Cable Loss. 3. Measurement = Reading Level + Correct Factor 4. Over = Measurement - Limit Reading Correct Measure- No. Mk. Freq. Level Factor MHz dB 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | |
| 1. All readings are Quasi-Peak and Average values. 2. Factor = Insertion Loss + Cable Loss. 3. Measurement = Reading Level + Correct Factor 4. Over = Measurement - Limit Reading Correct Measure- No. Mk. Freq. Level Factor MHz dB 0.2175 29.99 9.61 39.60 62.91 -23.31 | 30.000 |
| 3. Measurement = Reading Level + Correct Factor 4. Over = Measurement - Limit Reading Correct Measure- No. Mk. Freq. Level Factor ment Limit Over MHz dB dBuV dBuV dB D 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | 7 |
| 4. Over = Measurement - Limit Reading Correct Measure- No. Mk. Freq. Level Factor ment Limit Over MHz dB dBuV dBuV dB D 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | |
| No. Mk. Freq. Level Factor ment Limit Over MHz dB dBuV dBuV dB D 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | |
| 1 0.2175 29.99 9.61 39.60 62.91 -23.31 | , en 1 |
| | etector |
| 2 0.2175 12.91 9.61 22.52 52.91 -30.39 | QP |
| | AVG |
| 3 * 0.5370 32.97 9.62 42.59 56.00 -13.41 | QP |
| 4 0.5370 18.27 9.62 27.89 46.00 -18.11 | AVG |
| 5 1.3695 31.90 9.73 41.63 56.00 -14.37 | QP . |
| 6 1.3695 16.14 9.73 25.87 46.00 -20.13 | |
| 7 6.2295 27.49 9.77 37.26 60.00 -22.74 | AVG |
| 8 6.2295 12.26 9.77 22.03 50.00 -27.97 | AVG QP |
| 9 9.7350 34.91 9.67 44.58 60.00 -15.42 | |
| 10 9.7350 20.02 9.67 29.69 50.00 -20.31 | QP |
| 11 20.1390 26.93 9.78 36.71 60.00 -23.29 | QP AVG |
| 12 20.1390 15.02 9.78 24.80 50.00 -25.20 | QP AVG QP |

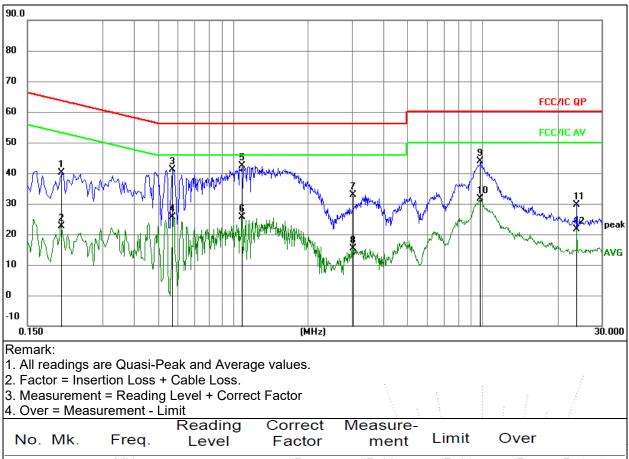
No.: BCTC/RF-EMC-007

Page: 14 of 79

Edition: B.0



| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|-------------|
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode: | Mode 4 | Polarization : | Ν |



| No. | Mk. | Freq. | Level | Factor | ment | Limit | Over | |
|-----|-----|---------|-------|--------|-------|-------|--------|----------|
| | | MHz | | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.2040 | 30.46 | 9.61 | 40.07 | 63.45 | -23.38 | QP |
| 2 | | 0.2040 | 13.01 | 9.61 | 22.62 | 53.45 | -30.83 | AVG |
| 3 | | 0.5701 | 31.54 | 9.62 | 41.16 | 56.00 | -14.84 | QP |
| 4 | | 0.5701 | 16.06 | 9.62 | 25.68 | 46.00 | -20.32 | AVG |
| 5 | * | 1.0824 | 32.54 | 9.73 | 42.27 | 56.00 | -13.73 | QP |
| 6 | | 1.0824 | 15.94 | 9.73 | 25.67 | 46.00 | -20.33 | AVG |
| 7 | | 3.0253 | 23.16 | 9.79 | 32.95 | 56.00 | -23.05 | QP |
| 8 | | 3.0253 | 5.66 | 9.79 | 15.45 | 46.00 | -30.55 | AVG |
| 9 | | 9.7567 | 34.14 | 9.67 | 43.81 | 60.00 | -16.19 | QP |
| 10 | | 9.7567 | 22.02 | 9.67 | 31.69 | 50.00 | -18.31 | AVG |
| 11 | | 23.8878 | 20.00 | 9.75 | 29.75 | 60.00 | -30.25 | QP |
| 12 | | 23.8878 | 11.90 | 9.75 | 21.65 | 50.00 | -28.35 | AVG |
| | | | | | | | | |

No.: BCTC/RF-EMC-007

Page: 15 of 79

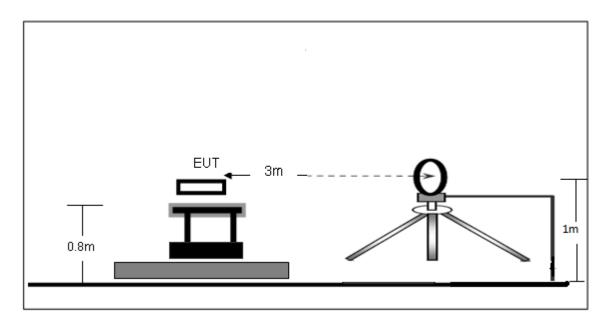
Edition: B.O



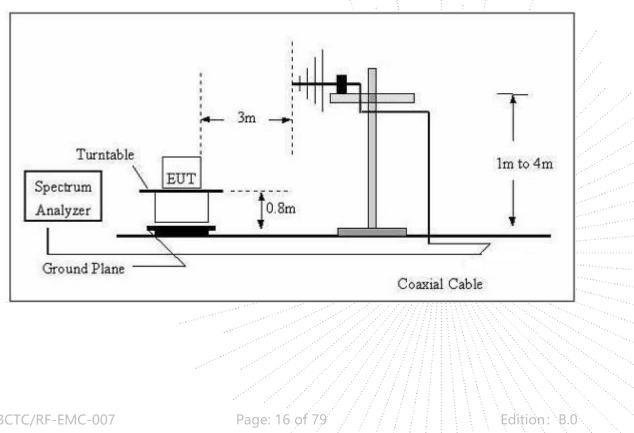
7. **Radiated emissions**

Block Diagram Of Test Setup 7.1

(A) Radiated Emission Test-Up Frequency Below 30MHz

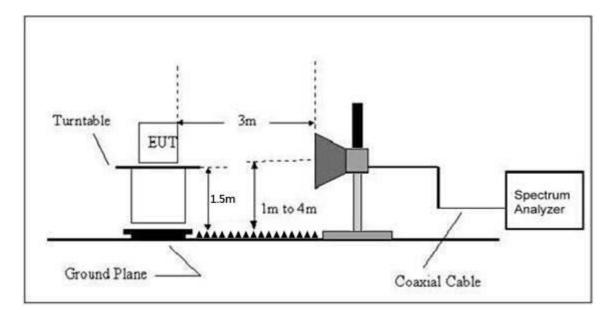


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequency | Field Strength | Distance | nce Field Strength Limit at 3m Distance | | |
|---------------|----------------|----------|-----------------------------------------|--------------------------------------|--|
| (MHz) | uV/m | (m) | uV/m | dBuV/m | |
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | 20log ^{(2400/F(kHz))} + 80 | |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | 20log ^{(24000/F(kHz))} + 40 | |
| 1.705 ~ 30 | 30 | 30 | 100 * 30 | 20log ⁽³⁰⁾ + 40 | |
| 30 ~ 88 | 100 | 3 | 100 | 20log ⁽¹⁰⁰⁾ | |
| 88 ~ 216 | 150 | 3 | 150 | 20log ⁽¹⁵⁰⁾ | |
| 216 ~ 960 | 200 | 3 | 200 | 20log ⁽²⁰⁰⁾ | |
| Above 960 | 500 | 3 | 500 | 20log ⁽⁵⁰⁰⁾ | |

Limits Of Radiated Emission Measurement (Above 1000MHz)

| | Limit (dBuV/m) | (at 3M) |
|-----------------|----------------|---------|
| Frequency (MHz) | Peak | Average |
| Above 1000 | 74 | 54 |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

| Receiver Parameter | Setting | | |
|--------------------|-------------------|--|--|
| Attenuation | Auto | | |
| 9kHz~150kHz | RBW 200Hz for QP | | |
| 150kHz~30MHz | RBW 9kHz for QP | | |
| 30MHz~1000MHz | RBW 120kHz for QP | | |
| 30MHz~1000MHz | RBW 120kHz for QP | | |

| Spectrum Parameter | Setting |
|--------------------|--------------------------------------------------------------------|
| 1-25GHz | RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average |

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



7.5 Test Result

Below 30MHz

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|--------------|
| Pressure: | 101KPa | Tost Voltago : | AC 120V/60Hz |
| Test Mode: | Mode 4 | Test Voltage : | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| | | | | PASS |
| | | | | PASS |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the

permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

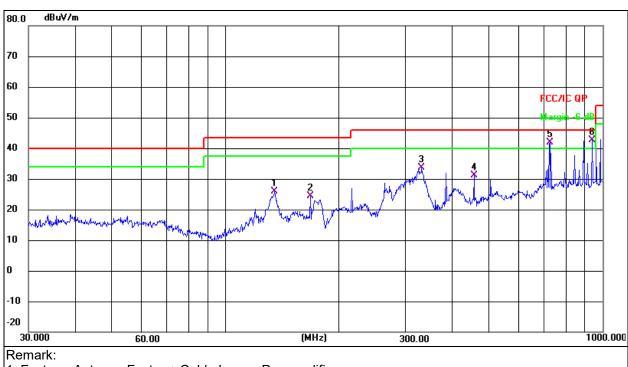
No.: BCTC/RF-EMC-007

Page: 20 of 79

Edition: B.0



| | Between 30 | MHz – 1GHz | |
|--------------|-------------|--------------------|--------------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 101KPa | Phase : | Horizontal |
| Test Mode: | Mode 4 | Test Voltage: | AC 120V/60Hz |



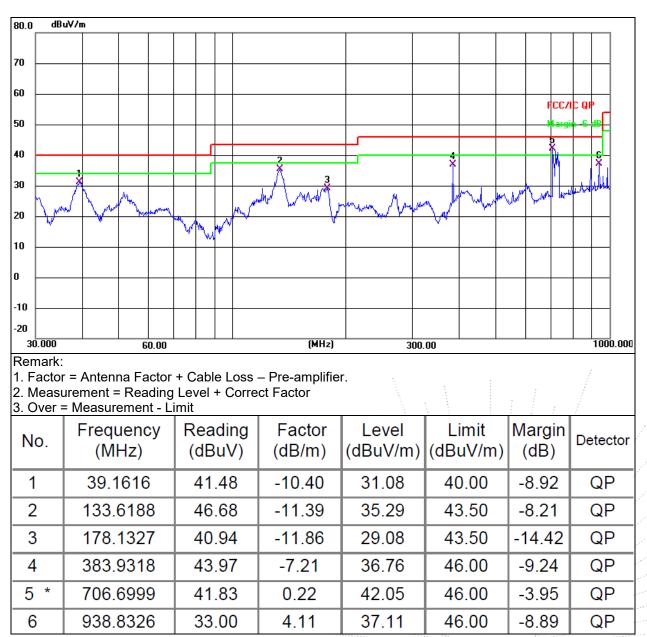
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

| 3. Over = | Measurement - Li | mit | | | | | 1 |
|-----------|--------------------|-------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|-------------------|----------------|----------|
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
| 1 | 135.0319 | 37.19 | -11.32 | 25.87 | 43.50 | -17.63 | QP |
| 2 | 167.8243 | 35.51 | -11.01 | 24.50 | 43.50 | -19.00 | QP |
| 3 | 331.3546 | 42.14 | -8.51 | 33.63 | 46.00 | -12.37 | QP |
| 4 | 455.9058 | 35.31 | -4.08 | 31.23 | 46.00 | -14.77 | QP |
| 5! | 724.2611 | 41.20 | 0.67 | 41.87 | 46.00 | -4.13 | QP |
| 6 * | 938.8326 | 38.57 | 4.11 | 42.68 | 46.00 | -3.32 | QP |
| | | | Contraction of the second s | | 1 / L 1 / L | | |



| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|--------------|-------------|--------------------|-------------|
| Pressure: | 101KPa | Test Voltage: | AC120V/60Hz |
| Test Mode: | Mode 4 | Polarization : | Vertical |



Edition: B.0



Between 1GHz – 25GHz

| Polar | Frequency | Reading Level | Correct Factor | Measure- ment | Limits | Over | Detector |
|-------|-----------|------------------|-------------------|------------------|--------------|--------|----------|
| (H/V) | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV/ m) | (dB) | Туре |
| | | | GFSK Low ch | annel | | | |
| V | 4804.00 | 54.28 | -19.99 | 34.29 | 74.00 | -39.71 | PK |
| V | 4804.00 | 45.08 | -19.99 | 25.09 | 54.00 | -28.91 | AV |
| V | 7206.00 | 45.31 | -14.22 | 31.09 | 74.00 | -42.91 | PK |
| V | 7206.00 | 35.20 | -14.22 | 20.98 | 54.00 | -33.02 | AV |
| Н | 4804.00 | 52.93 | -19.99 | 32.94 | 74.00 | -41.06 | PK |
| Н | 4804.00 | 42.46 | -19.99 | 22.47 | 54.00 | -31.53 | AV |
| Н | 7206.00 | 43.70 | -14.22 | 29.48 | 74.00 | -44.52 | PK |
| Н | 7206.00 | 35.00 | -14.22 | 20.78 | 54.00 | -33.22 | AV |
| | • | G | FSK Middle c | hannel | | • | • |
| V | 4882.00 | 52.21 | -19.84 | 32.37 | 74.00 | -41.63 | PK |
| V | 4882.00 | 45.92 | -19.84 | 26.08 | 54.00 | -27.92 | AV |
| V | 7323.00 | 44.72 | -13.90 | 30.82 | 74.00 | -43.18 | PK |
| V | 7323.00 | 36.16 | -13.90 | 22.26 | 54.00 | -31.74 | AV |
| Н | 4882.00 | 50.41 | -19.84 | 30.57 | 74.00 | -43.43 | PK |
| Н | 4882.00 | 39.55 | -19.84 | 19.71 | 54.00 | -34.29 | AV |
| Н | 7323.00 | 41.90 | -13.90 | 28.00 | 74.00 | -46.00 | PK |
| Н | 7323.00 | 34.06 | -13.90 | 20.16 | 54.00 | -33.84 | AV |
| | | | GFSK High ch | annel | | | |
| V | 4960.00 | 55.13 | -19.68 | 35.45 | 74.00 | -38.55 | PK |
| V | 4960.00 | 45.39 | -19.68 | 25.71 | 54.00 | -28.29 | AV |
| V | 7440.00 | 47.52 | -13.57 | 33.95 | 74.00 | -40.05 | PK |
| V | 7440.00 | 37.52 | -13.57 | 23.95 | 54.00 | -30.05 | AV |
| Н | 4960.00 | 52.15 | -19.68 | 32.47 | 74.00 | -41.53 | PK |
| Н | 4960.00 | 42.85 | -19.68 | 23.17 | 54.00 | -30.83 | AV |
| Н | 7440.00 | 46.24 | -13.57 | 32.67 | 74.00 | -41.33 | PK |
| Н | 7440.00 | 38.58 | -13.57 | 25.01 | 54.00 | -28.99 | AV |

Remark:

1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

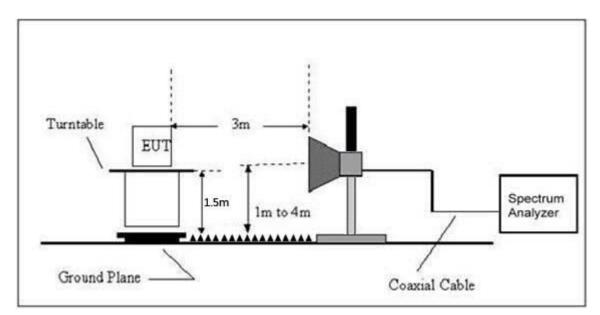
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |



Limits Of Radiated Emission Measurement (Above 1000MHz)

| Fraguanay (MHz) | Limit (d | BuV/m) (at 3M) |
|-----------------|----------|----------------|
| Frequency (MHz) | Peak | Average |
| Above 1000 | 74 | 54 |

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

| Receiver Parameter | Setting |
|---------------------------------------|--------------------------------------------------|
| Attenuation | Auto |
| Start Frequency | 2300MHz |
| Stop Frequency | 2520 |
| RB / VB (Emission In Restricted Band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

| Test mode | Polar (H/V) | | Level | Correct Factor | Measure- ment (dBuV/m) | ment Limits | | |
|-----------|----------------|---------|----------|-------------------|------------------------------|-------------|-------|------|
| | () | () | (dBuV/m) | (dB) | РК | РК | AV | |
| | | | Low | Channel 2 | 402MHz | | | |
| | Н | 2390.00 | 53.28 | -19.46 | 33.82 | 74.00 | 54.00 | PASS |
| | Н | 2400.00 | 58.25 | -19.42 | 38.83 | 74.00 | 54.00 | PASS |
| | V | 2390.00 | 53.30 | -19.46 | 33.84 | 74.00 | 54.00 | PASS |
| GFSK | V | 2400.00 | 54.32 | -19.42 | 34.90 | 74.00 | 54.00 | PASS |
| GFSK | | | High | n Channel 2 | 480MHz | • | • | |
| | Н | 2483.50 | 52.27 | -19.05 | 33.22 | 74.00 | 54.00 | PASS |
| | Н | 2500.00 | 49.17 | -18.98 | 30.19 | 74.00 | 54.00 | PASS |
| | V | 2483.50 | 52.22 | -19.05 | 33.17 | 74.00 | 54.00 | PASS |
| | V | 2500.00 | 49.18 | -18.95 | 30.23 | 74.00 | 54.00 | PASS |
| | | | Low | Channel 2 | 402MHz | | | |
| | Н | 2390.00 | 52.80 | -19.46 | 33.34 | 74.00 | 54.00 | PASS |
| | Н | 2400.00 | 56.57 | -19.42 | 37.15 | 74.00 | 54.00 | PASS |
| | V | 2390.00 | 53.48 | -19.46 | 34.02 | 74.00 | 54.00 | PASS |
| | V | 2400.00 | 54.91 | -19.42 | 35.49 | 74.00 | 54.00 | PASS |
| π/4DQPSK | | | High | n Channel 2 | 480MHz | • | • | |
| | Н | 2483.50 | 51.96 | -19.05 | 32.91 | 74.00 | 54.00 | PASS |
| | Н | 2500.00 | 49.14 | -18.98 | 30.16 | 74.00 | 54.00 | PASS |
| | V | 2483.50 | 53.43 | -19.05 | 34.38 | 74.00 | 54.00 | PASS |
| | V | 2500.00 | 50.14 | -18.95 | 31.19 | 74.00 | 54.00 | PASS |
| | | | Low | Channel 2 | 402MHz | • | | |
| | Н | 2390.00 | 53.99 | -19.46 | 34.53 | :74.00 | 54.00 | PASS |
| | Н | 2400.00 | 57.00 | -19.42 | 37.58 | 74.00 | 54.00 | PASS |
| | V | 2390.00 | 54.63 | -19.46 | 35.17 | 74.00 | 54.00 | PASS |
| | V | 2400.00 | 56.27 | -19.42 | 36.85 | 74.00 | 54.00 | PASS |
| 8DPSK | | | High | n Channel 2 | | | | |
| | Н | 2483.50 | 54.21 | -19.05 | 35.16 | 74.00 | 54.00 | PASS |
| | Н | 2500.00 | 49.27 | -18.98 | 30.29 | 74.00 | 54.00 | PASS |
| | V | 2483.50 | 54.40 | -19.05 | 35.35 | 74.00 | 54.00 | PASS |
| | V | 2500.00 | 51.23 | -18.95 | 32.28 | 74.00 | 54.00 | PASS |

Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. Spurious RF Conducted Emissions

9.1 Block Diagram Of Test Setup



9.2 Limit

Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c))

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

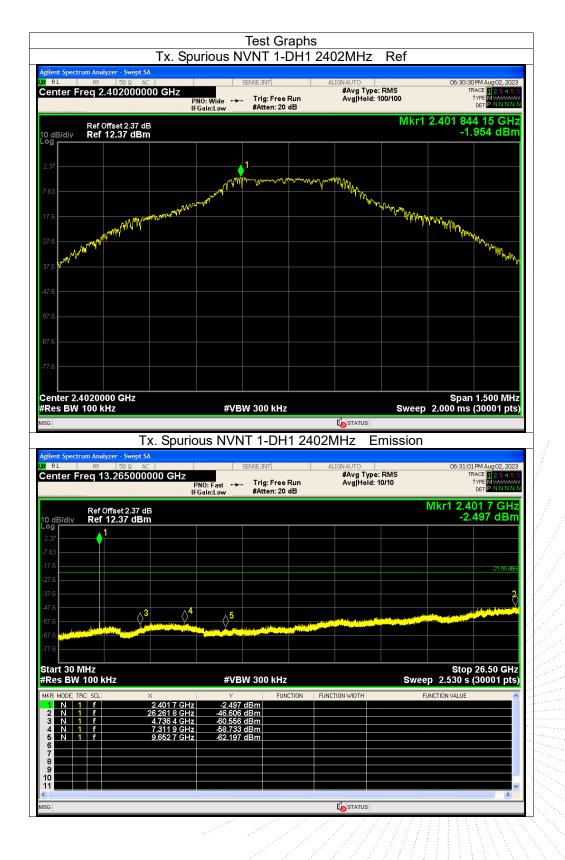
Detector function = peak, Trace = max hold

Page: 27 of

Edition: B.0



9.4 Test Result







Edition: B.0

No.: BCTC/RF-EMC-007

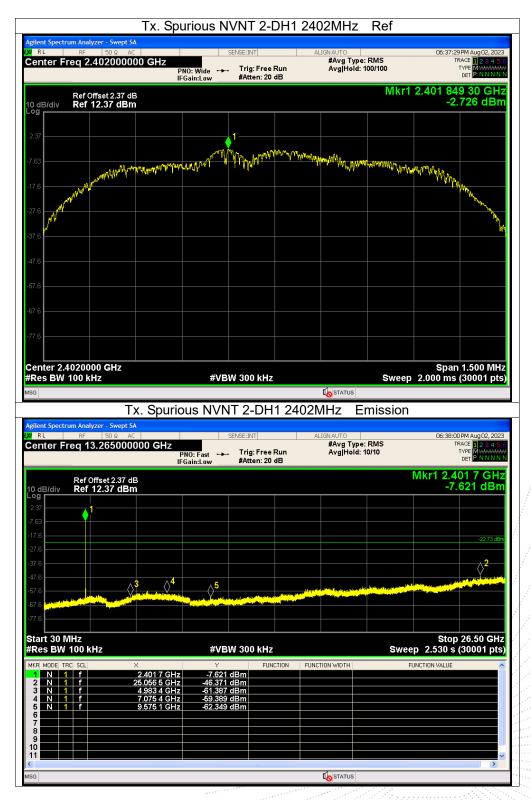




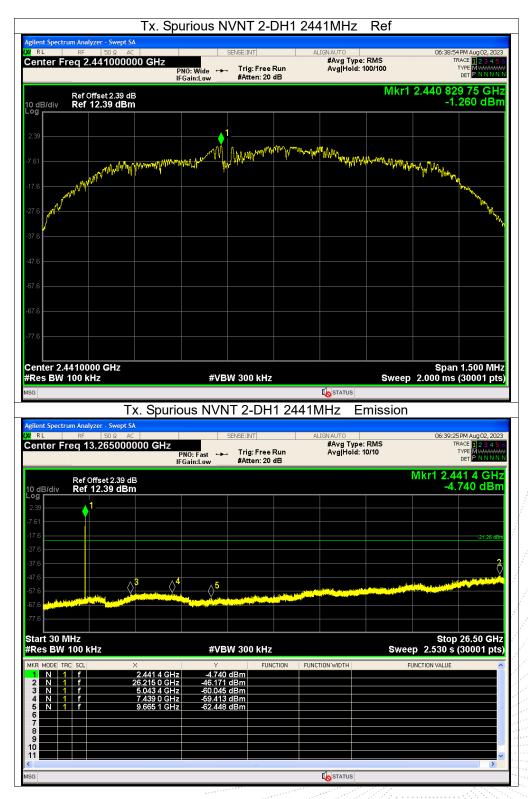
Edition: B.0

No.: BCTC/RF-EMC-007





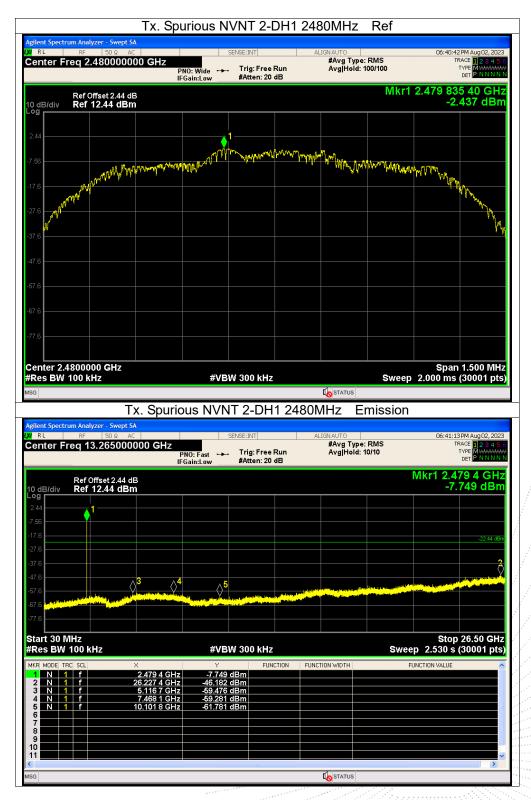




Edition: B.0

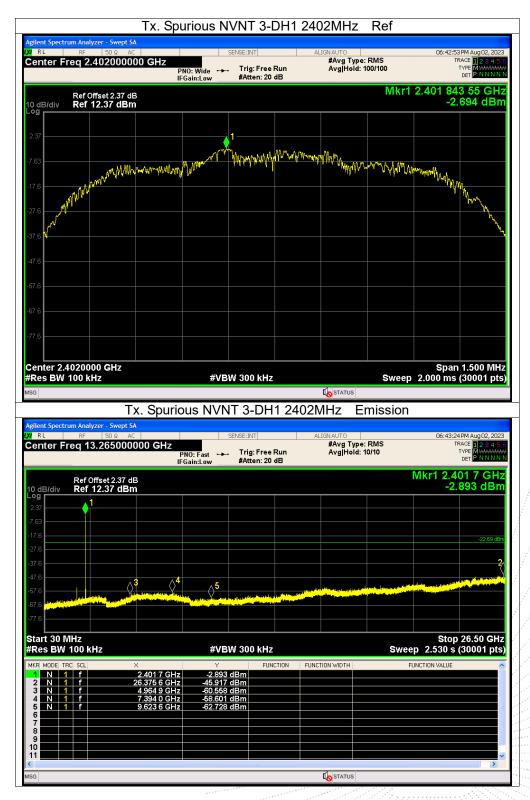
No.: BCTC/RF-EMC-007



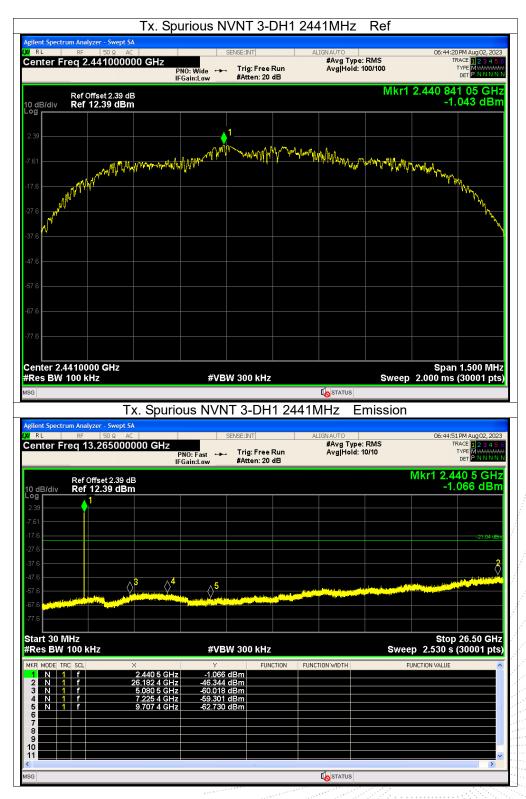


No.: BCTC/RF-EMC-007









Edition: B.0

No.: BCTC/RF-EMC-007



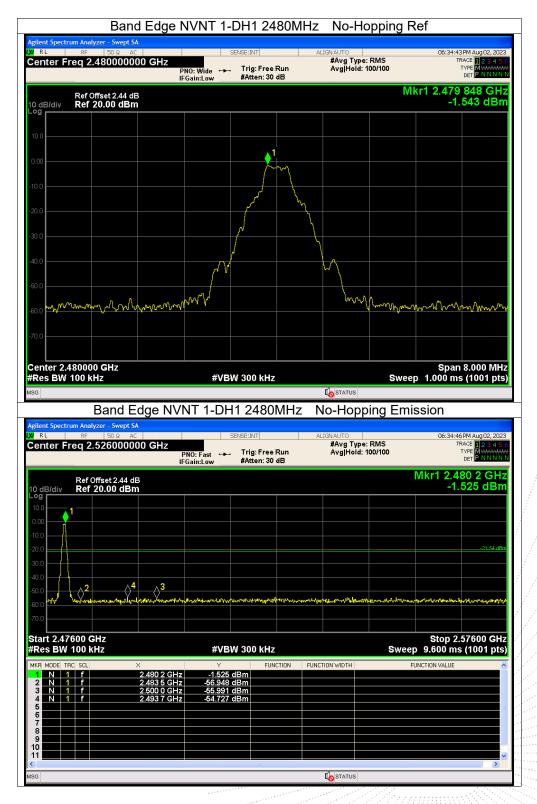
| ilent Spectrum Analyzer - Swej | | ous NVNT 3-E | DH1 2480MHz | Ref | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RL RF 50 Ω | AC | SENSE:INT | | | 06:45:51 PM Aug 02, 20 |
| enter Freq 2.48000 | PNO: V | Vide ↔ Trig: Free F :low #Atten: 20 o | | | TRACE 1234 TYPE MWWW DET P N N N |
| | IFGain | LUW MALLEN 20 (| | Mkr1 2.47 | 9 842 00 GI |
| Ref Offset 2.44 dB/div Ref 12.44 d | Bm | | | | -2.484 dB |
| | | | | | |
| .44 | | 1 | | | |
| .56 | | Mary Mary Mary Mary | Man and a start and a start and a start and a start a | DOP should be | |
| mm | Manageroupering | | | MANNA HAVAN | Million |
| 7.6 | | 1 pm/2 VII may any with | | | and the state of t |
| 7.6 /1 * | | | | | |
| a form | | | | | × |
| 7.6 | | | | | |
| 7.6 | | | | | |
| 7.6 | | | | | |
| | | | | | |
| 7.6 | | | | | |
| 7.6 | | | | | |
| | | | | | |
| enter 2.4800000 GHz | | | | | Span 1.500 MI |
| Res BW 100 kHz | | #VBW 300 kHz | | Sweep 2.00 | 0 ms (30001 pi |
| G | T 0 · | | | | |
| | | NVNT 3-DH | 1 2480MHz E | mission | |
| ilent Spectrum Analyzer - Swej RL RF 50 Ω | AC | SENSE:INT | ALIGNAUTO | | 06:46:22 PM Aug 02, 20 |
| enter Freq 13.2650 | | | | AL DIME | TRACE |
| | PNO: | | Run Avg Hold: | e: RMS : 10/10 | IYPE W BOOSDOO |
| | PNO: IFGain | | Run Avg Hold: | : 10/10 | 1 2.480 2 GF |
| Ref Offset 2.4 | PN0: IFGain IFGain 4 dB | | Run Avg Hold: | : 10/10 | 1 2.480 2 GF |
| Ref Offset 2.4 | PN0: IFGain IFGain 4 dB | | Run Avg Hold: | : 10/10 | 1 2.480 2 GF |
| Ref Offset 2.4 0 dB/div 9 44 56 | PN0: IFGain IFGain 4 dB | | Run Avg Hold: | : 10/10 | 1 2.480 2 GF |
| Ref Offset 2.4 0 dB/div 9 44 56 7.6 | PN0: IFGain IFGain 4 dB | | Run Avg Hold: | : 10/10 | 1 2.480 2 GF -2.915 dB |
| Ref Offset 2.4 0 dB/div Ref 12.44 d | PN0: IFGain IFGain 4 dB | | Run Avg Hold: | : 10/10 | TRACE 1 2 3 4 TYPE MWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW |
| Ref Offset 2.4 0 dB/div Ref 12.44 d 9 7 6 7 6 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 | PNO: IFGain Bm | Low #Atten: 20 d | Run Avg Hold: | : 10/10 | 1 2.480 2 GH -2.915 dBi |
| Ref Offset 2.4 0 dB/div Ref 12.44 d 9 d 7.6 7.6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 6 7.7 7.7 | PN0: IFGain IFGain 4 dB | | Run Avg Hold: | : 10/10 | 1 2.480 2 GH -2.915 dBi |
| Ref Offset 2.4 d B/div Ref 12.44 d 1 1 56 1 76 1 776 1 776 1 776 1 | PNO: IFGain Bm | Low #Atten: 20 d | Run Avg Hold: | : 10/10 | 1 2.480 2 GF -2.915 dB |
| Ref Offset 2.4. 0 dB/div Ref 12.44 d 9 1 2.44 1 7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 | PNO: IFGain Bm | Low #Atten: 20 d | Run Avg Hold: | : 10/10 | -22.480 2 GH -2.915 dBi |
| Ref Offset 2.4. d dB/div 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 | PNO: IFGain Bm | Low #Atten: 20 d | Run Avg Hold: | | 2.480 2 GH -2.915 dB -2.915 dB |
| Ref Offset 2.4. 0 dB/div Ref 12.44 d 9 d 2.44 56 7.6 7.6 7.6 7.6 1. 7.6 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | PNO: IFGain | Low #Atten: 20 d ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | Run Avg Hold: | | 22.43 d -2.915 dB -2.915 dB -2.915 dB -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d |
| Ref Offset 2.4. 0 dB/div Ref 12.44 d 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PNO: IFGain 4 dB Bm ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | #VBW 300 kHz 2.2.915 dBm | Run Avg Hold: dB | Sweep 2. | 22.43 d -2.915 dB -2.915 dB -2.915 dB -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d |
| Ref Offset 2.4. OdB/div Ref 12.44 d 99 1 56 1 7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.6 1 7.7.7 1 7.8 1 7.9 1 | × 2.480 2 GHz 26.225 6 GHz 5.084 9 GHz 7.601 3 GHz | | Run Avg Hold: dB | Sweep 2. | 22.43 d -2.915 dB -2.915 dB -2.915 dB -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d |
| Ref Offset 2.4 egg Ref 12.44 ogg 1 ogg 1 1 ogg 1 1 1 ogg 1 1 1 ogg 1 1 1 ogg 1 1 1 | × 2.480 2 GHz 26.226 6 GHz 5.084 9 GHz | | Run Avg Hold: dB | Sweep 2. | 22.43 d -2.915 dB -2.915 dB -2.915 dB -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d |
| Ref Offset 2.4. Odd/div Ref 12.44 d Odd/div I T I I T I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I | × 2.480 2 GHz 26.225 6 GHz 5.084 9 GHz 7.601 3 GHz | | Run Avg Hold: dB | Sweep 2. | 22.48 d -2.915 dB -2.915 dB -2.248 d -22.48 d -23.48 d -2 |
| Ref Offset 2.4. d dB/div Ref 12.44 d og 1 4 1 56 1 76 1 76 1 76 1 76 1 76 1 76 1 76 1 76 1 76 1 76 1 76 1 8 1 8 1 7 1 7 1 8 1 9 1 | × 2.480 2 GHz 26.225 6 GHz 5.084 9 GHz 7.601 3 GHz | | Run Avg Hold: dB | Sweep 2. | 22.48 d -2.915 dB -2.915 dB -2.248 d -22.48 d -23.48 d -2 |
| Ref Offset 2.4. O dB/div Ref 12.44 d 0 d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 2 1 1 1 2 1 3 1 5 1 6 - 7 - 8 - 9 - | × 2.480 2 GHz 26.225 6 GHz 5.084 9 GHz 7.601 3 GHz | | Run Avg Hold: dB | Sweep 2. | 22.43 d -2.915 dB -2.915 dB -2.915 dB -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d -22.43 d |



| Ba | nd Edae N | Ies IVNT 1-DH | t Graphs 1 2402MH | lz No-Ho | opping Re | f |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gilent Spectrum Analyzer - Swe | ot SA | | . 21021011 | | | |
| RL RF 50 Ω Center Freq 2.40200 | 0000 GHz | | ग j: Free Run en: 30 dB | ALIGN AUTO #Avg Type Avg Hold: " | | 06:30:21 PM Aug 02, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N |
| Ref Offset 2.3 0 dB/div Ref 20.00 d | 7 dB | Juneow | | | Mkr | 1 2.401 856 GHz -2.077 dBm |
| og | | | | | | |
| 10.0 | | | .1 | | | |
| 0.00 | | | , in the second | | | |
| 0.0 | | | | | | |
| 20.0 | | / ⁴ | لر | | | |
| 30.0 | | $\int dr$ | | | | |
| 10.0 | | N | | \sim | | |
| 50.0 | | with | | hrsh | manna a A a | m A + . 0 |
| 50.0 hours hours | | | | | A AAAAA (| max have have |
| 0.0 | | | | | | |
| enter 2.402000 GHz | | | | | | On on 0 000 MU |
| Res BW 100 kHz | | #VBW 300 |) kHz | | Sweep | |
| | | #VBW 300 |) kHz | | Sweep | |
| Res BW 100 kHz ^{sg} Band | Edge NVN | | | | | 1.000 ms (1001 pts |
| Band Band gilent Spectrum Analyzer - Swep | ot SA | NT 1-DH1 24 | 402MHz | No-Hopp | Sweep bing Emiss | 1.000 ms (1001 pts sion |
| SG Band gilent Spectrum Analyzer - Swe RL RF 50 Ω | AC OOOO GHZ | NT 1-DH1 24 | 402MHz | | bing Emiss | 1.000 ms (1001 pts) sion 06:30:24PM Aug 02, 2023 TRACE 12:34 5 1 |
| SG Band gilent Spectrum Analyzer - Swe RL RF 50 Q center Freq 2.356000 Ref Offset 2.3 | AC ODUC GHZ PN FG 7 dB | NT 1-DH1 24 SENSE:IN NO: Fast → Trig | 402MHz | No-Hopp Alignauto #Avg Type | Ding Emiss | 1.000 ms (1001 pts sion 06:30:24PM Aug 02, 2023 TRACE 12 3 4 5 TRACE 12 3 5 TRACE |
| Band glient Spectrum Analyzer - Swe RL RF 1500 senter Freq 2.35600 Ref Offset 2.3 0 dB/div Ref 20.00 d | AC ODUC GHZ PN FG 7 dB | NT 1-DH1 24 | 402MHz | No-Hopp Alignauto #Avg Type | Ding Emiss | 1.000 ms (1001 pts sion 06:30:24PM Aug02, 2023 TRACE 12 23 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5 |
| Band glient Spectrum Analyzer - Swe RL RF 1500 center Freq 2.35600 Ref Offset 2.3 0 dB/div Ref 20.00 d | AC ODUC GHZ PN FG 7 dB | NT 1-DH1 24 | 402MHz | No-Hopp Alignauto #Avg Type | Ding Emiss | 1.000 ms (1001 pts sion 06:30:24PM Aug 02, 2023 TRACE 12 3 4 5 TRACE 12 3 5 TRACE |
| Band Blent Spectrum Analyzer - Swe RL RF IS00 center Freq 2.35600 Ref Offset 2.3 0 dB/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | AC ODUC GHZ PN FG 7 dB | NT 1-DH1 24 | 402MHz | No-Hopp Alignauto #Avg Type | Ding Emiss | 1.000 ms (1001 pts sion 06:30:24PM Aug 02, 2023 TRACE 12 3 4 5 TRACE 12 3 5 TRACE |
| Band glient Spectrum Analyzer - Swe RL R S0 0 S0 0 Ref Offset 2.3 0 dB/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | AC ODUC GHZ PN FG 7 dB | NT 1-DH1 24 | 402MHz | No-Hopp Alignauto #Avg Type | RMS 100/100 | 1.000 ms (1001 pts sion 06:30:24PM Aug 02, 2023 TRACE 12 3 4 5 TRACE 12 3 5 TRACE |
| Band glient Spectrum Analyzer - Swe RL RF S0 0 Ref Offset 2.3 0 dB/div Ref 20.00 d 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 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 | ac prisa ac prisa 00000 GHz PP IFG 7 dB Bm | IT 1-DH1 24 SENSE:IN NO: Fast ↔ Trig Sain:Low #Att | 402MHz | No-Hopp Alignauto #Avg Type | RMS 100/100 | 1.000 ms (1001 pts sion 06:30:24PM Aug 02, 2023 TRACE 12 3 4 5 TRACE 12 3 |
| S6 Band glent Spectrum Analyzer - Swe RL RF 50 Q renter Freq 2.356000 Sector Ref Offset 2.3 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.3 Sector Ref Offset 2.4 Sector Ref Offset 2.3 0 dB/div Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Ref Offset 2.4 Sector Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offset 2.4 Ref Offset 2.4 Ref Offset 2.4 Sector Ref Offset 2.4 0 dB/div Ref Offs | ac prisa ac prisa 00000 GHz PP IFG 7 dB Bm | IT 1-DH1 24 SENSE:IN NO: Fast →→ Trig Sain:Low → #Att | 402MHz T : Free Run en: 30 dB | No-Hopp | RMS 100/100 | 1.000 ms (1001 pts sion 06:30:24PM Aug02,2023 TRACE 12:34:54 TRACE 12:34:5 |
| Band glient Spectrum Analyzer - Sweg RL RF Ref Offset 2.3 0 dB/div Ref 20.00 d 9 | pt SA AC AC AC P P P P P P P P P P P P P | IT 1-DH1 24 SENSE:IN NO: Fast →→ Trig Sain:Low → #Att | 402MHz | No-Hopp | ERMS 100/100 M | 1.000 ms (1001 pts) sion 06:30:24PM Aug02, 2023 TRACE 02:34 5 6 TRACE |
| SG Band gllent Spectrum Analyzer - Swer RL RF 150 2 Ref Offset 2.3 Start 2.356000 Start 2.356000 Ref Offset 2.3 Ref 20.00 d Start 2.35600 0 dB/div Ref 20.00 d Start 2.36000 0 dB/div Ref 20.00 d Start 2.30600 1 d f Start 2.30600 | AC A | IT 1-DH1 24 | 402MHz | No-Hopp | ERMS 100/100 M | 06:30:24 PM Aug 02, 2023 TRACE 1 2 3 4 5 c TYPE MUMUUM CET P NNNNT kr1 2.401 8 GHz -2.278 dBm 1 |
| SG Band Ref Offset 2.3 Colspan="2">Ref Offset 2.3 Colspan="2">Colspan="2">Ref Offset 2.3 Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspa="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Co | pt SA AC AC AC P P P P P P P P P P P P P | JT 1-DH1 24 | 402MHz | No-Hopp | ERMS 100/100 M | 1.000 ms (1001 pts sion 06:30:24PM Aug02, 2023 TRACE 02:34 5 TRACE 02:34 5 T |
| Band Blent Spectrum Analyzer - Swee Ref Offset 2.3 enter Freq 2.35600 Ref Offset 2.3 d B/div Ref Offset 2.3 d B/div Ref Offset 2.3 0 d B/div Ref Offset 2.3 0 d B/div d B/div Ref Offset 2.3 0 d B/div | AC AC Philodology AC Philodology Philodology 7 dB Bm Philodology 7 dB Philodology Philodology 8 Philodology Philodology 9 Philodology Philodology 9 <t< td=""><td>JT 1-DH1 24 SENSE:IN NO: Fast → Trig Sain:Low #Att #Att #VBW 300 ¥VBW 300</td><td>402MHz</td><td>No-Hopp</td><td>ERMS 100/100 M</td><td>1.000 ms (1001 pts sion 06:30:24PM Aug02, 2023 TRACE 02:34 5 TRACE 02:34 5 T</td></t<> | JT 1-DH1 24 SENSE:IN NO: Fast → Trig Sain:Low #Att #Att #VBW 300 ¥VBW 300 | 402MHz | No-Hopp | ERMS 100/100 M | 1.000 ms (1001 pts sion 06:30:24PM Aug02, 2023 TRACE 02:34 5 TRACE 02:34 5 T |
| Band Blent Spectrum Analyzer - Swe RL RF ISO Ref Offset 2.3 Ref Offset 2.3 O dB/div Ref 20.00 d O dott colspan="2">O dott colspan="2" O dott colspan="2" <td>AC AC Philodology AC Philodology Philodology 7 dB Bm Philodology 7 dB Philodology Philodology 8 Philodology Philodology 9 <t< td=""><td>JT 1-DH1 24 SENSE:IN NO: Fast → Trig Sain:Low #Att #Att #VBW 300 ¥VBW 300</td><td>402MHz</td><td>No-Hopp</td><td>ERMS 100/100 M</td><td>1.000 ms (1001 pts) sion 06:30:24PM Aug 02,2023 TRACE 02 34 5 6 TYPE 04 12 34 5 6 TRACE 02 34 5 6 TRAC</td></t<></td> | AC AC Philodology AC Philodology Philodology 7 dB Bm Philodology 7 dB Philodology Philodology 8 Philodology Philodology 9 Philodology Philodology 9 <t< td=""><td>JT 1-DH1 24 SENSE:IN NO: Fast → Trig Sain:Low #Att #Att #VBW 300 ¥VBW 300</td><td>402MHz</td><td>No-Hopp</td><td>ERMS 100/100 M</td><td>1.000 ms (1001 pts) sion 06:30:24PM Aug 02,2023 TRACE 02 34 5 6 TYPE 04 12 34 5 6 TRACE 02 34 5 6 TRAC</td></t<> | JT 1-DH1 24 SENSE:IN NO: Fast → Trig Sain:Low #Att #Att #VBW 300 ¥VBW 300 | 402MHz | No-Hopp | ERMS 100/100 M | 1.000 ms (1001 pts) sion 06:30:24PM Aug 02,2023 TRACE 02 34 5 6 TYPE 04 12 34 5 6 TRACE 02 34 5 6 TRAC |

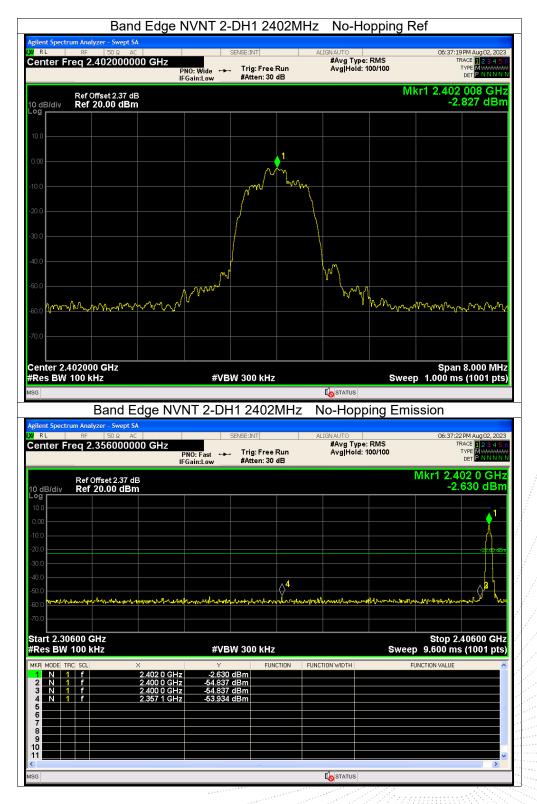
Edition: B.0





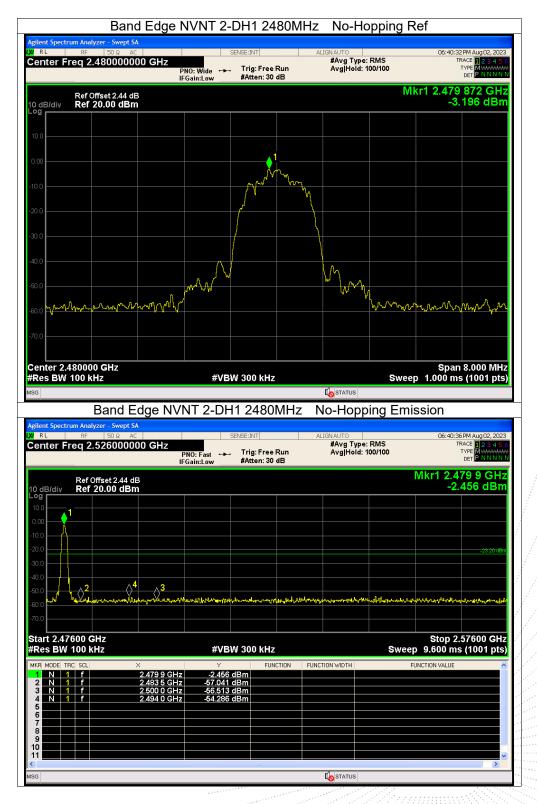
Edition: B.0





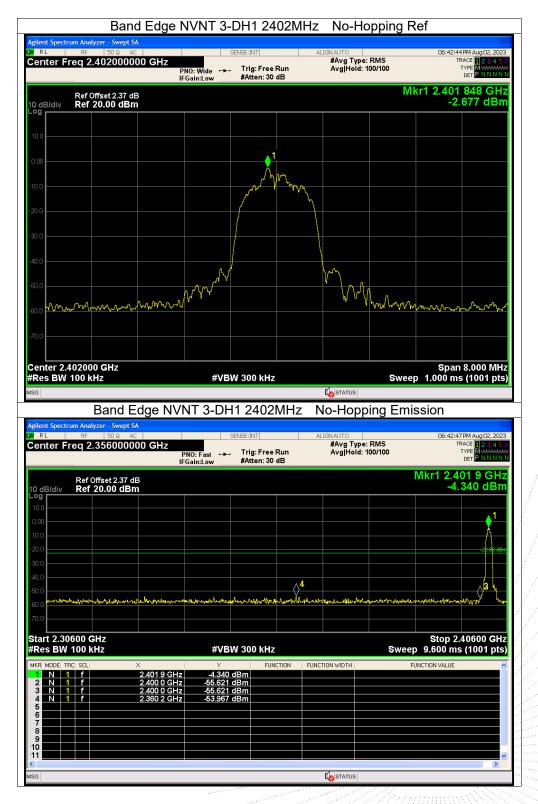
Edition: B.0





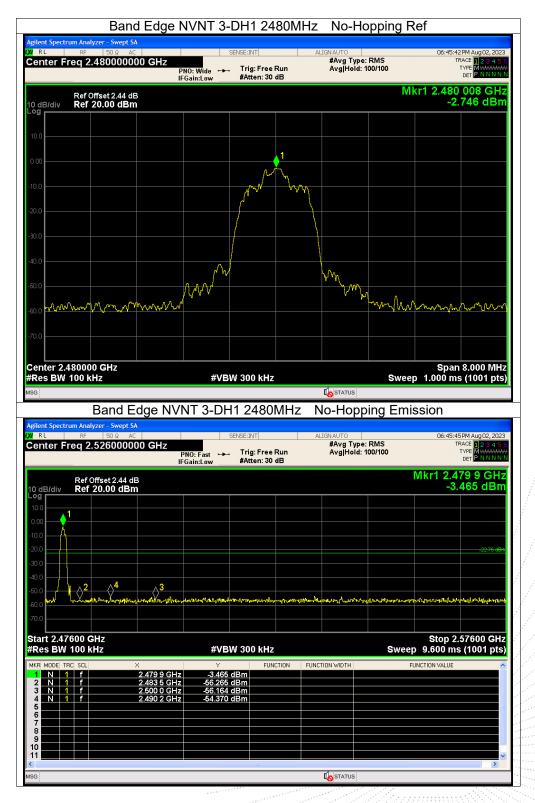
Edition: B.0





Edition: B.0





Edition: B.0





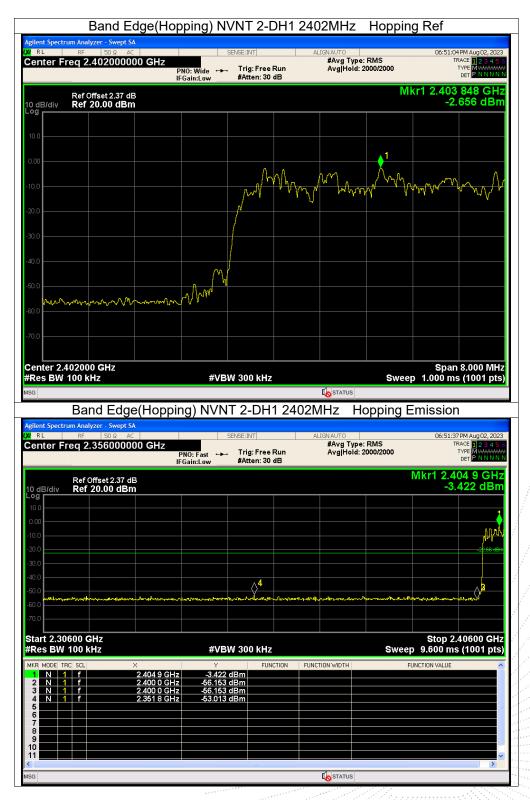
Edition: B.0





Edition: B.0

















Edition: B.0



10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

| Condition | Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|------------------------------|---------|
| NVNT | 1-DH1 | 2402 | 0.914 | Pass |
| NVNT | 1-DH1 | 2441 | 0.896 | Pass |
| NVNT | 1-DH1 | 2480 | 0.926 | Pass |
| NVNT | 2-DH1 | 2402 | 1.269 | Pass |
| NVNT | 2-DH1 | 2441 | 1.254 | Pass |
| NVNT | 2-DH1 | 2480 | 1.260 | Pass |
| NVNT | 3-DH1 | 2402 | 1.259 | Pass |
| NVNT | 3-DH1 | 2441 | 1.250 | Pass |
| NVNT | 3-DH1 | 2480 | 1.256 | Pass |























No.: BCTC/RF-EMC-007

Page: 54 of 79



11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | | | |
|---------------------------------|----------------------|---------------------|--------------------------|--------|--|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | | |
| 15.247(b)(1) | Peak Output Power | 0.125 watt or 21dBm | 2400-2483.5 | PASS | | |

11.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

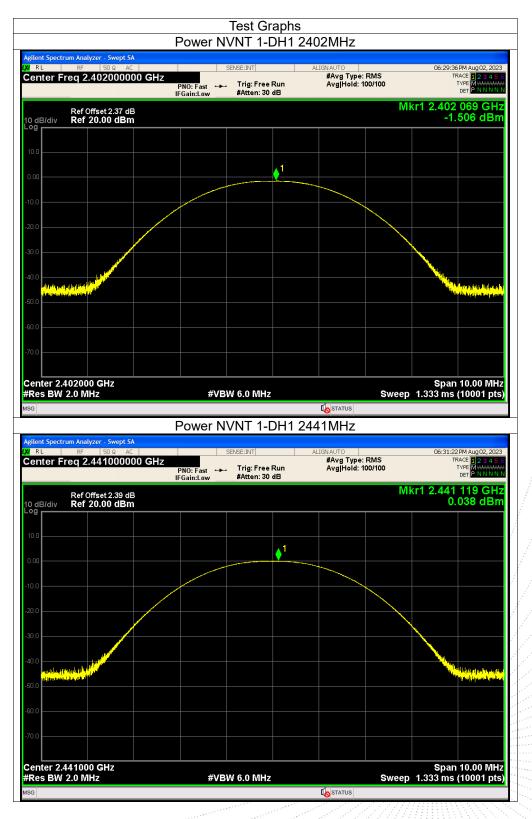
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.

3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

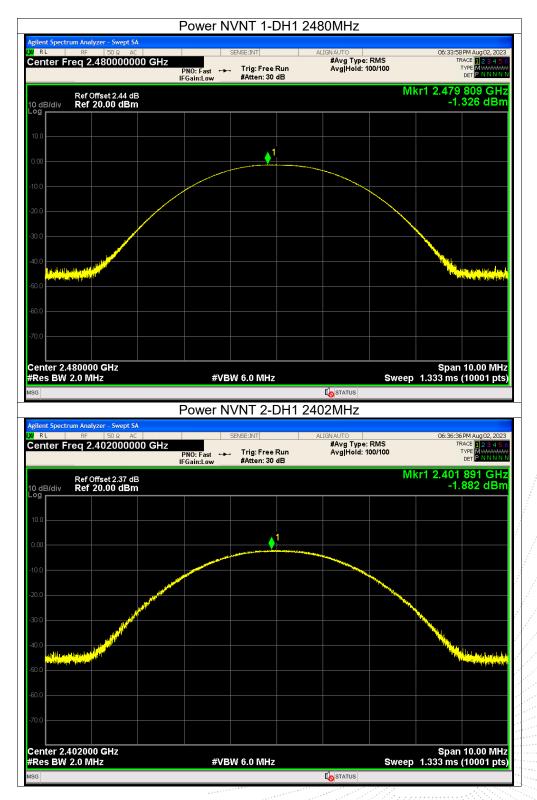
11.4 Test Result

| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|--------------------|--------------------------|-------------|---------|
| NVNT | 1-DH1 | 2402 | -1.51 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | 0.04 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | -1.33 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | -1.88 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | -0.23 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | -1.58 | 21 | Pass |
| NVNT | 3-DH1 | 2402 | -1.49 | 21 | Pass |
| NVNT | 3-DH1 | 2441 | 0.14 | 21 | Pass |
| NVNT | 3-DH1 | 2480 | -1.29 | 21 | Pass |





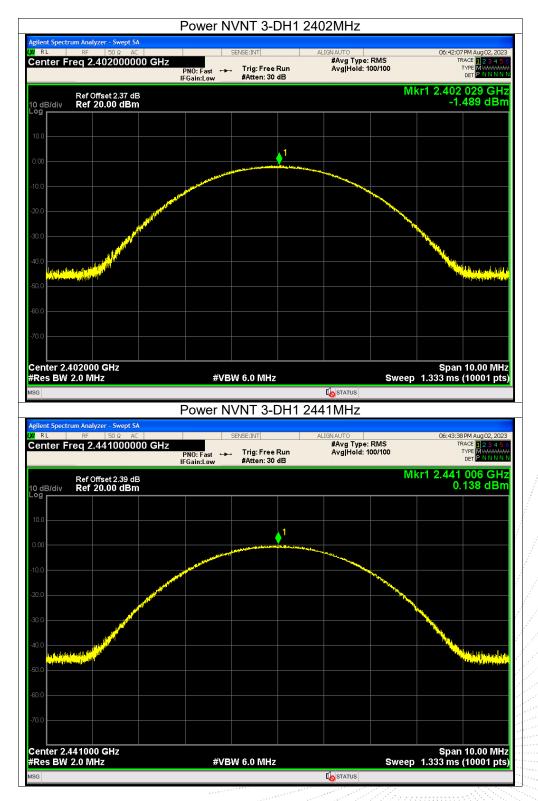




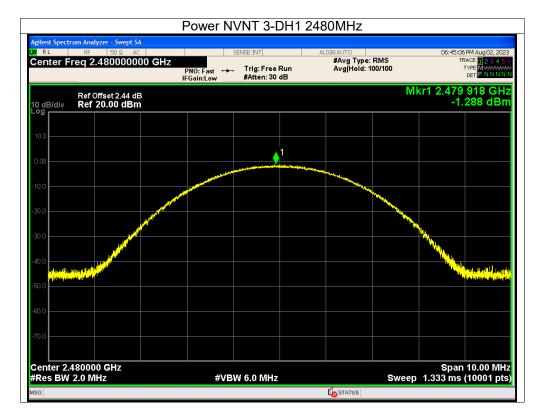












No.: BCTC/RF-EMC-007

Page: 60 of 79



12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

| odulation | Test Channel | Separation (MHz) | Limit(MHz) | Result |
|-----------|--------------|------------------|------------|--------|
| GFSK | Low Market | 1.000 | 0.914 | PASS |
| GFSK | Middle | 1.000 | 0.896 | PASS |
| GFSK | High 🗠 | 1.000 | 0.926 | PASS |
| π/4 DQPSK | Low | 1.000 | 0.846 | PASS |
| π/4 DQPSK | Middle | 1.002 | 0.836 | PASS |
| π/4 DQPSK | High | 1.002 | 0.840 | PASS |
| 8DPSK | Low | 1.002 | 0.839 | PASS |
| 8DPSK | Middle | 1.000 | 0.833 | PASS |
| 8DPSK | High | 1.000 | 0.837 | PASS |

12.4 Test Result



| | | Test S NVNT 1 | Graphs -DH1 24 | 02MHz | | |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------|--------------------|----------------------------------------------|----------------------------------------|----------------------------------------------------------------------------|
| ilent Spectrum Analyzer - Swa RL RF 50 ହ enter Freq 2.40250 | AC 00000 GHz PNO: | SENSE:INT Wide Trig: F n:Low #Atten | ree Run : 30 dB | ALIGNAUTO #Avg Type: RM Avg Hold:>100 | IS | 30:16 PM Aug 02, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N |
| Ref Offset 2.3 0 dB/div Ref 20.00 d | 37 dB d Bm | | | | Mkr1 2.4 | 01 838 GHz -3.530 dBm |
| | | | | 2 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| 40.0 | | | | | | |
| enter 2.402500 GHz Res BW 30 kHz | | #VBW 100 k | (Hz | | Sp Sweep 2.133 | an 2.000 MHz ms (1001 pts) |
| 2 N 1 F 3 4 | 2.402 838 GHz | -3.544 dBm | -DH1 24 | Costatus 41MHz | | • |
| ilent Spectrum Analyzer - Swe | ept SA | | -DITI 24 | | | |
| RL RF 50 Ω enter Freq 2.44150 | PNO: | Wide Trig: F #Atten | ree Run : 30 dB | ALIGN AUTO #Avg Type: RM Avg Hold:>100 | IS | 32:37 PM Aug 02, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N |
| | | | | | | |
| 10.0 | 39 dB dBm | | | 2 | Mkr1 2.4 | 40 838 GHz -1.880 dBm |
| 0 dB/div Ref 20.00 d og 000 000 000 000 000 000 000 | 39 dB dBm | | | 2 | Mkr1 2.4 | 40 838 GHz -1.880 dBm |
| o dB/div Ref 20.00 o 99 100 200 200 200 200 200 200 200 200 200 | 39 dB dBm | | | 2 | | -1.880 dBm |
| o dB/div Ref 20.00 o 9 10 10 10 10 10 10 10 10 10 10 | | #VBW 100 k | | | Sweep 2.133 | -1.880 dBm |
| Ref Offset 2.3 0 dB/div Ref 20.00 d 10 0 | 39 dB 18m 1 1 1 2.440 638 GHz 2.441 838 GHz 2.441 838 GHz | #VBW 100 k | | | | -1.880 dBm |

Edition: B.0



| ilent Spectrum Analyzer | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| enter Freq 2.47 | 9500000 GHz | O: Wide Trig: Fre ain:Low #Atten: 3 | ALIGN AUTO #Avg Ty e Run Avg Hol 0 dB | | 06:34:39 PM Aug 02, 202 TRACE 12345 TYPE MWWWW DET PNNNN |
| Ref Offse dB/div Ref 20. | et 2.44 dB 00 dBm | | | Mkr1 2. | 478 840 GH -3.133 dBr |
| 0.0 | 1 | | | 2 | |
| .00 | | \sim | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| | | | | | |
| D.0 D.0 | | | | | |
| 0.0 | | | | | |
| | | | | | |
| 0.0 | | | | | |
| enter 2.479500 G Res BW 30 kHz | iHz | #VBW 100 kH | z | Sweep 2.13 | Span 2.000 MH 3 ms (1001 pts |
| R MODE TRC SCL | × 2.478 840 GHz | Y FL -3.133 dBm | JNCTION FUNCTION WIDTH | FUNCTION | ALUE |
| 2 N 1 f | 2.479 840 GHz | -3.267 dBm | | | |
| 5 | | | | | |
| 6 7 | | | | | |
| | | | | | |
| | | | | | > |
| 3 | | | STATUS | | |
| | (| CFS NVNT 2-I | DH1 2402MHz | | |
| In the Constant of American | Course CA | | | | |
| RL RF ! | 50 Ω AC | SENSE:INT | ALIGNAUTO | | 06:37:14 PM Aug 02, 202 |
| RL RF ! | 50 Ω AC 2500000 GHz PN | SENSE:INT O: Wide Trig: Fre ain:Low #Atten: 3 | #Avg Ty e Run Avg Hol | | 06:37:14 PM Aug 02, 202 TRACE 1 2 3 4 5 TYPE MWWWM DET P N N N N |
| RL RF 2.402 enter Freq 2.402 Ref Offse I dB/div Ref 20.1 | 50 Ω AC 2500000 GHz PN IFG et 2.37 dB | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol | se: RMS i:>100/100 | |
| RL RF 2.402 enter Freq 2.402 Ref Offse dB/div Ref 20.1 | 50 Q AC 2500000 GHz PN IFG at 2.37 dB 00 dBm | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol 0 dB | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF Item enter Freq 2.402 Ref Offse dB/div Ref Offse 0 0.0 00 0 | 50 Ω AC 2500000 GHz PN IFG et 2.37 dB | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF 12 enter Freq 2.402 Ref Offse d dB/div Ref 20.1 | 50 Q AC 2500000 GHz PN IFG at 2.37 dB 00 dBm | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol 0 dB | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF III | 50 Q AC 2500000 GHz PN IFG at 2.37 dB 00 dBm | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol 0 dB | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF 12 enter Freq 2.402 Ref Offse dB/div Ref 20.1 | 50 Q AC 2500000 GHz PN IFG at 2.37 dB 00 dBm | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol 0 dB | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF 12 enter Freq 2.402 Ref Offse dB/div Ref 20.1 | 50 Q AC 2500000 GHz PN IFG at 2.37 dB 00 dBm | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol 0 dB | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF 12 enter Freq 2.402 Ref Offse dB/div Ref 20.1 | 50 Q AC 2500000 GHz PN IFG at 2.37 dB 00 dBm | 0: Wide 😱 Trig: Fre | #Avg Ty e Run Avg Hol 0 dB | ≥e: RMS I:>100/100 Mkr1 2. | |
| RL RF I enter Freq 2.402 Ref Offse Ref 20.1 dB/div Ref 20.1 Ref 20.1 d0 | 50 Q AC 2500000 GHz PN IFG 25237 dB 00 dBm | O: Wide ain:Low #Atten: 3 | e Run Avg Ty 0 dB | Pe: RMS 1>100/100 Mkr1 2. | 401 838 GH -4.431 dBr |
| RL RF enter Freq 2.402 dB/div Ref Offse dB/div Ref 20.1 00 | 50 Q AC 2500000 GHz PN PN PN PN PN PN PN PN PN PN PN PN PN | O: Wide Trig: Fre ain:Low #Atten: 3 | e Run Avg Hol 0 dB | Pe: RMS i>100/100 Mkr1 2. 2 4 4 5 Sweep 2.13 | 401 838 GH -4.431 dBn 5pan 2.000 MH 3 ms (1001 pts |
| RL RF enter Freq 2.402 Ref Offse dB/div Ref 20.1 0 Ref 20.1 | 50.2 AC 2500000 GHz PN PN PN PC PC PC PC PC PC PC PC PC PC PC PC PC | O: Wide Trig: Fre ain:Low Atten: 3 | e Run Avg Ty 0 dB | Pe: RMS 1>100/100 Mkr1 2. | 401 838 GH: -4.431 dBn -4.431 dBn -4.431 dBn -4.431 dBn -4.431 dBn -4.431 dBn |
| RL RF Ref Offse enter Freq 2.402 Ref Offse Ref Offse dB/div Ref 20.1 Ref 20.1 20 | SO R AC 2500000 GHz PN FG et 2.37 dB 00 dBm | O: Wide ain:Low Trig: Fre #Atten: 3 | e Run Avg Hol 0 dB | Pe: RMS i>100/100 Mkr1 2. 2 4 4 5 Sweep 2.13 | 401 838 GH -4.431 dBn 5pan 2.000 MH 3 ms (1001 pts |
| RL RF enter Freq 2.402 Ref Offse dB/div Ref 20.1 00 | 50.2 AC 2500000 GHz PN PN PN PC PC PC PC PC PC PC PC PC PC PC PC PC | O: Wide Trig: Fre ain:Low Atten: 3 | e Run Avg Hol 0 dB | Pe: RMS i>100/100 Mkr1 2. 2 4 4 5 Sweep 2.13 | TRACE D 23 45 TYPE D 1000 PET D 1000 MH 3 ms (1001 pts |
| Ref Offse Ref 2.402 Ref 20.1 29 00 00 00 00 00 00 00 00 00 00 00 00 00 | 50.2 AC 2500000 GHz PN PN PN PC PC PC PC PC PC PC PC PC PC PC PC PC | O: Wide Trig: Fre ain:Low Atten: 3 | e Run Avg Hol 0 dB | Pe: RMS i>100/100 Mkr1 2. 2 4 4 5 Sweep 2.13 | Span 2.000 MH 13 ms (1001 pts |
| RL RF enter Freq 2.402 Ref Offse dB/div Ref 20.1 00 | 50.2 AC 2500000 GHz PN PN PN PC PC PC PC PC PC PC PC PC PC PC PC PC | O: Wide Trig: Fre ain:Low Atten: 3 | e Run Avg Hol 0 dB | Pe: RMS i>100/100 Mkr1 2. 2 4 4 5 Sweep 2.13 | 401 838 GH: -4.431 dBn -4.431 dBn -4.431 dBn -4.431 dBn -4.431 dBn -4.431 dBn |



| RL RF enter Freq 2.44 | 50 Ω AC 1500000 GHz | | T Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | 06:38:48 MS Ti 0/100 | 8 PM Aug 02, 202 RACE 1 2 3 4 5 TYPE MWWWW DET P N N N N |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------------------------------|
| | P IF | NO: Wide 😱 Trig: Gain:Low #Atte | en:30 dB | Avg Hold:>10 | | |
| | et 2.39 dB .00 dBm | | | | Mkr1 2.440 -2. | 838 GH 818 dBr |
| 2 9 0.0 | 1 | | | <mark>2</mark> | | |
| .00 | $\lambda \sim$ | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| | <u> </u> | | | | | |
|).0).0 | | | | | | |
| 0.0 | | | | | | |
|).0).0 | | | | | | |
| enter 2.441500 C | GHz | | | | | 1 2.000 MH |
| Res BW 30 KHz | X | #VBW 100 | FUNCTION | FUNCTION WIDTH | Sweep 2.133 ms | s (1001 pt |
| N 1 f 2 N 1 f | 2.440 838 GHz 2.441 840 GHz | | TORCHOR | | TONCTION VALUE | |
| 3 A | | | | | | |
| 6 7 | | | | | | |
| B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B | | | | | | |
| | | | | | | > |
| 3 | | | | I STATUS | | |
| | | | | | | |
| | | CFS NVNT : | 2-DH1 2 | 2480MHz | | |
| RL RF | - Swept SA 50 Ω AC | | | ALIGNAUTO | 06:41:4 | 1PM Aug 02, 202 |
| RL RF | - Swept SA 50 Ω AC '9500000 GHz P | SENSE:IN NO: Wide 😱 Trig: | | | 06:41:43 IMS TI 100/100 | 1 PM Aug 02, 202 RACE 1 2 3 4 5 TYPE MWWW DET P N N N N |
| RL RF enter Freq 2.47 Ref Offs | Swept SA 50 Ω AC 29500000 GHz P IF et 2.44 dB | SENSE:IN NO: Wide Trig: | T : Free Run | ALIGN AUTO #Avg Type: R | Ms 100/100 Mkr1 2.478 | |
| dB/div Ref 20. | - Swept SA 50 Ω AC /9500000 GHz P IF | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Ms 100/100 Mkr1 2.478 | |
| RL RF enter Freq 2.47 Ref Offs dB/div Ref 20. | Swept SA 50 Ω AC 29500000 GHz P IF et 2.44 dB | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGN AUTO #Avg Type: R | Ms 100/100 Mkr1 2.478 | |
| RL RF enter Freq 2.47 Ref Offs dB/div Ref 20. | - Swept SA 50 Ω AC 9 9500000 GHz P P F et 2.44 dB .00 dBm | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Ms 100/100 Mkr1 2.478 | |
| RL RF enter Freq 2.47 Ref Offs dB/div Ref 20. | - Swept SA 50 Ω AC 9 9500000 GHz P P F et 2.44 dB .00 dBm | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Ms 100/100 Mkr1 2.478 | |
| RL RF A | - Swept SA 50 Ω AC 9 9500000 GHz P P F et 2.44 dB .00 dBm | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Ms 100/100 Mkr1 2.478 | |
| RL RF A | - Swept SA 50 Ω AC 9 9500000 GHz P P F et 2.44 dB .00 dBm | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Ms 100/100 Mkr1 2.478 | |
| RL RF Ciffs Ref Ciffs dB/div Ref 20. 00 00 00 00 00 00 00 00 00 | - Swept SA 50 Ω AC 9 9500000 GHz P P F et 2.44 dB .00 dBm | SENSE:IN NO: Wide 😱 Trig: | T : Free Run | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Ms 100/100 Mkr1 2.478 | |
| RL RF enter Freq 2.47 Ref Offs dB/div Ref 20. 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 <tr< td=""><td>- Swept SA 50 Ω AC 9500000 GHz P P F et 2.44 dB .00 dBm</td><td>SENSE:IN NO: Wide Trig: Gain:Low #Atte</td><td>T Free Run en: 30 dB</td><td>ALIGNAUTO #Avg Type: R Avg Hold:>10</td><td>Mkr1 2.478 -3.</td><td>RACE 12 34 5 TYPE MANNA Det 21 24 6 836 GH 940 dBr</td></tr<> | - Swept SA 50 Ω AC 9500000 GHz P P F et 2.44 dB .00 dBm | SENSE:IN NO: Wide Trig: Gain:Low #Atte | T Free Run en: 30 dB | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Mkr1 2.478 -3. | RACE 12 34 5 TYPE MANNA Det 21 24 6 836 GH 940 dBr |
| RL Ref Offs Ref Offs dB/div Ref 20. 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | - Swept SA 50 Ω AC 9500000 GHz P F et 2.44 dB 00 dBm 1 5Hz X | SENSE:IN NO: Wide Trig: Gain:Low #Atte | T Free Run en: 30 dB | ALIGNAUTO #Avg Type: R Avg Hold:>10 | Mkr1 2.478 -3. | 940 dBr |
| RL RF enter Freq 2.47 Balance Balance <td>- Swept SA 50 Ω AC 9500000 GHz P P F et 2.44 dB .00 dBm 1 .00 dBm .00 dBm .00 dBm .00 dBm</td> <td>SENSE:IN NO: Wide Trig: Gain:Low #Atte</td> <td>T Free Run en: 30 dB</td> <td>ALIGNAUTO #Avg Type: R Avg Hold>10</td> <td>Mkr1 2.478 -3.</td> <td>RACE 12 34 5 TYPE MANNA Det 21 24 6 836 GH 940 dBr</td> | - Swept SA 50 Ω AC 9500000 GHz P P F et 2.44 dB .00 dBm 1 .00 dBm .00 dBm .00 dBm .00 dBm | SENSE:IN NO: Wide Trig: Gain:Low #Atte | T Free Run en: 30 dB | ALIGNAUTO #Avg Type: R Avg Hold>10 | Mkr1 2.478 -3. | RACE 12 34 5 TYPE MANNA Det 21 24 6 836 GH 940 dBr |
| RL RF enter Freq 2.47 dB/div Ref Offs 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 < | - Swept SA 50 Ω AC 9500000 GHz P et 2.44 dB .00 dBm 1 .00 dBm 3Hz 2.478 836 GHz | SENSE:IN NO: Wide Trig: Gain:Low #Atte | T Free Run en: 30 dB | ALIGNAUTO #Avg Type: R Avg Hold>10 | Mkr1 2.478 -3. | RACE 12 34 5 TYPE MANNA Det 21 24 6 836 GH 940 dBr |
| RL RF enter Freq 2.47 enter Freq 2.47 dB/div Ref Offs 000 9 000 9 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 <td>- Swept SA 50 Ω AC 9500000 GHz P et 2.44 dB .00 dBm 1 .00 dBm 3Hz 2.478 836 GHz</td> <td>SENSE:IN NO: Wide Trig: Gain:Low #Atte</td> <td>T Free Run en: 30 dB</td> <td>ALIGNAUTO #Avg Type: R Avg Hold>10</td> <td>Mkr1 2.478 -3.</td> <td>RACE 12 34 5 TYPE MANNA Det 2010 836 GH 940 dBr</td> | - Swept SA 50 Ω AC 9500000 GHz P et 2.44 dB .00 dBm 1 .00 dBm 3Hz 2.478 836 GHz | SENSE:IN NO: Wide Trig: Gain:Low #Atte | T Free Run en: 30 dB | ALIGNAUTO #Avg Type: R Avg Hold>10 | Mkr1 2.478 -3. | RACE 12 34 5 TYPE MANNA Det 2010 836 GH 940 dBr |
| RL Ref Offs Ref Offs dB/div Ref 20. Ref 20. Re | - Swept SA 50 Ω AC 9500000 GHz P et 2.44 dB .00 dBm 1 .00 dBm 3Hz 2.478 836 GHz | SENSE:IN NO: Wide Trig: Gain:Low #Atte | T Free Run en: 30 dB | ALIGNAUTO #Avg Type: R Avg Hold>10 | Mkr1 2.478 -3. | RACE 12 34 5 TYPE MANNA Det 2010 836 GH 940 dBr |



| ilent Spectrum Analyze RL RF | 50 Ω AC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 06:42:39 PM Aug 02, 202 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enter Freq 2.40 | PI | NO: Wide 😱 Trig: Free Ru Gain:Low #Atten: 30 dE | ın Avg Hold:>100/10 | DET P N N N N |
|) dB/div Ref 20 | set 2.37 dB .00 dBm | | | Mkr1 2.401 838 GH -6.036 dBr |
| og 0.0 | | | | |
| 0.0 | | ~ | 2 | ~~~ <u>~</u> |
| | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| enter 2.402500 (Res BW 30 kHz | GHz | #VBW 100 kHz | | Span 2.000 MH Sweep 2.133 ms (1001 pts |
| KR MODE TRC SCL | × 2.401 838 GHz | Y FUNCTI | | FUNCTION VALUE |
| 2 N 1 f 3 4 | 2.402 840 GHz | -6.204 dBm | | |
| 5 | | | | |
| 8 | | | | |
| 0 | | | | > |
| G | | | STATUS | |
| ilent Spectrum Analyze | | CFS NVNT 3-DH | 11 2441MHz | |
| RL RF | F0.0 4C | | | |
| | 1500000 GHz | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 06:44:14 PM Aug 02, 203 TRACE 1 2 3 4 5 TVPE MULLAN |
| | 1500000 GHz | NO: Wide Trig: Free Ru Gain:Low #Atten: 30 dE | #Avg Type: RMS In Avg Hold:>100/10 | TRACE 12345 TYPE MWWW DET PNNNN |
| Ref Offs dB/div Ref 20 | 1500000 GHz | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS In Avg Hold:>100/10 | 06:44:14PM Aug 02, 20 TRACE 12 3 4 TYPE 12 |
| Ref Offs dB/div Ref 20 | 1500000 GHz P IF set 2.39 dB | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS in Avg Hold>100/10/ 3 | TRACE 12345 TYPE MWWW DET PNNN Mkr1 2.440 836 GH |
| enter Freq 2.44 Ref Offs | 11500000 GHz P IF et 2.39 dB .00 dBm | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS In Avg Hold:>100/10 | TRACE 12345 TYPE MWWW DET PNNN Mkr1 2.440 836 GH |
| Ref Offs o dB/div Ref 20 | 11500000 GHz P IF et 2.39 dB .00 dBm | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS in Avg Hold>100/10/ 3 | TRACE 12345 TYPE MWWW DET PNNN Mkr1 2.440 836 GH |
| Ref Offse D dB/div Ref 20 0 0 0 0 0 0 0 0 0 0 0 0 0 | 11500000 GHz P IF et 2.39 dB .00 dBm | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS in Avg Hold>100/10/ 3 | TRACE 12345 TYPE MWWW DET PNNN Mkr1 2.440 836 GH |
| Ref Offse D dB/div Ref 20 0 0 0 0 0 0 0 0 0 0 0 0 0 | 11500000 GHz P IF et 2.39 dB .00 dBm | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS in Avg Hold>100/10/ 3 | TRACE 12345 TYPE MWWW DET PNNN Mkr1 2.440 836 GH |
| Ref Offs 0 dB/div Ref 20 00 00 00 00 00 00 00 00 00 | 11500000 GHz P F 100 dBm | 10: Wide 🖵 Trig: Free Ru | #Avg Type: RMS in Avg Hold>100/10/ 3 | Mkr1 2.440 836 GH -4.443 dBr |
| Ref Offs dB/div Ref 20 Ref 0 Ref 0 Ref 0 Ref 0 Ref 20 Ref 0 Ref 20 Ref 0 Ref 20 Ref 0 Ref 20 Ref 0 Ref 20 Ref 2 | 11500000 GHz P F 100 dBm | 10: Wide 🖵 Trig: Free Ru | Avg Hold>100/10 | TRACE 12345 TYPE MWWW DET PNNN Mkr1 2.440 836 GH |
| Ref Offs Ref Offs Ref 20 Ref 2 | 11500000 GHz P P P P P P P P P P P P P | VO: Wide Gain:Low Trig: Free Ru #Atten: 30 dE | Avg Hold>100/10 | 12 84 9 Mkr1 2.440 836 GH -4.443 dBr |
| Ref Offs Ref Offs 0 dB/div Ref 20 | 11500000 GHz P P P P P P P P P P P P P | VO: Wide Gain:Low Trig: Free Ru #Atten: 30 dE | Avg Hold>100/10 | Mkr1 2.440 836 GH -4.443 dBr -4.443 dBr |
| Ref Offs 0 dB/div Ref Offs 0 dB/div Ref 20 0 dB/div Ref 20 </td <td>11500000 GHz P P P P P P P P P P P P P</td> <td>VO: Wide Gain:Low Trig: Free Ru #Atten: 30 dE</td> <td>Avg Hold>100/10</td> <td>Mkr1 2.440 836 GH -4.443 dBr -4.443 dBr</td> | 11500000 GHz P P P P P P P P P P P P P | VO: Wide Gain:Low Trig: Free Ru #Atten: 30 dE | Avg Hold>100/10 | Mkr1 2.440 836 GH -4.443 dBr -4.443 dBr |
| Ref Offs 0 dB/div Ref 20 0 dB/div Ref 20 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 | 11500000 GHz P P P P P P P P P P P P P | VO: Wide Gain:Low Trig: Free Ru #Atten: 30 dE | Avg Hold>100/10 | Mkr1 2.440 836 GH -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr -4.443 dBr |



| | CFS NVNT 3-DF | 11 2480MHz | |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|--------------------------------------------|
| Agilent Spectrum Analyzer - Swept SA | | | |
| ଆ RL RF 50 ହ AC Center Freq 2.479500000 GHz | PNO: Wide File Arten: 30 dl | | |
| Ref Offset 2.44 dB 10 dB/div Ref 20.00 dBm | II Ganzeow | | Mkr1 2.478 838 GHz -5.529 dBm |
| 10.0 0.00 | | <mark>2</mark> | |
| -10.0 | | | |
| -30.0 | | | |
| 60.0 60.0 -70.0 | | | |
| Center 2.479500 GHz #Res BW 30 kHz | #VBW 100 kHz | | Span 2.000 MH: Sweep 2.133 ms (1001 pts |
| MKR MODE TRC SCL X | Y FUNCT | ION FUNCTION WIDTH | FUNCTION VALUE |
| 1 N 1 f 2.478 838 GH 2 N 1 f 2.479 838 GH 3 | Iz -5.529 dBm Iz -6.069 dBm | | |
| 4 5 6 7 | | | |
| 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | |
| < | | I STATUS | > |

No.: BCTC/RF-EMC-007

Page: 66 of 79



13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

13.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

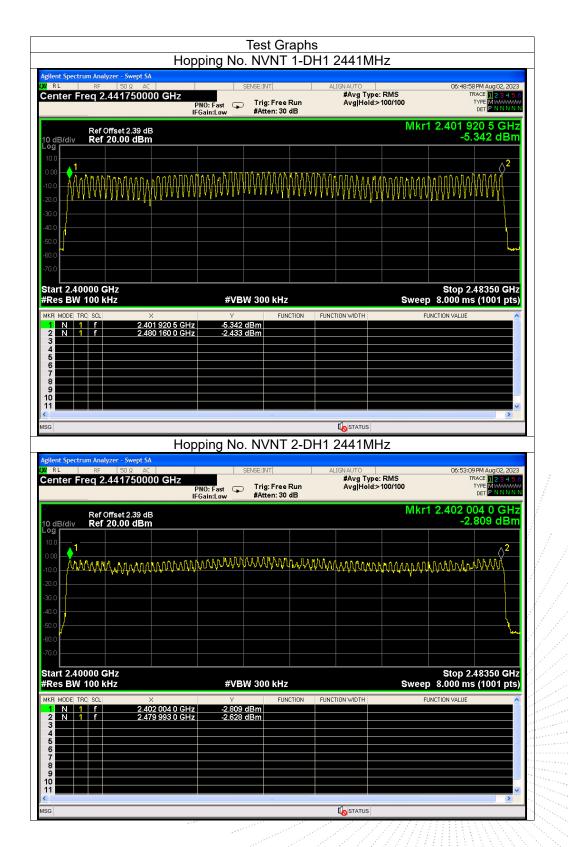
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz, Sweep=auto;

13.4 Test Result

| Condition | Mode | Hopping Number | Verdict |
|-----------|-------|----------------|---------|
| NVNT | 1-DH1 | 79 | Pass |
| NVNT | 2-DH1 | 79 | Pass |
| NVNT | 3-DH1 | 79 15 | Pass |









| Нор | ping No. NVNT 3 | 3-DH1 2441MHz | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------|---------------------------------------------------|
| | SENSE:INT PNO: Fast Trig: Free Ru FGain:Low #Atten: 30 dE | | 06:57:18PM Aug 02, 2023 TRACE 123456 TYPE M |
| Ref Offset 2.39 dB 10 dB/div Ref 20.00 dBm 10 dB/div 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 1 < | | | Икг1 2.401 837 0 GHz -2.651 dBm |
| Start 2.40000 GHz #Res BW 100 kHz | #VBW 300 kHz | S | Stop 2.48350 GHz weep 8.000 ms (1001 pts) |
| MKR MODE TCI SCL X 1 N 1 f 2.401 837 0 Hz 2 N 1 f 2.401 837 0 Hz 3 N 1 f 2.479 993 0 Hz 4 5 6 6 7 7 8 9 9 9 9 9 10 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 <t< td=""><td></td><td>ON FUNCTION WIDTH</td><td>FUNCTION VALUE</td></t<> | | ON FUNCTION WIDTH | FUNCTION VALUE |
| MSG | | STATUS | |

No.: BCTC/RF-EMC-007

Page: 69 of 79



14. Dwell Time

14.1 Block Diagram Of Test Setup



14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows: DH5:1600/79/6*0.4*79*(MkrDelta)/1000

DH3:1600/79/4*0.4*79*(MkrDelta)/1000 DH1:1600/79/2*0.4*79*(MkrDelta)/1000

Remark: Mkr Delta is once pulse time.

No.: BCTC/RF-EMC-007

Page: 70 of



| Modulation | Channel Data | Packet | pulse time(ms) | Dwell Time(s) | Limits(s) |
|------------|-----------------|--------|-------------------|------------------|-----------|
| | | 1DH1 | 0.378 | 0.121 | 0.4 |
| GFSK | Middle | 1DH3 | 1.633 | 0.261 | 0.4 |
| | | 1DH5 | 2.882 | 0.307 | 0.4 |
| | | 2DH1 | 0.385 | 0.123 | 0.4 |
| π/ 4 DQPSK | Middle | 2DH3 | 1.635 | 0.262 | 0.4 |
| | | 2DH5 | 2.880 | 0.307 | 0.4 |
| | | 3DH1 | 0.386 | 0.124 | 0.4 |
| 8DPSK | Middle | 3DH3 | 1.635 | 0.262 | 0.4 |
| | | 3DH5 | 2.885 | 0.308 | 0.4 |

| ilent Spectrum Analyzer - Swept S/ | | IVNT 1- | Test Gr DH1 24 | | One | Burst | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RL RF 50Ω AC enter Freq 2.4410000 | 00 GHz | Solution So | ENSE:INT Trig Delay Trig: Video #Atten: 30 | -500.0 µs | ALIGN AUTO #Avg Typ | e: RMS | | 4 PM Aug 02, 202 RACE 1 2 3 4 5 TYPE WWWWWW DET PNNNN |
| Ref Offset 2.39 dl dB/div Ref 20.00 dBn | | | | | | | ΔMkr1 | 378.0 μ 1.68 dΕ |
| 0 .00↓1∆2 | | | | | | | | |
| 0.0 <mark>2</mark> 0.0 | | | | | | | | TRIG LVI |
| 0.0 | | | | | | | | |
| | | | | | | | | |
| | elentelenne fitelet ^a g ^{un} e _{le} gietelegitel | da di di di dia da aku kata La parti jing da ping dia p | na de litter star de la de la de J _{al} lea de <mark>la se la de la d</mark> a de la des | n hlanden för störadet Hendra ^{den} förserade | a di sela da di Manjuna Anglas di alta di Manjuna Anglas di alta di Anglas | hteen diken keter bet bieden en jange staten ander bieden en jange staten stat | e ^{bi} l di terren direkter <mark>pri fil pil ande pil pil di t</mark> ip | <mark>o na slova presidente se se slova slova Na slova s</mark> |
| | <mark>e da ang period al ang pad</mark> | <mark>. (1996) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (199</mark> | W 3.0 MHz | n felmi konstruktion In _{fi} nd jo ^{n ka} t (or en parta) | | and <u>, blicks, it it in a</u> tom, <u>k</u> ik | <mark>, 44, 194, 194, 194, 194, 194, 194, 194,</mark> | Span 0 Hz (10001 pts |
| 100 Π Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ | <mark>e da ang period al ang pad</mark> | <mark>∔aperitananananananananananananananananananan</mark> | W 3.0 MHz | in poly ^{disi} n (a and) | | Sweep | <mark>, 44, 194, 194, 194, 194, 194, 194, 194,</mark> | Span 0 Hz |
| 100 Π Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ | × 378.0 µs (| #VBV #VBV | W 3.0 MHz | in poly ^{disi} n (ar and | nd and a same | Sweep | 10.00 ms | Span 0 Hz |
| 0.0 φμειψι φμειψιψι φμειψι φμειψιψ | × 378.0 µs (| #VBV #VBV | W 3.0 MHz | in poly ^{disi} n (ar and | nd and a same | Sweep | 10.00 ms | Span 0 Hz |



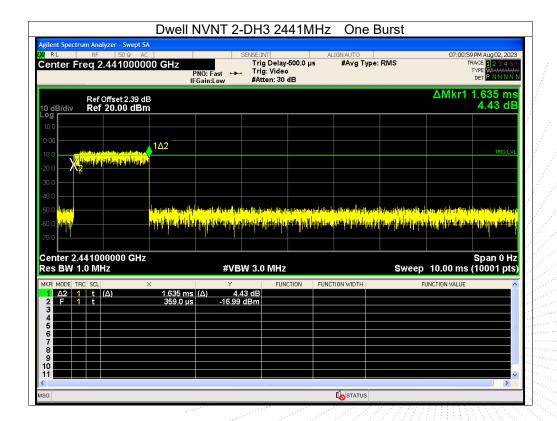
| | Dwell N | NVNT 1-DF | 1 3 2441M | lHz One | e Burst | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| gilent Spectrum Analyzer - Swept SA | | SENSE | - X4 (17) | | | 00 50 45 | |
| RL RF 50 Ω AC Center Freq 2.44100000 | 00 GHz | NO:East ↔ Ti | rig Delay-500.0 μα rig: Video Atten: 30 dB | ALIGN AUTO s #Avg Ty | rpe: RMS | TR/ | PM Aug 02, 2023 ACE 1 2 3 4 5 YPE WWWWWWW DET P N N N N |
| Ref Offset 2.39 dE | | | | | | ΔMkr1 1 | .633 ms 0.85 dE |
| 10.0 | ↓ 1∆2 | | | | | | |
| 10.0 10.0 | | | | | | | TRIG LVI |
| 20.0 | | | | | | | |
| 30.0 | | | | | | | |
| 40.0 | | المراجع المراجع المراجع المراجع | din an | nduðinut í Íslandina á samað at | and to be a compared at our to be of the | at be made also diversation | herid a hatala ha |
| 40.0 50.0 <mark>m/dda.</mark> 60.0 <mark>4/da.dl/</mark> | | alala za dulla (uni) da a du Na alala za la la alala dulla dulla | a <mark>listenie alle ditense alle Alistenie alle ditense alle ditens Alistenie alle ditense alle ditens</mark> | ala fisika kan kan kan kan basa kan sa | <mark>ingrad a</mark> the complete state physics | | |
| 40.0 | 14-04-04-04-04-04-04-04-04-04-04-04-04-04 | #United for the second se | a nakulu <u>kulu</u> (na pala na | (1947) - Angelen (1947) Alan Ingelen (1947) Alan Ingelen (1947) | | all the planet of the planet of the second s | Span 0 H: |
| 40.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | × | #vBW 3 | .0 MHz | | Sweep | | Span 0 H: 10001 pts |
| 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 | | #vBW 3 | | | Sweep | 10.00 ms (| Span 0 H |
| 400 winds. 600 winds. 600 μid winds. 600 μ | × 1.633 ms | #VBW 3 | | | Sweep | 10.00 ms (| Span 0 H: 10001 pts |
| 40.0 with 1000000 GHz 60.0 with 1000000 GHz Center 2.4410000000 GHz Res BW 1.0 MHz KR MODE TRC SCL 2 2 F 1 t (Δ) 2 2 F 1 t 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | × 1.633 ms | #VBW 3 | | | Sweep | 10.00 ms (| Span 0 H: 10001 pts |
| 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 | × 1.633 ms | #VBW 3 | | | Sweep | 10.00 ms (| Span 0 H: 10001 pts |
| 1 Δ2 1 t (Δ) 2 F 1 t 3 3 - - - - 4 - - - - 5 - - - - 6 - - - - | × 1.633 ms | #VBW 3 | | | Sweep | 10.00 ms (| Span 0 H: 10001 pts |
| 40.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 | × 1.633 ms | #VBW 3 | | | Sweep | 10.00 ms (| Span 0 H: |
| 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40 | × 1.633 ms | #VBW 3 | | | Sweep | 10.00 ms (| Span 0 H: 10001 pts |

| | Dwell NVNT 1- | -DH5 2441N | 1Hz One | Burst | | |
|---------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------|-------------|
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000 | | SENSE:INT Trig Delay-500.0 μ . Trig: Video #Atten: 30 dΒ | ALIGN AUTO Is #Avg Typ | e: RMS | 07:00:05 PM Aug (TRACE 1 2 TYPE WM DET P N | 345 |
| Ref Offset 2.39 dB 10 dB/div Ref 20.00 dBm Log | | | | | ΔMkr1 2.882 -0.4 | |
| 10.0 0.00 X2 | 1 Δ2 | | | | | TRIG LVI |
| -10.0 | | | | | | |
| -40.0 -50.0 <mark>/////</mark> | | y person it days for a support of the start in the | | | | |
| -60.0 <mark>11 (A₁₀) </mark> | na su la | , [_],[_1],[_1],[,[],[],[],[],[],[],[],[],[],[],[],[],[], | <mark>in dan bahar baha</mark> | <mark>na shekiri ka k</mark> ala | irithediset () and a state of the second | li ki li li |
| Center 2.441000000 GHz Res BW 1.0 MHz | #VB | W 3.0 MHz | | | Span 10.00 ms (1000 | |
| MKR MODE TRC SCL X 1 A2 1 t (A) 2 F 1 t 3 | 2.882 ms (Δ) -0.4 | FUNCTION 41 dB dBm | FUNCTION WIDTH | Fl | UNCTION VALUE | |
| 4 5 6 7 | | | | | | |
| 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | |
| sg | | Ш | STATUS | | | > |

No.: BCTC/RF-EMC-007

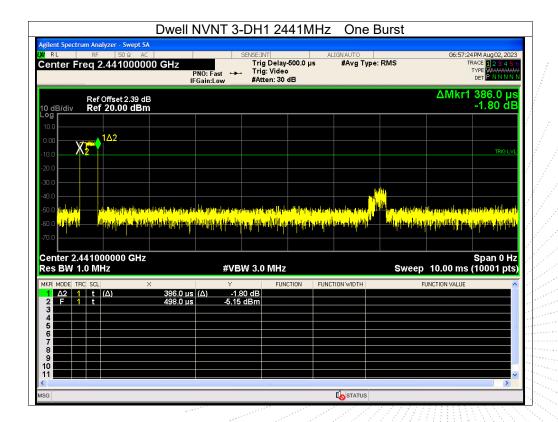


| | Dwell N | NVNT 2-D | DH1 2441N | /IHz One | Burst | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gilent Spectrum Analyzer - Swept S | | | | | | |
| RL RF 50Ω A Center Freq 2.4410000 | 00 GHz | NO:East ↔ | NSE:INT Trig Delay-500.0 Trig: Video #Atten: 30 dB | ALIGNAUTO µs #Avg Tyj | pe: RMS | 06:53:14 PM Aug 02, 202 TRACE 1 2 3 4 5 TYPE WAAAAAA DET P N N N N |
| Ref Offset 2.39 d 0 dB/div Ref 20.00 dBr | | | | | | ΔMkr1 385.0 μ -3.55 dI |
| 10.0 | | | | | | |
| | | | | | | TRIG LV |
| | | | | | | |
| 40.0 | | | | | | |
| 40.0 50.0 <mark>teterril voldugsgemätlide</mark> | | den ser di se se di se di El 1 se di se d | | desimble birden bir senekatira <mark>Julijan dan pangkan bir senekatira</mark> | alla dag da dalaki Majada kudi pin Transport pina pina pina pina pina pina pina pina | n <mark>han.</mark> N <mark>agter og blever og blever</mark> |
| 10.0 50.0 50.0 ангениза 70.0 Center 2.441000000 GHz | | alling and a second | | de sielet de se de la constantes Al tradicione de la tradicione Al tradicione de la t | | Span 0 H |
| 10.0 50.0 40.0 50.0 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 | | ^ظ ائرة إلم عرامة المعارة ا #VBW | 3.0 MHz | FUNCTION WIDTH | Sweep | Span 0 H |
| 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 2 2 | ^ظ ائرة إلم عرامة المعارة ا #VBW | 3.0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| 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 0.0 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 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 0.0 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 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 </td <td>× 385.0 µs</td> <td>#VBW</td> <td>3.0 MHz</td> <td></td> <td>Sweep</td> <td>Span 0 H 10.00 ms (10001 pt</td> | × 385.0 µs | #VBW | 3.0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| 40.0 50.0 41,0 μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ | × 385.0 µs | #VBW | 3.0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| 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 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 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 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 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 < | × 385.0 µs | #VBW | 3.0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |





| | Dwell NVNT 2- | DH5 2441MHz | One Burst | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gilent Spectrum Analyzer - Swept S/ | | | | |
| RL RF 50Ω AC Center Freq 2.44100000 | | ENSE:INT A Trig Delay-500.0 μs Trig: Video #Atten: 30 dB | ALIGN AUTO #Avg Type: RMS | 07:01:51 PM Aug 02, 202: TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N |
| Ref Offset 2.39 df 0 dB/div Ref 20.00 dBn | | | | ∆Mkr1 2.880 ms -3.05 dE |
| 10.0 0.00 | | | | |
| | | | | TRIG LVI |
| | | | | |
| 30.0 | | | | |
| 40.0 | ն տեսություն է։ ն տեսություն է։ ն տեսություն են հետություն է։ | n bay kang bang kang kang bang bang bang bang bang bang bang b | in to prior the second | ala kan sa kana da sa kata a kata Mana kata a k |
| | | ng ang ng an Ng ang ng ang | ha lagung para palan di ang manang sala da pa Mganang panang panang barga katina tang manang sala na | an an the all the all and the second states of the second states of the second states of the second states of t |
| 400 | | nin 3.0 MHz | <mark>n san plana plana dan san sa</mark> | Span 0 H |
| 400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #VBV | N 3.0 MHz | <mark>n san plana plana dan san sa</mark> | Span 0 H p 10.00 ms (10001 pts |
| 10.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | #VBV | N 3.0 MHz | Swe | Span 0 H ep 10.00 ms (10001 pt |
| 40 0 50 0 0 117 50 0 10 | × γ 2.880 ms (Δ) -3.09 | N 3.0 MHz | Swe | Span 0 H ep 10.00 ms (10001 pt |
| 40.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 50.0 1 1 A2 2 F 1 t 3 - 4 - | × γ 2.880 ms (Δ) -3.09 | N 3.0 MHz | Swe | Span 0 H ep 10.00 ms (10001 pt |
| 40.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 | × γ 2.880 ms (Δ) -3.09 | N 3.0 MHz | Swe | Span 0 H p 10.00 ms (10001 pts |
| 40.0 40.0 41.0 41.0 41.0 41.0 41.0 41.0 | × γ 2.880 ms (Δ) -3.09 | N 3.0 MHz | Swe | Span 0 H ep 10.00 ms (10001 pt |
| 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | × γ 2.880 ms (Δ) -3.09 | N 3.0 MHz | Swe | Span 0 H ep 10.00 ms (10001 pt |
| 40.0 1 60.0 1 60.0 1 60.0 1 Center 2.441000000 GHz Res BW 1.0 MHz AKR MODE TRC SCL 1 Δ2 1 t 2 F 4 - 5 - 6 - 7 - 8 - | × γ 2.880 ms (Δ) -3.09 | N 3.0 MHz | Swe | Span 0 H p 10.00 ms (10001 pts |



No.: BCTC/RF-EMC-007



| | Dwell NVNT 3 | -DH3 2441 | MHz One | Burst | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------|
| Agilent Spectrum Analyzer - Swept SA CRL RF 50 Ω AC Center Freq 2.44100000 | 0 GHz PN0: Fast IFGain:Low | SENSE:INT Trig Delay-500.0 → Trig: Video #Atten: 30 dB | ∣ ALIGNAUTO)µs #Avg Typ | e: RMS | 07:02:41 PM Aug 02, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNN |
| Ref Offset 2.39 dB 10 dB/div Ref 20.00 dBm | | | | | ΔMkr1 1.635 ms -4.54 dB |
| | 1Δ2 | | , co. I for the left of the control | | TRIG LVL |
| -10.0 -20.0 -30.0 | | | <mark></mark> | | |
| -40.0 -50.0 40 jp -60.0 11.1.1 | n de presidente de la primer de l Nature de la primer en se la primer, con la primer de la pr | dina in the contract of the second state of th | | | en television and a second |
| -70.0 | and a flath and a | | | | <u> </u> |
| Center 2.441000000 GHz Res BW 1.0 MHz | #VE | 3W 3.0 MHz | | Sweep | Span 0 Hz 10.00 ms (10001 pts) |
| MKR MODE TRC SCL X 1 Δ2 1 t (Δ) 2 F 1 t 3 | 1.635 ms (Δ) -4. | FUNCTION 54 dB dBm | FUNCTION WIDTH | FL | NCTION VALUE |
| 4 5 6 7 | | | | | |
| 8 9 10 | | | | | |
| MSG | | | STATUS | | > |

| D | well NVNT 3-DH5 | 5 2441MHz | One Burst | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agilent Spectrum Analyzer - Swept SA R RL RF 50 Ω AC Center Freq 2.441000000 G | PNO: East ↔ Trig: | | AUTO Avg Type: RMS | 07:03:33 PM Aug 02, 2023 TRACE 1 2 3 4 5 0 TYPE WWWWWW DET P N N N 1 |
| Ref Offset 2.39 dB 10 dB/div Ref 20.00 dBm | | | | ΔMkr1 2.885 ms 2.25 dB |
| 0.00 | 1Δ2 | | | |
| | | | | TRIG LVL |
| -30.0 | | | | |
| -40.0 | مريالية فالتربين مريانية | | and de besternen fersternen besteret. | |
| -60.0 | jing di pagwing li si di pagi paga ing paga ing paging jing paging jing paging | a da ma da da dina da da na si na sa na si na da n Na si na s | a shekari shekari sa kata a shekara a A shekari shekara shekara a | un del la de la casa d An al de la casa de la c |
| -50.0 Mag | Hatanau Phatanau #VBW 3.0 | n an | | والعربية المراجع المراجع Span 0 Hz 10.00 ms (10001 pts |
| 60 0 45 1 60 0 4 1 1 70 0 Сепter 2.441000000 GHz Res BW 1.0 MHz МКЯ МОДЕ [TRC] SCL Х | ۲ ۲ (۵۱۹) #VBW 3.0 | n an | Sweep | Span 0 Hz |
| 60.0 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 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 0.0 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 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 </td <td>#VBW 3.0</td> <td>na an a</td> <td>Sweep</td> <td>Span 0 H: 10.00 ms (10001 pts</td> | #VBW 3.0 | na an a | Sweep | Span 0 H: 10.00 ms (10001 pts |
| 60.0 μ μ 70.0 μ μ Center 2.441000000 GHz Les BW 1.0 MHz KKR MODE TRC SCL X 1 Δ2 1 t (Δ) 2 | ##0#476#114## #VBW 3.0 2.25 dB | na an a | Sweep | Span 0 H: 10.00 ms (10001 pts |
| 60.0 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 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 0.0 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 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 </td <td>##0#476#114## #VBW 3.0 2.25 dB</td> <td>na an a</td> <td>Sweep</td> <td>Span 0 H: 10.00 ms (10001 pts</td> | ##0#476#114## #VBW 3.0 2.25 dB | na an a | Sweep | Span 0 H: 10.00 ms (10001 pts |
| 600 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ##0#476#114## #VBW 3.0 2.25 dB | na an a | Sweep | Span 0 H; 10.00 ms (10001 pts |
| 50 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>##0#476#114## #VBW 3.0 2.25 dB</td> <td>na an a</td> <td>Sweep</td> <td>Span 0 H 10.00 ms (10001 pts</td> | ##0#476#114## #VBW 3.0 2.25 dB | na an a | Sweep | Span 0 H 10.00 ms (10001 pts |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | ##0#476#114## #VBW 3.0 2.25 dB | na an a | Sweep | Span 0 H: 10.00 ms (10001 pts |

No.: BCTC/RF-EMC-007

Page: 75 of 79



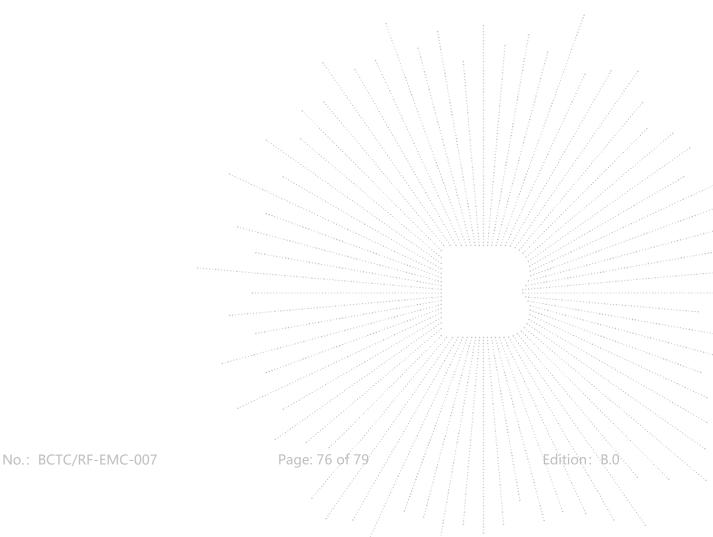
15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: 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.

15.2 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details



17. EUT Test Setup Photographs

NOTE: Appendix -Test Setup Photographs.

No.: BCTC/RF-EMC-007 Page: 78 of 79 Edition: B.0



STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

****** END *****

No.: BCTC/RF-EMC-007

Page: 79 of 7