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Report No.: SZEM180500417702  
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## **TEST REPORT**

**Application No.:** SZEM1805004177CR  
**Applicant:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Applicant:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18  
Gaoxin South 4th Ave, Nanshan District, Shenzhen, China  
**Manufacturer:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Manufacturer:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18  
Gaoxin South 4th Ave, Nanshan District, Shenzhen, China  
**Factory:** SZ DJI TECHNOLOGY CO., LTD  
**Address of Factory:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18  
Gaoxin South 4th Ave, Nanshan District, Shenzhen, China  
**Equipment Under Test (EUT):**  
**EUT Name:** C2  
**Model No.:** RC1A  
**Trade mark:** DJI  
**FCC ID:** SS3-RC1A1805  
**IC:** 11805A-RC1A1805  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
RSS-Gen Issue 5, April 2018  
RSS-247 Issue 2, February 2017  
**Date of Receipt:** 2018-05-18  
**Date of Test:** 2018-05-25 to 2018-05-28  
**Date of Issue:** 2018-06-15

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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



Keny Xu  
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2018-06-15 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                                                                                     |  |  |
|--------------------------|--|-------------------------------------------------------------------------------------|--|--|
| Authorized for issue by: |  |                                                                                     |  |  |
|                          |  |    |  |  |
|                          |  | <hr/>                                                                               |  |  |
|                          |  | Hank Yan /Project Engineer                                                          |  |  |
|                          |  |  |  |  |
|                          |  | <hr/>                                                                               |  |  |
|                          |  | Eric Fu /Reviewer                                                                   |  |  |



## 2 Test Summary

| Radio Spectrum Technical Requirement |                                                   |        |                                                                   |        |
|--------------------------------------|---------------------------------------------------|--------|-------------------------------------------------------------------|--------|
| Item                                 | Standard                                          | Method | Requirement                                                       | Result |
| Antenna Requirement                  | 47 CFR Part 15, Subpart C 15.247; RSS-Gen Issue 5 | N/A    | 47 CFR Part 15, Subpart C 15.203 & 15.247(c); RSS-Gen Section 6.8 | Pass   |

| Radio Spectrum Matter Part                            |                                                   |                                        |                                                                                      |        |
|-------------------------------------------------------|---------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------|--------|
| Item                                                  | Standard                                          | Method                                 | Requirement                                                                          | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz)   | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 6.2         | 47 CFR Part 15, Subpart C 15.207; RSS-Gen Section 8.8                                | Pass   |
| Minimum 6dB Bandwidth                                 | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 11.8.1      | 47 CFR Part 15, Subpart C 15.247a(2); RSS-247 Section 5.2(a)                         | Pass   |
| 99% Bandwidth                                         | RSS-247 Issue 2, February 2017                    | ANSI C63.10 Section 6.9.3              | RSS-Gen Section 6.7                                                                  | Pass   |
| Conducted Output Power (Average)                      | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 11.9.1      | 47 CFR Part 15, Subpart C 15.247(b)(3); RSS-247 Section 5.4(d)                       | Pass   |
| Power Spectrum Density                                | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 11.10.2     | 47 CFR Part 15, Subpart C 15.247(e); RSS-247 Clause 5.2(b)                           | Pass   |
| Conducted Band Edges Measurement                      | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 11.13.3.2   | 47 CFR Part 15, Subpart C 15.247(d); RSS-247 Section 5.5                             | Pass   |
| Conducted Spurious Emissions                          | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 11.11       | 47 CFR Part 15, Subpart C 15.247(d); RSS-247 Section 5.5                             | Pass   |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 6.10.5      | 47 CFR Part 15, Subpart C 15.205 & 15.209; Section 3.3 & RSS-Gen Section 8.9         | Pass   |
| Radiated Spurious Emissions                           | 47 CFR Part 15, Subpart C 15.247; RSS-247 Issue 2 | ANSI C63.10 (2013) Section 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209; RSS-247 Section 3.3 & RSS-Gen Section 8.9 | Pass   |



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## 4 General Information

### 4.1 Details of E.U.T.

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Power supply:        | DC 3.83V Li-ion Battery                                                                                  |
| Cable:               | Micro-USB to lightning cable: 9.5cm<br>USB Type-C cable: 100cm                                           |
| Operation Frequency: | 1.4MHz BW: 2403.5MHz ~ 2477.5MHz<br>10MHz BW: 2405.5MHz to 2477.5MHz<br>20MHz BW: 2410.5MHz to 2472.5MHz |
| Modulation Type:     | 1.4MHz BW: OFDM<br>10MHz BW: OFDM<br>20MHz BW: OFDM                                                      |
| Number of Channels:  | 1.4MHz BW: 38<br>10MHz BW: 73<br>20MHz BW: 63                                                            |
| Channel Spacing:     | 1.4MHz BW: 2MHz<br>10MHz BW: 1MHz<br>20MHz BW: 1MHz                                                      |
| Antenna Type:        | PCB Antenna                                                                                              |
| Antenna Gain:        | 5dBi                                                                                                     |

#### Channel List and nominal power for 1.4MHz BW

| CH No.             | Fre. (MHz) | Nominal Power (EIRP) (dBm) | CH No.              | Fre. (MHz) | Nominal Power (EIRP) (dBm) | CH No.              | Fre. (MHz) | Nominal Power (EIRP) (dBm) |
|--------------------|------------|----------------------------|---------------------|------------|----------------------------|---------------------|------------|----------------------------|
| 1 <sup>a b c</sup> | 2403.5     | 25.5                       | 14                  | 2429.5     | 25.5                       | 27                  | 2455.5     | 25.5                       |
| 2                  | 2405.5     | 25.5                       | 15                  | 2431.5     | 25.5                       | 28                  | 2457.5     | 25.5                       |
| 3                  | 2407.5     | 25.5                       | 16                  | 2433.5     | 25.5                       | 29                  | 2459.5     | 25.5                       |
| 4                  | 2409.5     | 25.5                       | 17                  | 2435.5     | 25.5                       | 30                  | 2461.5     | 25.5                       |
| 5                  | 2411.5     | 25.5                       | 18                  | 2437.5     | 25.5                       | 31                  | 2463.5     | 25.5                       |
| 6                  | 2413.5     | 25.5                       | 19                  | 2439.5     | 25.5                       | 32                  | 2465.5     | 25.5                       |
| 7                  | 2415.5     | 25.5                       | 20 <sup>a b c</sup> | 2441.5     | 25.5                       | 33                  | 2467.5     | 25.5                       |
| 8                  | 2417.5     | 25.5                       | 21                  | 2443.5     | 25.5                       | 34                  | 2469.5     | 25.5                       |
| 9                  | 2419.5     | 25.5                       | 22                  | 2445.5     | 25.5                       | 35                  | 2471.5     | 25.5                       |
| 10                 | 2421.5     | 25.5                       | 23                  | 2447.5     | 25.5                       | 36                  | 2473.5     | 25.5                       |
| 11                 | 2423.5     | 25.5                       | 24                  | 2449.5     | 25.5                       | 37                  | 2475.5     | 25.5                       |
| 12                 | 2425.5     | 25.5                       | 25                  | 2451.5     | 25.5                       | 38 <sup>a b c</sup> | 2477.5     | 25.5                       |
| 13                 | 2427.5     | 25.5                       | 26                  | 2453.5     | 25.5                       |                     |            |                            |

Note a: Channels chosen for RF conducted test.

Note b: Channels chosen for Radiated spurious emission

Note c: Channels chosen for Radiated Emissions which fall in the restricted bands test



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| Channel List and nominal power for 10MHz BW                                            |            |                            |                   |            |                            |                       |            |                            |
|----------------------------------------------------------------------------------------|------------|----------------------------|-------------------|------------|----------------------------|-----------------------|------------|----------------------------|
| CH No.                                                                                 | Fre. (MHz) | Nominal Power (EIRP) (dBm) | CH No.            | Fre. (MHz) | Nominal Power (EIRP) (dBm) | CH No.                | Fre. (MHz) | Nominal Power (EIRP) (dBm) |
| 1 <sup>a b c d</sup>                                                                   | 2405.5     | 14.5                       | 26                | 2430.5     | 22.5                       | 51 <sup>b c d</sup>   | 2455.5     | 22.5                       |
| 2                                                                                      | 2406.5     | 15.5                       | 27                | 2431.5     | 22.5                       | 52                    | 2456.5     | 21.5                       |
| 3                                                                                      | 2407.5     | 16.5                       | 28                | 2432.5     | 22.5                       | 53                    | 2457.5     | 21.5                       |
| 4 <sup>b</sup>                                                                         | 2408.5     | 17.5                       | 29                | 2433.5     | 22.5                       | 54                    | 2458.5     | 20.5                       |
| 5 <sup>c d</sup>                                                                       | 2409.5     | 18.5                       | 30                | 2434.5     | 22.5                       | 55 <sup>b c d</sup>   | 2459.5     | 20.5                       |
| 6                                                                                      | 2410.5     | 18.5                       | 31                | 2435.5     | 22.5                       | 56                    | 2460.5     | 19.5                       |
| 7                                                                                      | 2411.5     | 19.5                       | 32                | 2436.5     | 22.5                       | 57                    | 2461.5     | 19.5                       |
| 8                                                                                      | 2412.5     | 19.5                       | 33                | 2437.5     | 22.5                       | 58                    | 2462.5     | 18.5                       |
| 9                                                                                      | 2413.5     | 20.5                       | 34                | 2438.5     | 22.5                       | 59 <sup>b</sup>       | 2463.5     | 18.5                       |
| 10                                                                                     | 2414.5     | 20.5                       | 35                | 2439.5     | 22.5                       | 60 <sup>b</sup>       | 2464.5     | 17.5                       |
| 11 <sup>b</sup>                                                                        | 2415.5     | 21.5                       | 36                | 2440.5     | 22.5                       | 61                    | 2465.5     | 17.5                       |
| 12                                                                                     | 2416.5     | 21.5                       | 37 <sup>a c</sup> | 2441.5     | 22.5                       | 62                    | 2466.5     | 16.5                       |
| 13 <sup>b c d</sup>                                                                    | 2417.5     | 22.5                       | 38                | 2442.5     | 22.5                       | 63 <sup>b c d</sup>   | 2467.5     | 16.5                       |
| 14                                                                                     | 2418.5     | 22.5                       | 39                | 2443.5     | 22.5                       | 64                    | 2468.5     | 15.5                       |
| 15                                                                                     | 2419.5     | 22.5                       | 40                | 2444.5     | 22.5                       | 65 <sup>b c d</sup>   | 2469.5     | 13.5                       |
| 16                                                                                     | 2420.5     | 22.5                       | 41                | 2445.5     | 22.5                       | 66                    | 2470.5     | 11.5                       |
| 17                                                                                     | 2421.5     | 22.5                       | 42                | 2446.5     | 22.5                       | 67 <sup>b c d</sup>   | 2471.5     | 9.5                        |
| 18                                                                                     | 2422.5     | 22.5                       | 43                | 2447.5     | 22.5                       | 68 <sup>b</sup>       | 2472.5     | 7.5                        |
| 19                                                                                     | 2423.5     | 22.5                       | 44                | 2448.5     | 22.5                       | 69                    | 2473.5     | 6.5                        |
| 20                                                                                     | 2424.5     | 22.5                       | 45                | 2449.5     | 22.5                       | 70                    | 2474.5     | 5.5                        |
| 21                                                                                     | 2425.5     | 22.5                       | 46                | 2450.5     | 22.5                       | 71                    | 2475.5     | 5.5                        |
| 22                                                                                     | 2426.5     | 22.5                       | 47                | 2451.5     | 22.5                       | 72 <sup>b c d</sup>   | 2476.5     | 4.5                        |
| 23                                                                                     | 2427.5     | 22.5                       | 48                | 2452.5     | 22.5                       | 73 <sup>a b c d</sup> | 2477.5     | -11.5                      |
| 24                                                                                     | 2428.5     | 22.5                       | 49                | 2453.5     | 22.5                       |                       |            |                            |
| 25                                                                                     | 2429.5     | 22.5                       | 50                | 2454.5     | 22.5                       |                       |            |                            |
| Note a: Channels chosen for RF conducted test.                                         |            |                            |                   |            |                            |                       |            |                            |
| Note b: Additional channel for maximum output power test.                              |            |                            |                   |            |                            |                       |            |                            |
| Note c: Channels chosen for Radiated spurious emission                                 |            |                            |                   |            |                            |                       |            |                            |
| Note d: Channels chosen for Radiated Emissions which fall in the restricted bands test |            |                            |                   |            |                            |                       |            |                            |



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| Channel List and nominal power for 20MHz BW                                                                                                                                                                                                                     |            |                            |                       |            |                            |                       |            |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|-----------------------|------------|----------------------------|-----------------------|------------|----------------------------|
| CH No.                                                                                                                                                                                                                                                          | Fre. (MHz) | Nominal Power (EIRP) (dBm) | CH No.                | Fre. (MHz) | Nominal Power (EIRP) (dBm) | CH No.                | Fre. (MHz) | Nominal Power (EIRP) (dBm) |
| 1 <sup>a b c d</sup>                                                                                                                                                                                                                                            | 2410.5     | 8.5                        | 22                    | 2431.5     | 20.5                       | 43                    | 2452.5     | 16.5                       |
| 2                                                                                                                                                                                                                                                               | 2411.5     | 9.5                        | 23                    | 2432.5     | 21.5                       | 44                    | 2453.5     | 16.5                       |
| 3                                                                                                                                                                                                                                                               | 2412.5     | 10.5                       | 24                    | 2433.5     | 21.5                       | 45                    | 2454.5     | 15.5                       |
| 4                                                                                                                                                                                                                                                               | 2413.5     | 11.5                       | 25 <sup>b c d</sup>   | 2434.5     | 22.5                       | 46                    | 2455.5     | 15.5                       |
| 5 <sup>b</sup>                                                                                                                                                                                                                                                  | 2414.5     | 11.5                       | 26                    | 2435.5     | 22.5                       | 47                    | 2456.5     | 15.5                       |
| 6 <sup>c d</sup>                                                                                                                                                                                                                                                | 2415.5     | 12.5                       | 27                    | 2436.5     | 22.5                       | 48                    | 2457.5     | 14.5                       |
| 7                                                                                                                                                                                                                                                               | 2416.5     | 13.5                       | 28                    | 2437.5     | 22.5                       | 49 <sup>b c d</sup>   | 2458.5     | 14.5                       |
| 8                                                                                                                                                                                                                                                               | 2417.5     | 14.5                       | 29                    | 2438.5     | 22.5                       | 50 <sup>b</sup>       | 2459.5     | 13.5                       |
| 9                                                                                                                                                                                                                                                               | 2418.5     | 15.5                       | 30                    | 2439.5     | 22.5                       | 51                    | 2460.5     | 13.5                       |
| 10 <sup>b</sup>                                                                                                                                                                                                                                                 | 2419.5     | 15.5                       | 31                    | 2440.5     | 22.5                       | 52                    | 2461.5     | 12.5                       |
| 11 <sup>b c d</sup>                                                                                                                                                                                                                                             | 2420.5     | 16.5                       | 32 <sup>a b c d</sup> | 2441.5     | 22.5                       | 53                    | 2462.5     | 12.5                       |
| 12                                                                                                                                                                                                                                                              | 2421.5     | 16.5                       | 33 <sup>b</sup>       | 2442.5     | 21.5                       | 54                    | 2463.5     | 11.5                       |
| 13                                                                                                                                                                                                                                                              | 2422.5     | 16.5                       | 34                    | 2443.5     | 21.5                       | 55 <sup>b c d</sup>   | 2464.5     | 10.5                       |
| 14                                                                                                                                                                                                                                                              | 2423.5     | 17.5                       | 35                    | 2444.5     | 20.5                       | 56 <sup>b</sup>       | 2465.5     | 9.5                        |
| 15                                                                                                                                                                                                                                                              | 2424.5     | 17.5                       | 36                    | 2445.5     | 20.5                       | 57                    | 2466.5     | 9.5                        |
| 16                                                                                                                                                                                                                                                              | 2425.5     | 18.5                       | 37                    | 2446.5     | 19.5                       | 58                    | 2467.5     | 9.5                        |
| 17                                                                                                                                                                                                                                                              | 2426.5     | 18.5                       | 38                    | 2447.5     | 19.5                       | 59                    | 2468.5     | 8.5                        |
| 18                                                                                                                                                                                                                                                              | 2427.5     | 18.5                       | 39 <sup>b c d</sup>   | 2448.5     | 18.5                       | 60                    | 2469.5     | 8.5                        |
| 19                                                                                                                                                                                                                                                              | 2428.5     | 19.5                       | 40                    | 2449.5     | 18.5                       | 61                    | 2470.5     | 7.5                        |
| 20                                                                                                                                                                                                                                                              | 2429.5     | 19.5                       | 41 <sup>b</sup>       | 2450.5     | 17.5                       | 62 <sup>b c d</sup>   | 2471.5     | 6.5                        |
| 21 <sup>b c d</sup>                                                                                                                                                                                                                                             | 2430.5     | 20.5                       | 42                    | 2451.5     | 17.5                       | 63 <sup>a b c d</sup> | 2472.5     | -2.5                       |
| Note a: Channels chosen for RF conducted test.<br>Note b: Additional channel for maximum output power test.<br>Note c: Channels chosen for Radiated spurious emission<br>Note d: Channels chosen for Radiated Emissions which fall in the restricted bands test |            |                            |                       |            |                            |                       |            |                            |

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty         |
|-----|---------------------------------|---------------------------------|
| 1   | Radio Frequency                 | $\pm 7.25 \times 10^{-8}$       |
| 2   | Duty cycle                      | $\pm 0.37\%$                    |
| 3   | Occupied Bandwidth              | $\pm 3\%$                       |
| 4   | RF conducted power              | $\pm 0.75\text{dB}$             |
| 5   | RF power density                | $\pm 2.84\text{dB}$             |
| 6   | Conducted Spurious emissions    | $\pm 0.75\text{dB}$             |
| 7   | RF Radiated power               | $\pm 4.5\text{dB}$ (below 1GHz) |
|     |                                 | $\pm 4.8\text{dB}$ (above 1GHz) |
| 8   | Radiated Spurious emission test | $\pm 4.5\text{dB}$ (Below 1GHz) |
|     |                                 | $\pm 4.8\text{dB}$ (Above 1GHz) |
| 9   | Temperature test                | $\pm 1^\circ\text{C}$           |
| 10  | Humidity test                   | $\pm 3\%$                       |
| 11  | Supply voltages                 | $\pm 1.5\%$                     |
| 12  | Time                            | $\pm 3\%$                       |



#### **4.4 Test Location**

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.  
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### **4.5 Test Facility**

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

- **CNAS (No. CNAS L2929)**

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

- **A2LA (Certificate No. 3816.01)**

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

- **VCCI**

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

- **FCC –Designation Number: CN1178**

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

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

- **Industry Canada (IC)**

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

#### **4.6 Deviation from Standards**

None

#### **4.7 Abnormalities from Standard Conditions**

None



## 5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) |                  |               |              |            |              |
|-----------------------------------------------------|------------------|---------------|--------------|------------|--------------|
| Equipment                                           | Manufacturer     | Model No      | Inventory No | Cal Date   | Cal Due Date |
| Shielding Room                                      | ZhongYu Electron | GB-88         | SEM001-06    | 2017-05-10 | 2020-05-09   |
| Measurement Software                                | AUDIX            | e3 V5.4.1221d | N/A          | N/A        | N/A          |
| Coaxial Cable                                       | SGS              | N/A           | SEM024-01    | 2017-07-13 | 2018-07-12   |
| LISN                                                | Rohde & Schwarz  | ENV216        | SEM007-01    | 2017-09-27 | 2018-09-26   |
| LISN                                                | ETS-LINDGREN     | 3816/2        | SEM007-02    | 2018-04-02 | 2019-04-01   |
| EMI Test Receiver                                   | Rohde & Schwarz  | ESCI          | SEM004-02    | 2018-04-02 | 2019-04-01   |

| Minimum 6dB Bandwidth |                      |                         |              |            |              |
|-----------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment             | Manufacturer         | Model No                | Inventory No | Cal Date   | Cal Due Date |
| DC Power Supply       | ZhaoXin              | RXN-305D                | SEM011-02    | 2017-09-27 | 2018-09-26   |
| Spectrum Analyzer     | Rohde & Schwarz      | FSP                     | SEM004-06    | 2017-09-27 | 2018-09-26   |
| Measurement Software  | JS Tonscend          | JS1120-2<br>BT/WIFI V2. | N/A          | N/A        | N/A          |
| Coaxial Cable         | SGS                  | N/A                     | SEM031-02    | 2017-07-13 | 2018-07-12   |
| Attenuator            | Weinschel Associates | WA41                    | SEM021-09    | N/A        | N/A          |
| Signal Generator      | KEYSIGHT             | N5173B                  | SEM006-05    | 2017-09-27 | 2018-09-26   |
| Power Meter           | Rohde & Schwarz      | NRVS                    | SEM014-02    | 2017-09-27 | 2018-09-26   |

| Conducted Output Power (Average) |                      |                         |              |            |              |
|----------------------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment                        | Manufacturer         | Model No                | Inventory No | Cal Date   | Cal Due Date |
| DC Power Supply                  | ZhaoXin              | RXN-305D                | SEM011-02    | 2017-09-27 | 2018-09-26   |
| Spectrum Analyzer                | Rohde & Schwarz      | FSP                     | SEM004-06    | 2017-09-27 | 2018-09-26   |
| Measurement Software             | JS Tonscend          | JS1120-2<br>BT/WIFI V2. | N/A          | N/A        | N/A          |
| Coaxial Cable                    | SGS                  | N/A                     | SEM031-02    | 2017-07-13 | 2018-07-12   |
| Attenuator                       | Weinschel Associates | WA41                    | SEM021-09    | N/A        | N/A          |
| Signal Generator                 | KEYSIGHT             | N5173B                  | SEM006-05    | 2017-09-27 | 2018-09-26   |
| Power Meter                      | Rohde & Schwarz      | NRVS                    | SEM014-02    | 2017-09-27 | 2018-09-26   |

| Power Spectrum Density |                      |                         |              |            |              |
|------------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment              | Manufacturer         | Model No                | Inventory No | Cal Date   | Cal Due Date |
| DC Power Supply        | ZhaoXin              | RXN-305D                | SEM011-02    | 2017-09-27 | 2018-09-26   |
| Spectrum Analyzer      | Rohde & Schwarz      | FSP                     | SEM004-06    | 2017-09-27 | 2018-09-26   |
| Measurement Software   | JS Tonscend          | JS1120-2<br>BT/WIFI V2. | N/A          | N/A        | N/A          |
| Coaxial Cable          | SGS                  | N/A                     | SEM031-02    | 2017-07-13 | 2018-07-12   |
| Attenuator             | Weinschel Associates | WA41                    | SEM021-09    | N/A        | N/A          |
| Signal Generator       | KEYSIGHT             | N5173B                  | SEM006-05    | 2017-09-27 | 2018-09-26   |
| Power Meter            | Rohde & Schwarz      | NRVS                    | SEM014-02    | 2017-09-27 | 2018-09-26   |



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| Conducted Band Edges Measurement |                      |                         |              |            |              |
|----------------------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment                        | Manufacturer         | Model No                | Inventory No | Cal Date   | Cal Due Date |
| DC Power Supply                  | ZhaoXin              | RXN-305D                | SEM011-02    | 2017-09-27 | 2018-09-26   |
| Spectrum Analyzer                | Rohde & Schwarz      | FSP                     | SEM004-06    | 2017-09-27 | 2018-09-26   |
| Measurement Software             | JS Tonscend          | JS1120-2<br>BT/WIFI V2. | N/A          | N/A        | N/A          |
| Coaxial Cable                    | SGS                  | N/A                     | SEM031-02    | 2017-07-13 | 2018-07-12   |
| Attenuator                       | Weinschel Associates | WA41                    | SEM021-09    | N/A        | N/A          |
| Signal Generator                 | KEYSIGHT             | N5173B                  | SEM006-05    | 2017-09-27 | 2018-09-26   |
| Power Meter                      | Rohde & Schwarz      | NRVS                    | SEM014-02    | 2017-09-27 | 2018-09-26   |

| Conducted Spurious Emissions |                      |                         |              |            |              |
|------------------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment                    | Manufacturer         | Model No                | Inventory No | Cal Date   | Cal Due Date |
| DC Power Supply              | ZhaoXin              | RXN-305D                | SEM011-02    | 2017-09-27 | 2018-09-26   |
| Spectrum Analyzer            | Rohde & Schwarz      | FSP                     | SEM004-06    | 2017-09-27 | 2018-09-26   |
| Measurement Software         | JS Tonscend          | JS1120-2<br>BT/WIFI V2. | N/A          | N/A        | N/A          |
| Coaxial Cable                | SGS                  | N/A                     | SEM031-02    | 2017-07-13 | 2018-07-12   |
| Attenuator                   | Weinschel Associates | WA41                    | SEM021-09    | N/A        | N/A          |
| Signal Generator             | KEYSIGHT             | N5173B                  | SEM006-05    | 2017-09-27 | 2018-09-26   |
| Power Meter                  | Rohde & Schwarz      | NRVS                    | SEM014-02    | 2017-09-27 | 2018-09-26   |

| Radiated Emissions which fall in the restricted bands |                                    |                   |              |            |              |
|-------------------------------------------------------|------------------------------------|-------------------|--------------|------------|--------------|
| Equipment                                             | Manufacturer                       | Model No          | Inventory No | Cal Date   | Cal Due Date |
| 3m Semi-Anechoic Chamber                              | AUDIX                              | N/A               | SEM001-02    | 2018-03-13 | 2021-03-12   |
| Measurement Software                                  | AUDIX                              | e3 V8.2014-6-27   | N/A          | N/A        | N/A          |
| Coaxial Cable                                         | SGS                                | N/A               | SEM026-01    | 2017-07-13 | 2018-07-12   |
| Spectrum Analyzer                                     | Rohde & Schwarz                    | FSU43             | SEM004-08    | 2018-04-02 | 2019-04-01   |
| BiConiLog Antenna (26-3000MHz)                        | ETS-Lindgren                       | 3142C             | SEM003-01    | 2017-06-27 | 2020-06-26   |
| Horn Antenna (1-18GHz)                                | Rohde & Schwarz                    | HF907             | SEM003-07    | 2018-04-13 | 2021-04-12   |
| Horn Antenna(15GHz-40GHz)                             | Schwarzbeck                        | BBHA 9170         | SEM003-15    | 2017-10-17 | 2020-10-16   |
| Pre-amplifier (0.1-1300MHz)                           | HP                                 | 8447D             | SEM005-02    | 2017-09-27 | 2018-09-26   |
| Low Noise Amplifier(100MHz-18GHz)                     | Black Diamond Series               | BDLNA-0118-352810 | SEM005-05    | 2017-09-27 | 2018-09-27   |
| Pre-amplifier(18-26GHz)                               | Rohde & Schwarz                    | CH14-H052         | SEM005-17    | 2018-04-02 | 2019-04-01   |
| Pre-amplifier(26GHz-40GHz)                            | Compliance Directions Systems Inc. | PAP-2640-50       | SEM005-08    | 2018-04-02 | 2019-04-01   |
| DC Power Supply                                       | Zhao Xin                           | RXN-305D          | SEM011-02    | 2017-09-27 | 2018-09-26   |

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|                     |              |      |           |            |            |
|---------------------|--------------|------|-----------|------------|------------|
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Band filter         | N/A          | N/A  | SEM023-01 | N/A        | N/A        |

## Radiated Spurious Emissions

| Equipment                         | Manufacturer                       | Model No          | Inventory No | Cal Date   | Cal Due Date |
|-----------------------------------|------------------------------------|-------------------|--------------|------------|--------------|
| 3m Semi-Anechoic Chamber          | AUDIX                              | N/A               | SEM001-02    | 2018-03-13 | 2021-03-12   |
| Measurement Software              | AUDIX                              | e3 V8.2014-6-27   | N/A          | N/A        | N/A          |
| Coaxial Cable                     | SGS                                | N/A               | SEM026-01    | 2017-07-13 | 2018-07-12   |
| Spectrum Analyzer                 | Rohde & Schwarz                    | FSU43             | SEM004-08    | 2018-04-02 | 2019-04-01   |
| BiConiLog Antenna (26-3000MHz)    | ETS-Lindgren                       | 3142C             | SEM003-01    | 2017-06-27 | 2020-06-26   |
| Horn Antenna (1-18GHz)            | Rohde & Schwarz                    | HF907             | SEM003-07    | 2018-04-13 | 2021-04-12   |
| Horn Antenna(15GHz-40GHz)         | Schwarzbeck                        | BBHA 9170         | SEM003-15    | 2017-10-17 | 2020-10-16   |
| Pre-amplifier (0.1-1300MHz)       | HP                                 | 8447D             | SEM005-02    | 2017-09-27 | 2018-09-26   |
| Low Noise Amplifier(100MHz-18GHz) | Black Diamond Series               | BDLNA-0118-352810 | SEM005-05    | 2017-09-27 | 2018-09-27   |
| Pre-amplifier(18-26GHz)           | Rohde & Schwarz                    | CH14-H052         | SEM005-17    | 2018-04-02 | 2019-04-01   |
| Pre-amplifier(26GHz-40GHz)        | Compliance Directions Systems Inc. | PAP-2640-50       | SEM005-08    | 2018-04-02 | 2019-04-01   |
| DC Power Supply                   | Zhao Xin                           | RXN-305D          | SEM011-02    | 2017-09-27 | 2018-09-26   |
| Active Loop Antenna               | ETS-Lindgren                       | 6502              | SEM003-08    | 2017-08-22 | 2020-08-21   |
| Band filter                       | N/A                                | N/A               | SEM023-01    | N/A        | N/A          |

## General used equipment

| Equipment                       | Manufacturer                              | Model No | Inventory No | Cal Date   | Cal Due Date |
|---------------------------------|-------------------------------------------|----------|--------------|------------|--------------|
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory  | ZJ1-2B   | SEM002-03    | 2017-09-29 | 2018-09-28   |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory  | ZJ1-2B   | SEM002-04    | 2017-09-29 | 2018-09-28   |
| Humidity/ Temperature Indicator | Mingle                                    | N/A      | SEM002-08    | 2017-09-29 | 2018-09-28   |
| Barometer                       | Changchun Meteorological Industry Factory | DYM3     | SEM002-01    | 2018-04-08 | 2019-04-07   |



## **6 Radio Spectrum Technical Requirement**

### **6.1 Antenna Requirement**

#### **6.1.1 Test Requirement:**

47 CFR Part 15, Subpart C 15.203 & 15.247(c); RSS-Gen Section 6.8

#### **6.1.2 Conclusion**

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna (Refer to EUT photos):

The antenna is integrated on the main PCB and no consideration of replacement. The best-case gain of the antenna is 5dBi. The product has two antennas, but only one antenna is used to transmit signal at any time. Pre-test was used to find out the worst case, and only the data of worst case is recorded in the report.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207; RSS-Gen Section 8.8  
Test Method: ANSI C63.10 (2013) Section 6.2  
Limit:

| Frequency of emission(MHz) | Conducted limit(dBμV) |           |
|----------------------------|-----------------------|-----------|
|                            | Quasi-peak            | Average   |
| 0.15-0.5                   | 66 to 56*             | 56 to 46* |
| 0.5-5                      | 56                    | 46        |
| 5-30                       | 60                    | 50        |

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

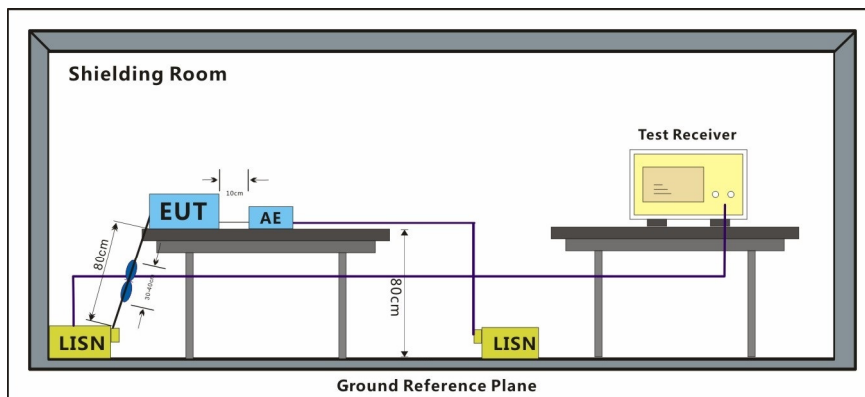
Operating Environment:

Temperature: 24.3 °C Humidity: 45.1 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:  
a:TX mode\_Keep the EUT in continuously transmitting mode with modulation  
b:Charge + TX mode\_Keep the EUT in charging and continuously transmitting mode with modulation.

The worst case for final test: b:Charge + TX mode\_Keep the EUT in charging and continuously transmitting mode with modulation.

#### 7.1.2 Test Setup Diagram



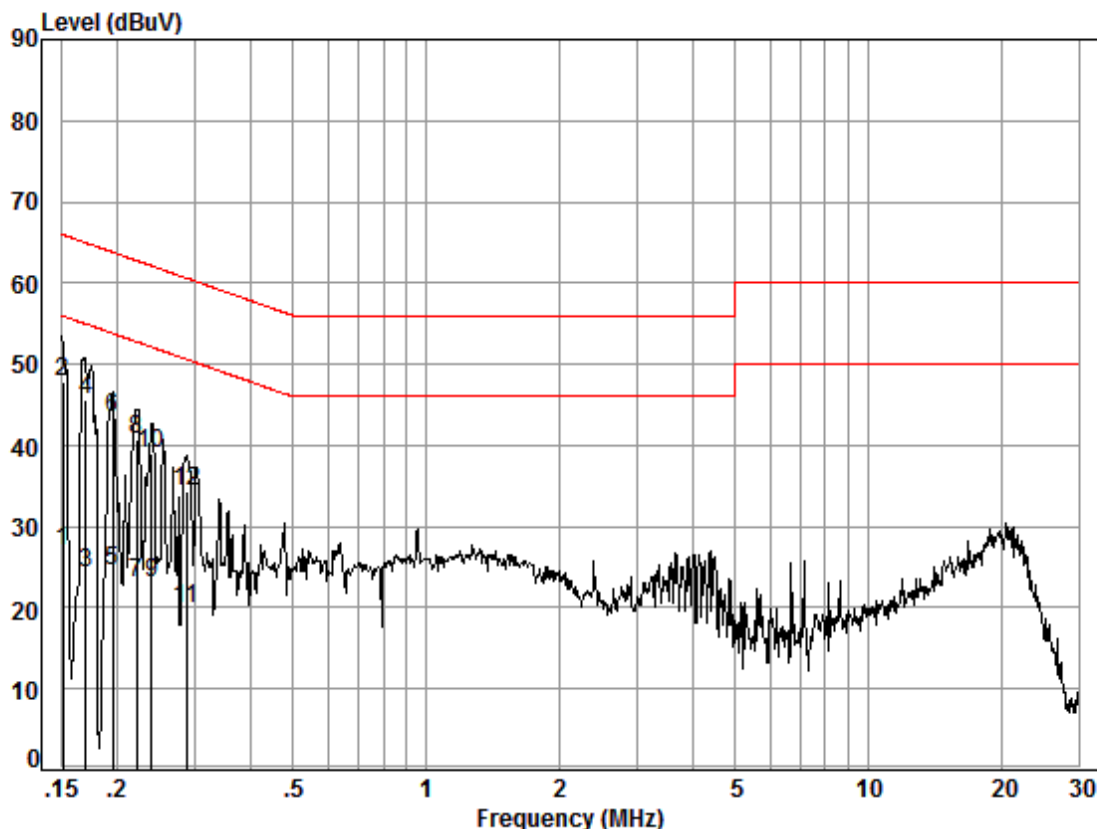
### **7.1.3 Measurement Procedure and Data**

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Pre-test was performed on each mode at the lowest, middle and highest channel, and found 1.4MHz BW mode at the middle channel is the worst case. So, only the data of that case is recorded in the report.

Mode:b; Line:Live Line



Site : Shielding Room

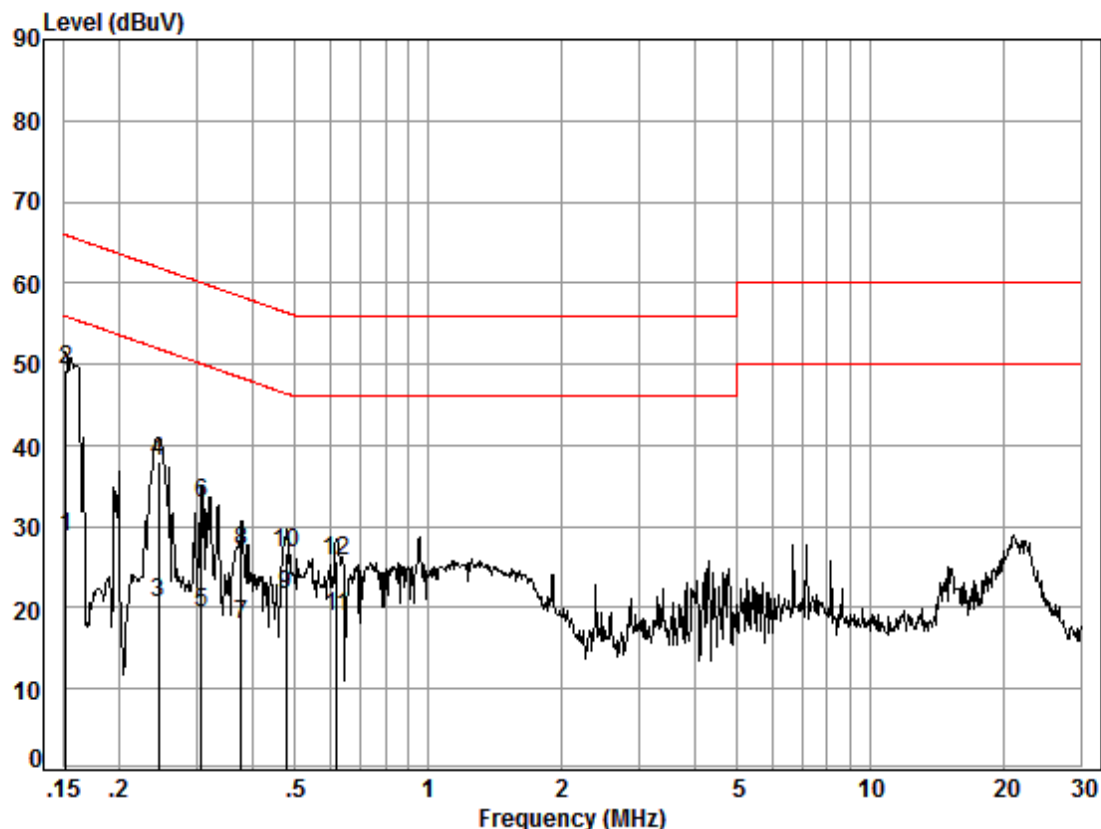
Condition: Line

Job No. : 04177CR

Test mode: b

|    | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark  |
|----|------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz  | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |         |
| 1  | 0.15 | 0.02       | 9.51        | 17.55      | 27.08 | 55.94      | -28.86     | Average |
| 2  | 0.15 | 0.02       | 9.51        | 38.20      | 47.73 | 65.94      | -18.21     | QP      |
| 3  | 0.17 | 0.02       | 9.52        | 14.80      | 24.34 | 54.94      | -30.60     | Average |
| 4  | 0.17 | 0.02       | 9.52        | 36.13      | 45.67 | 64.94      | -19.27     | QP      |
| 5  | 0.20 | 0.03       | 9.50        | 15.10      | 24.63 | 53.80      | -29.17     | Average |
| 6  | 0.20 | 0.03       | 9.50        | 33.96      | 43.49 | 63.80      | -20.31     | QP      |
| 7  | 0.22 | 0.03       | 9.50        | 13.48      | 23.01 | 52.74      | -29.73     | Average |
| 8  | 0.22 | 0.03       | 9.50        | 31.07      | 40.60 | 62.74      | -22.14     | QP      |
| 9  | 0.24 | 0.03       | 9.51        | 13.49      | 23.03 | 52.13      | -29.10     | Average |
| 10 | 0.24 | 0.03       | 9.51        | 29.42      | 38.96 | 62.13      | -23.17     | QP      |
| 11 | 0.29 | 0.03       | 9.51        | 10.26      | 19.80 | 50.63      | -30.83     | Average |
| 12 | 0.29 | 0.03       | 9.51        | 24.79      | 34.33 | 60.63      | -26.30     | QP      |

Mode:b; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 04177CR  
Test mode: b

|    | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark  |
|----|------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz  | dB         | dB          | dBuV       | dBuV  | dBuV       | dB         |         |
| 1  | 0.15 | 0.02       | 9.58        | 19.08      | 28.68 | 55.91      | -27.23     | Average |
| 2  | 0.15 | 0.02       | 9.58        | 39.68      | 49.28 | 65.91      | -16.63     | QP      |
| 3  | 0.25 | 0.03       | 9.58        | 10.88      | 20.49 | 51.91      | -31.42     | Average |
| 4  | 0.25 | 0.03       | 9.58        | 28.29      | 37.90 | 61.91      | -24.01     | QP      |
| 5  | 0.31 | 0.03       | 9.58        | 9.69       | 19.30 | 50.06      | -30.76     | Average |
| 6  | 0.31 | 0.03       | 9.58        | 23.21      | 32.82 | 60.06      | -27.24     | QP      |
| 7  | 0.38 | 0.03       | 9.59        | 8.22       | 17.84 | 48.34      | -30.50     | Average |
| 8  | 0.38 | 0.03       | 9.59        | 17.35      | 26.97 | 58.34      | -31.37     | QP      |
| 9  | 0.48 | 0.04       | 9.60        | 12.04      | 21.68 | 46.41      | -24.73     | Average |
| 10 | 0.48 | 0.04       | 9.60        | 17.03      | 26.67 | 56.41      | -29.74     | QP      |
| 11 | 0.62 | 0.06       | 9.62        | 9.27       | 18.95 | 46.00      | -27.05     | Average |
| 12 | 0.62 | 0.06       | 9.62        | 16.02      | 25.70 | 56.00      | -30.30     | QP      |

## 7.2 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 Section 6.9.3

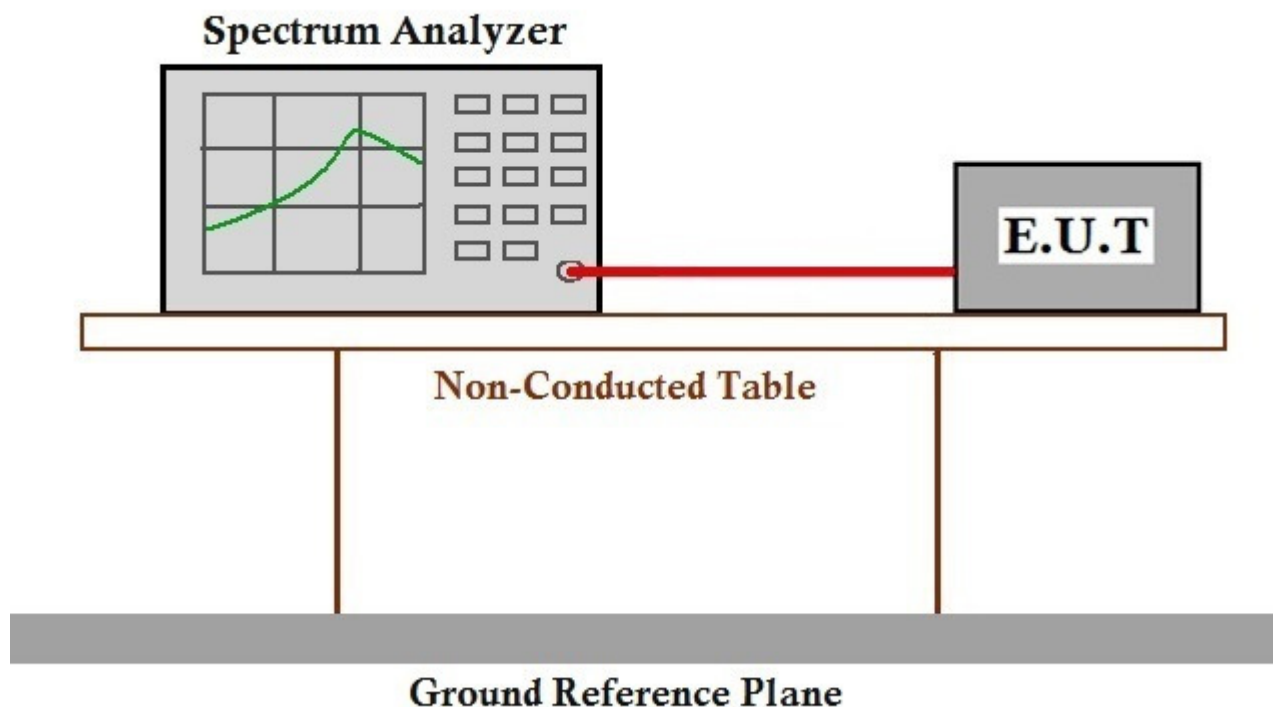
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 58.1 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

### 7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2); RSS-247 Section 5.2(a)  
 Test Method: ANSI C63.10 (2013) Section 11.8.1  
 Limit:  $\geq 500$  kHz

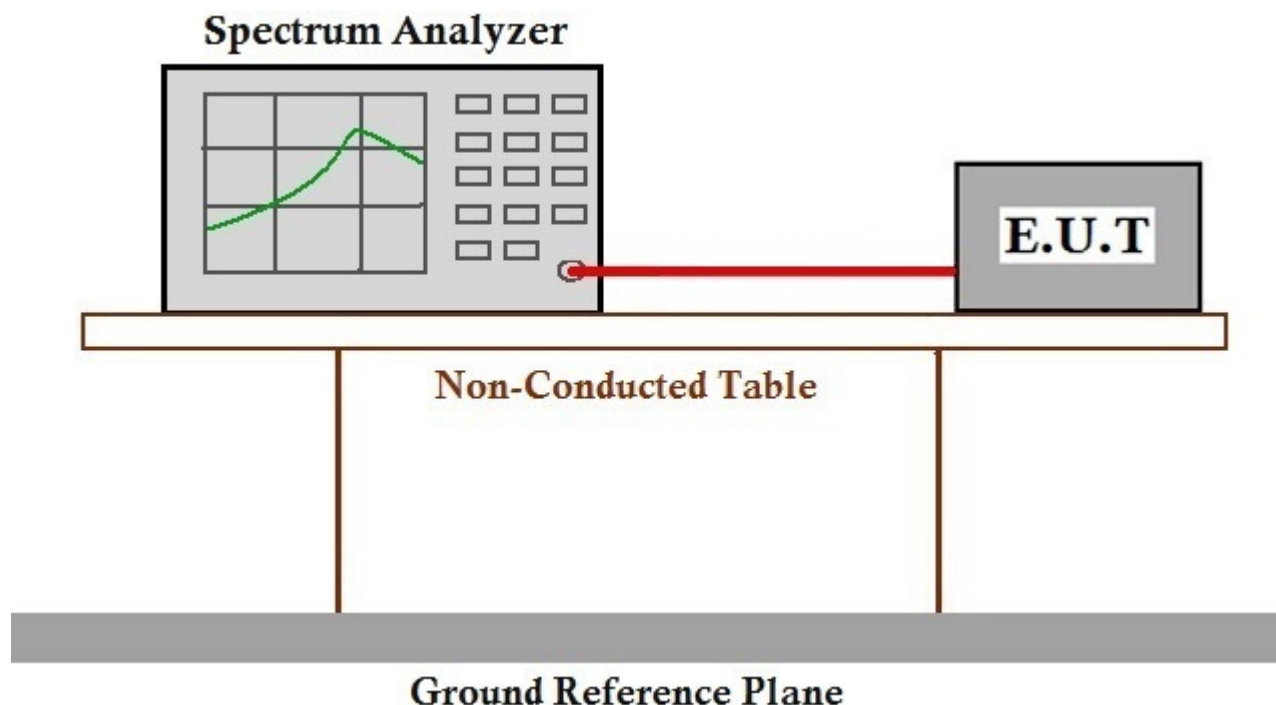
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 58.1 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

#### 7.4 Conducted Output Power (Average)

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3); RSS-247 Section 5.4(d)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

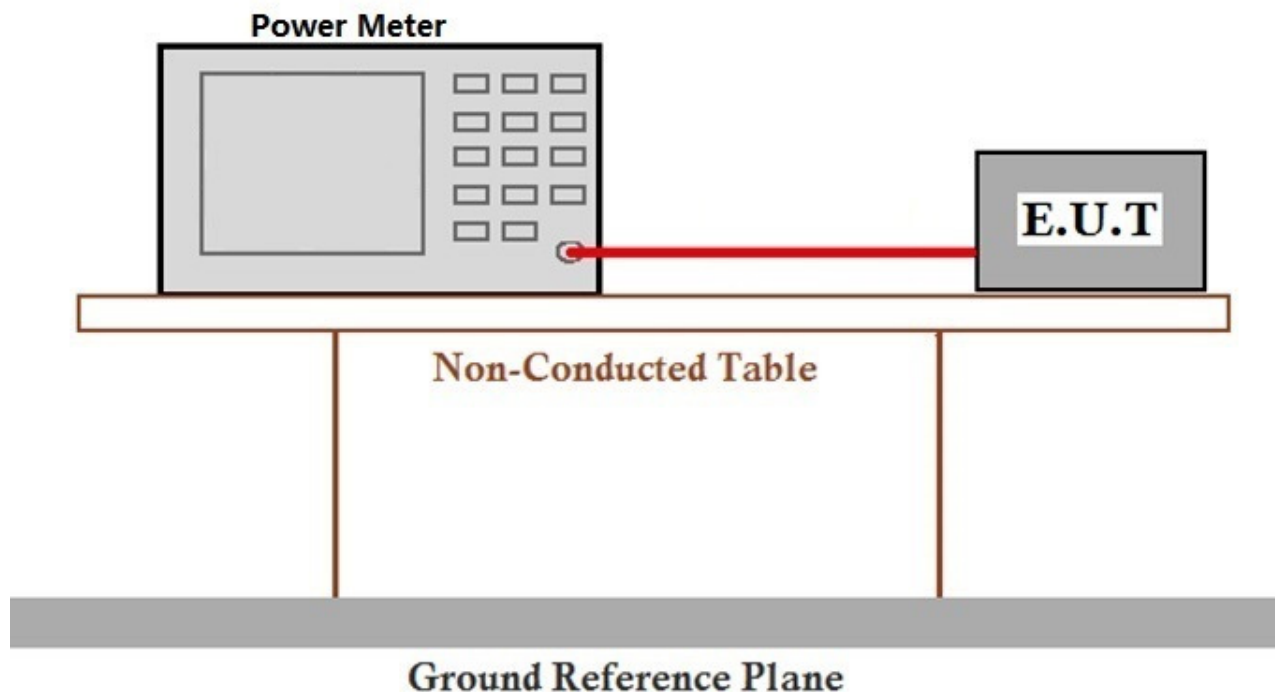
##### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.1 °C Humidity: 58.1 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

##### 7.4.2 Test Setup Diagram



##### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

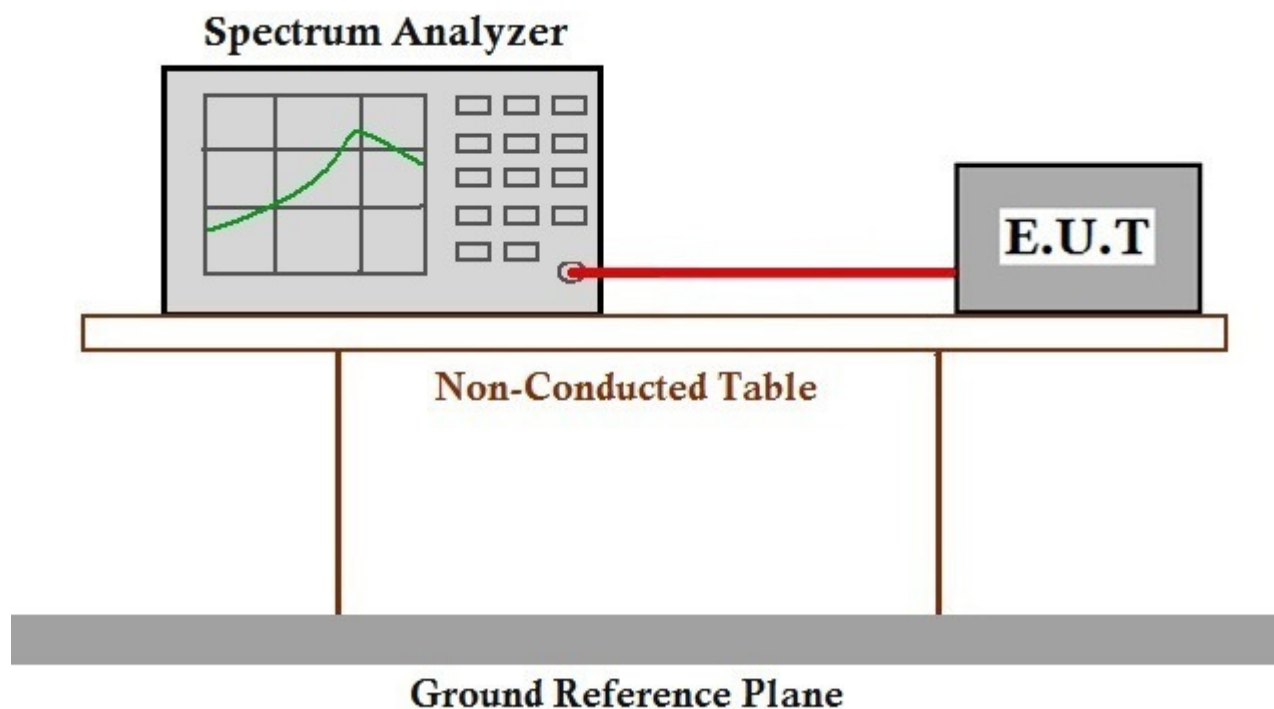
## 7.5 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e); RSS-247 Clause 5.2(b)  
Test Method: ANSI C63.10 (2013) Section 11.10.2  
Limit:  $\leq 8\text{dBm}$  in any 3 kHz band during any time interval of continuous transmission

### 7.5.1 E.U.T. Operation

Operating Environment:  
Temperature: 25.1 °C Humidity: 58.1 % RH Atmospheric Pressure: 1010 mbar  
Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

### 7.5.2 Test Setup Diagram



### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

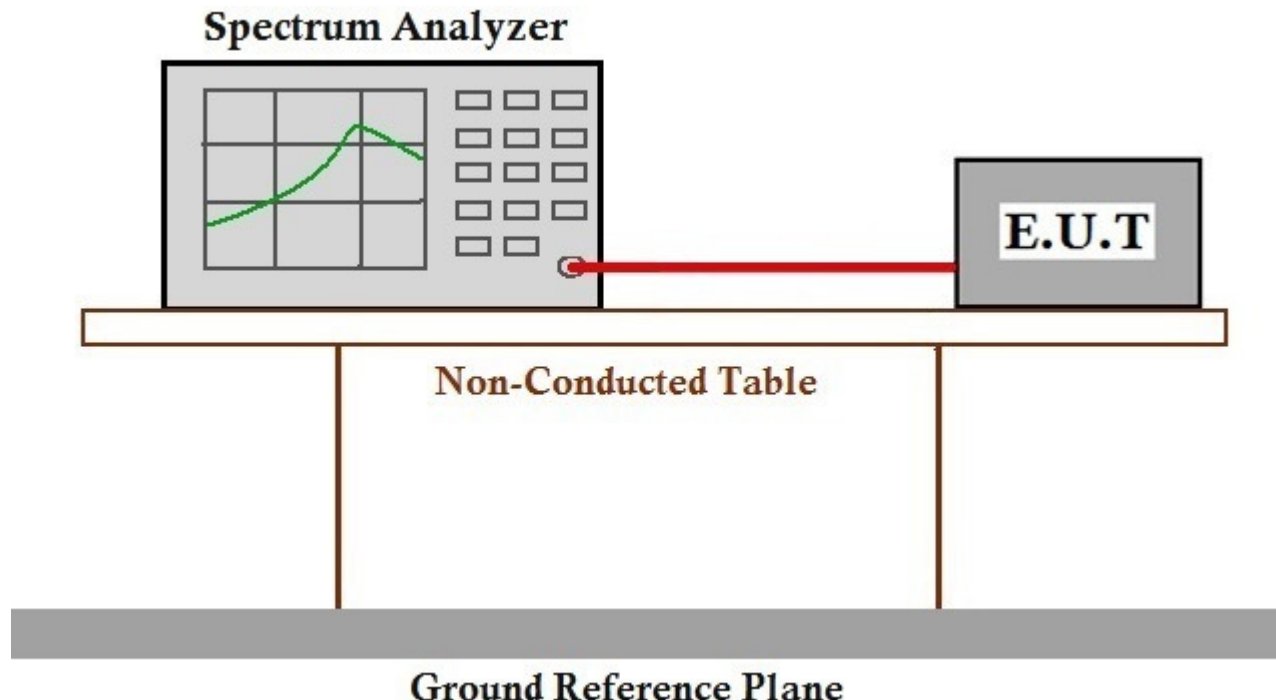
## 7.6 Conducted Band Edges Measurement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d); RSS-247 Section 5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method:     | ANSI C63.10 (2013) Section 11.13.3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Limit:           | 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 §15.209(a) (see §15.205(c)) |

### 7.6.1 E.U.T. Operation

|                        |                                                                          |           |           |                       |           |
|------------------------|--------------------------------------------------------------------------|-----------|-----------|-----------------------|-----------|
| Operating Environment: |                                                                          |           |           |                       |           |
| Temperature:           | 25.1 °C                                                                  | Humidity: | 58.2 % RH | Atmospheric Pressure: | 1010 mbar |
| Test mode              | a:TX mode_Keep the EUT in continuously transmitting mode with modulation |           |           |                       |           |

### 7.6.2 Test Setup Diagram



### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

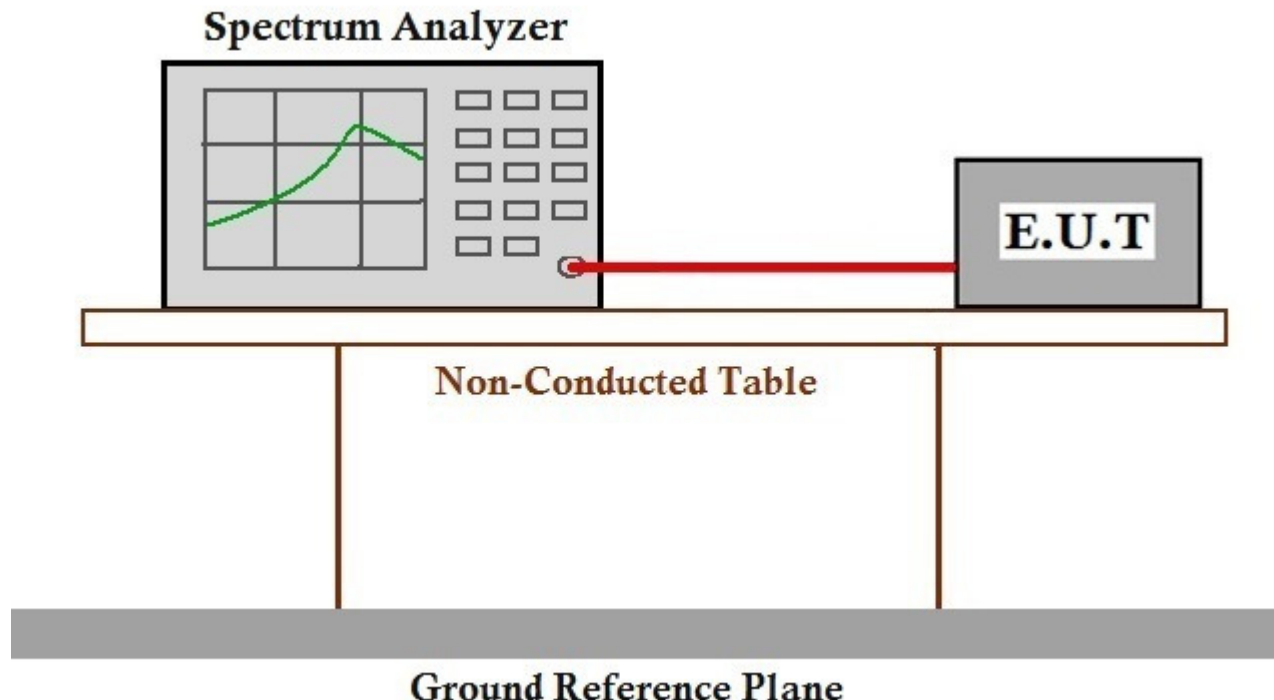
## 7.7 Conducted Spurious Emissions

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d); RSS-247 Section 5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method:     | ANSI C63.10 (2013) Section 11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Limit:           | 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 §15.209(a) (see §15.205(c)) |

### 7.7.1 E.U.T. Operation

|                        |                                                                          |           |           |                       |           |
|------------------------|--------------------------------------------------------------------------|-----------|-----------|-----------------------|-----------|
| Operating Environment: |                                                                          |           |           |                       |           |
| Temperature:           | 25.1 °C                                                                  | Humidity: | 58.2 % RH | Atmospheric Pressure: | 1010 mbar |
| Test mode              | a:TX mode_Keep the EUT in continuously transmitting mode with modulation |           |           |                       |           |

### 7.7.2 Test Setup Diagram



### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

## 7.8 Radiated Emissions which fall in the restricted bands

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.209; RSS-247 Section 3.3 & RSS-Gen Section 8.9

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| Above 960      | 500                              | 3                            |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

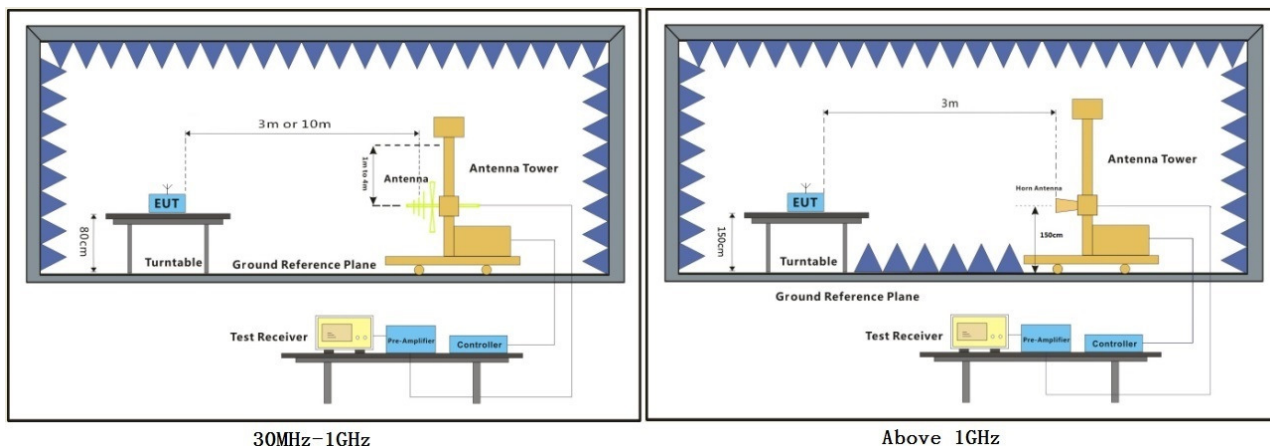
Pretest these modes to find the worst case:

- a:TX mode\_Keep the EUT in continuously transmitting mode with modulation
- b:Charge + TX mode\_Keep the EUT in charging and continuously transmitting mode with modulation.

The worst case for final test:

- a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

### 7.8.2 Test Setup Diagram





### **7.8.3 Measurement Procedure and Data**

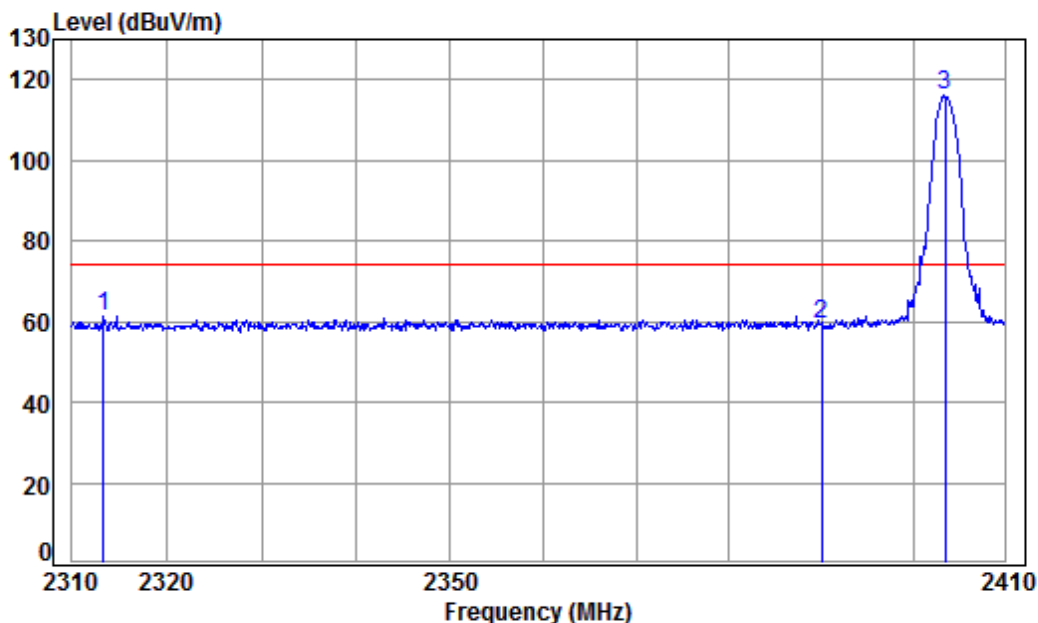
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:LowMHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

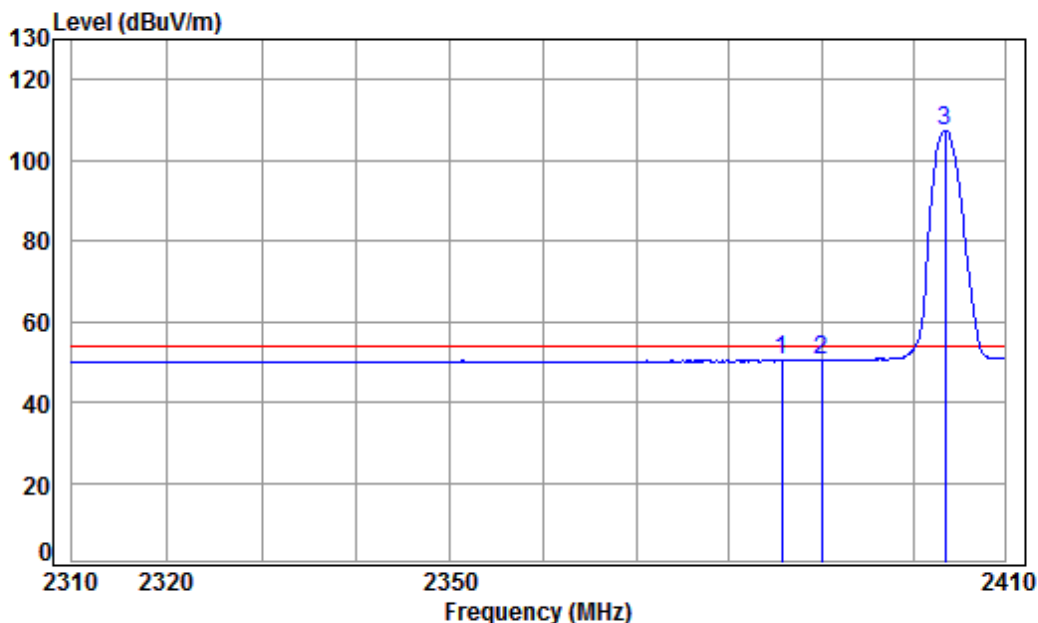
Mode : 2403.5 Band edge

Note : 1.4M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2313.331 | 3.27  | 28.39  | 0.00   | 29.83 | 61.49  | 74.00  | -12.51 peak  |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.36 | 59.21  | 74.00  | -14.79 peak  |
| 3 pp | 2403.500 | 3.34  | 28.54  | 0.00   | 84.18 | 116.06 | 74.00  | 42.06 peak   |



Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:LowMHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

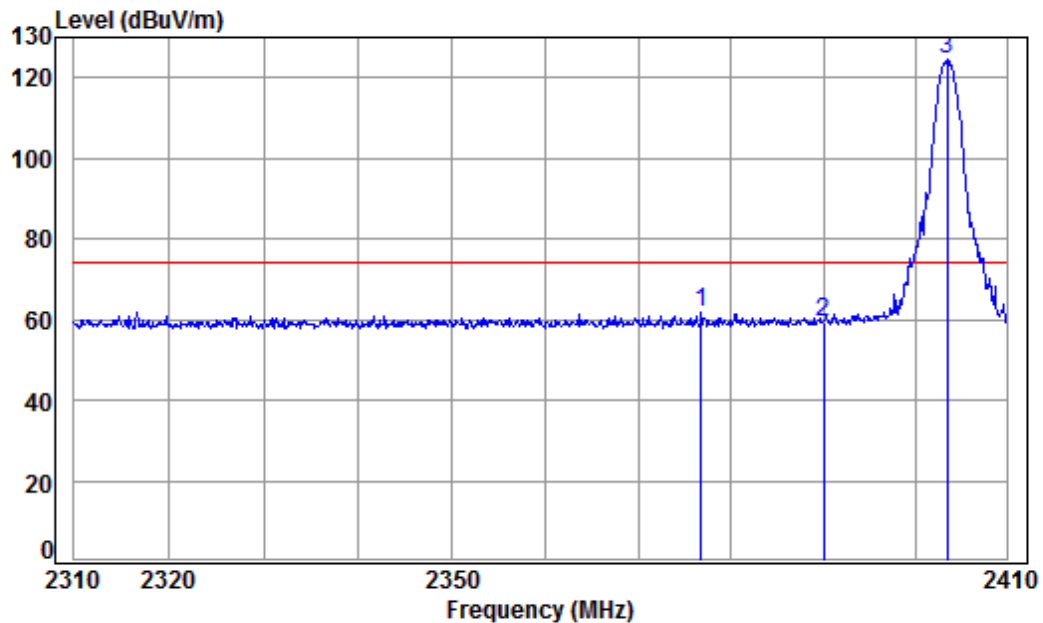
Mode : 2403.5 Band edge

Note : 1.4M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over  |         |
|------|----------|-------|--------|--------|-------|--------|--------|-------|---------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit | Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB    |         |
| 1    | 2385.713 | 3.33  | 28.51  | 0.00   | 18.51 | 50.35  | 54.00  | -3.65 | Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.42 | 50.27  | 54.00  | -3.73 | Average |
| 3 pp | 2403.500 | 3.34  | 28.54  | 0.00   | 75.47 | 107.35 | 54.00  | 53.35 | Average |



Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:LowMHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

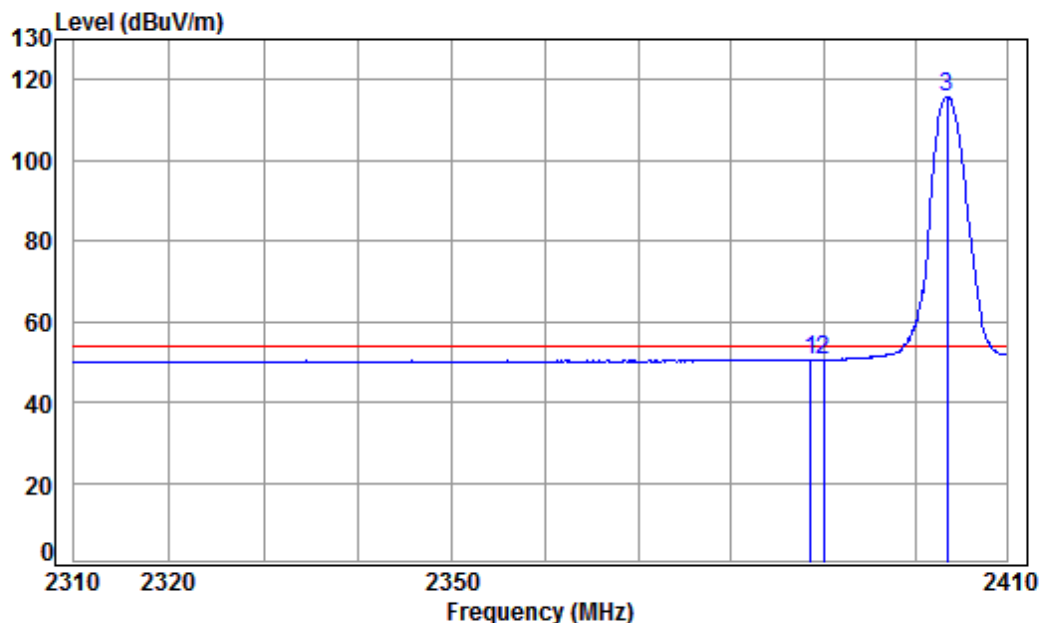
Mode : 2403.5 Band edge

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1    | 2376.732 | 3.32       | 28.50      | 0.00                | 30.21      | 62.03  | 74.00  | -11.97     | peak   |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00                | 27.64      | 59.49  | 74.00  | -14.51     | peak   |
| 3 pp | 2403.500 | 3.34       | 28.54      | 0.00                | 92.60      | 124.48 | 74.00  | 50.48      | peak   |



Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:LowMHz; Value:Average



Condition: 3m VERTICAL

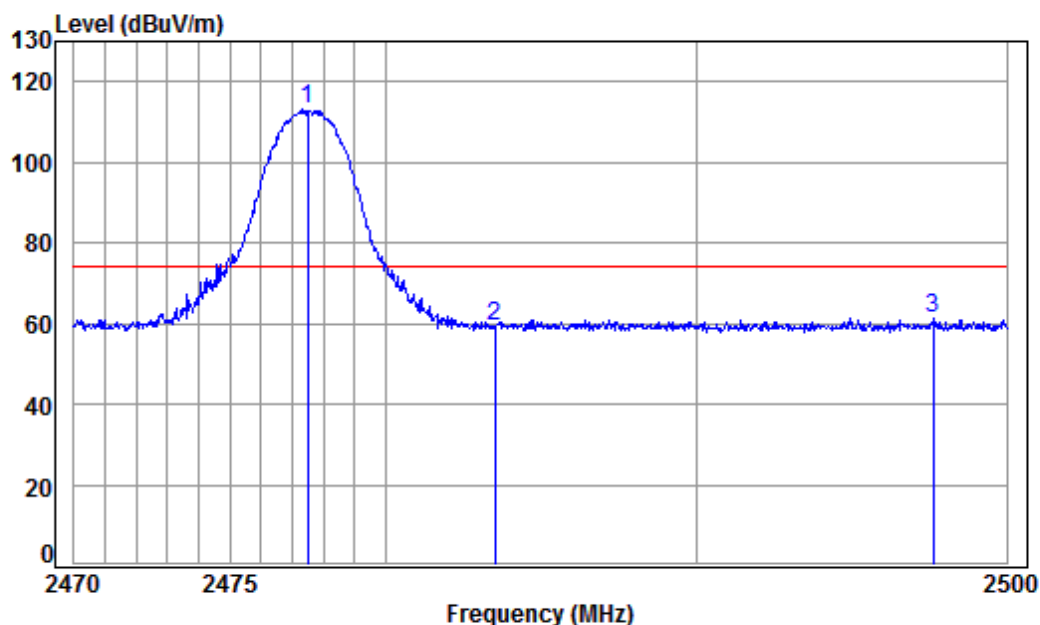
Job No : 04177CR

Mode : 2403.5 Band edge

Note : 1.4M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2388.647 | 3.33  | 28.52  | 0.00   | 18.73 | 50.58  | 54.00  | -3.42 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.64 | 50.49  | 54.00  | -3.51 Average |
| 3 pp | 2403.500 | 3.34  | 28.54  | 0.00   | 83.81 | 115.69 | 54.00  | 61.69 Average |

Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:HighMHz; Value:Peak



Condition: 3m HORIZONTAL

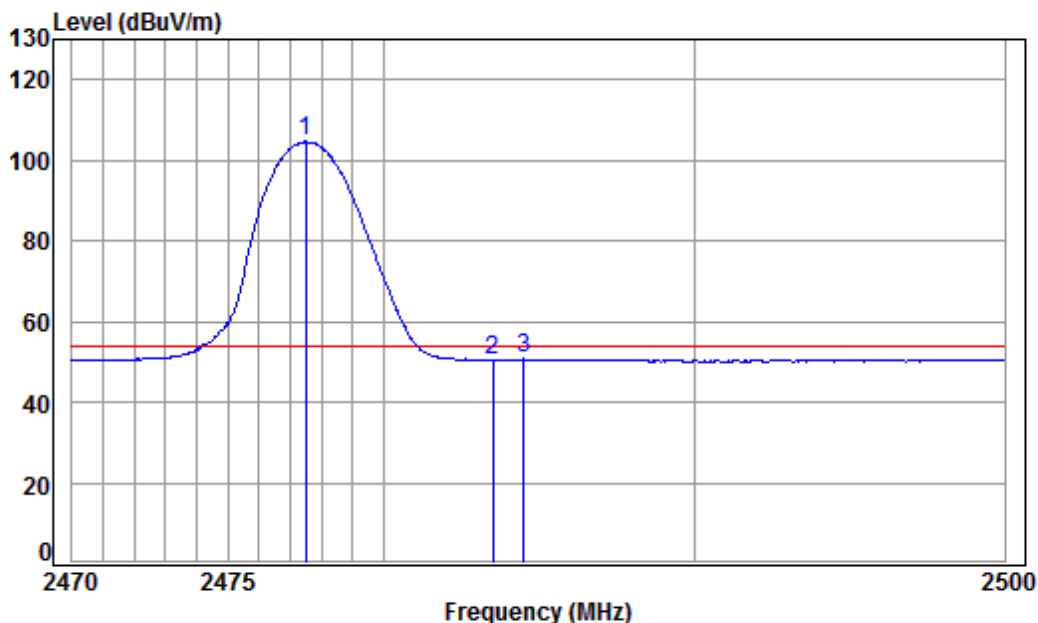
Job No : 04177CR

Mode : 2477.5 Band edge

Note : 1.4M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|-------------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | pp 2477.500 | 3.40  | 28.66  | 0.00   | 81.02 | 113.08 | 74.00  | 39.08 peak   |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 27.06 | 59.14  | 74.00  | -14.86 peak  |
| 3 | 2497.617    | 3.42  | 28.70  | 0.00   | 29.22 | 61.34  | 74.00  | -12.66 peak  |

Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:HighMHz; Value:Average



Condition: 3m HORIZONTAL

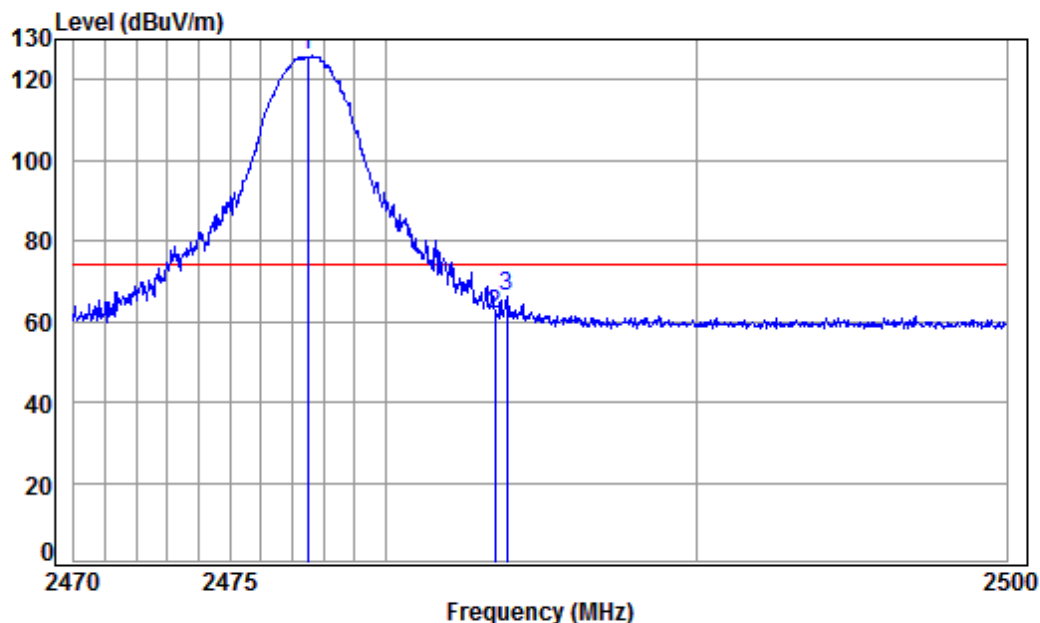
Job No : 04177CR

Mode : 2477.5 Band edge

Note : 1.4M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2477.500 | 3.40  | 28.66  | 0.00   | 72.49 | 104.55 | 54.00  | 50.55 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.35 | 50.43  | 54.00  | -3.57 Average |
| 3 | 2484.505    | 3.41  | 28.67  | 0.00   | 18.59 | 50.67  | 54.00  | -3.33 Average |

Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:HighMHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

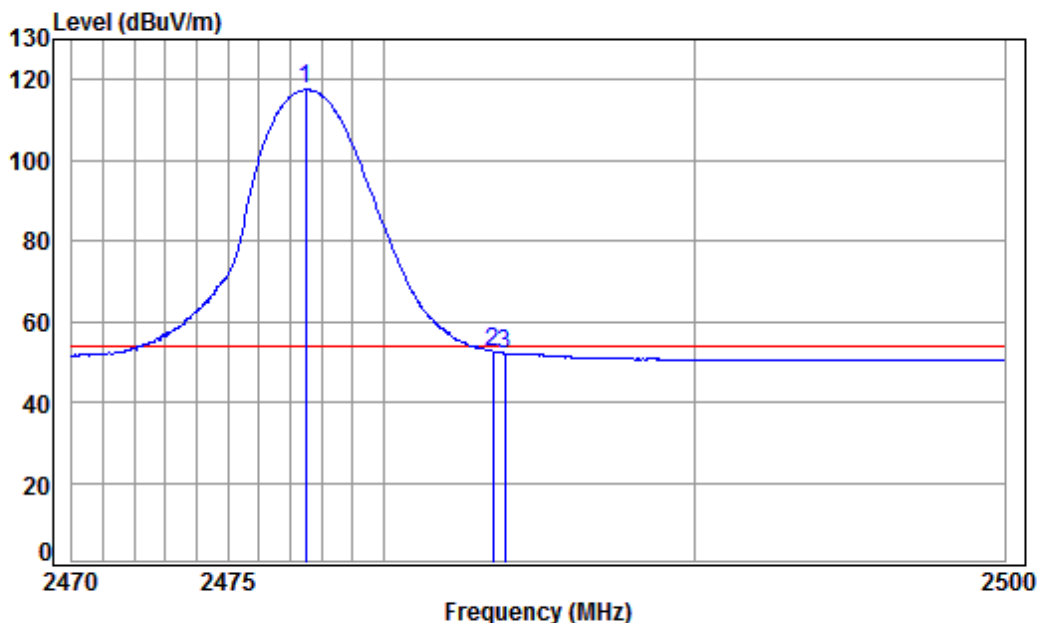
Mode : 2477.5 Band edge

Note : 1.4M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2477.500 | 3.40  | 28.66  | 0.00   | 94.04 | 126.10 | 74.00  | 52.10 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 29.69 | 61.77  | 74.00  | -12.23 peak  |
| 3    | 2483.875 | 3.41  | 28.67  | 0.00   | 34.37 | 66.45  | 74.00  | -7.55 peak   |



Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:HighMHz; Value:Average



Condition: 3m VERTICAL

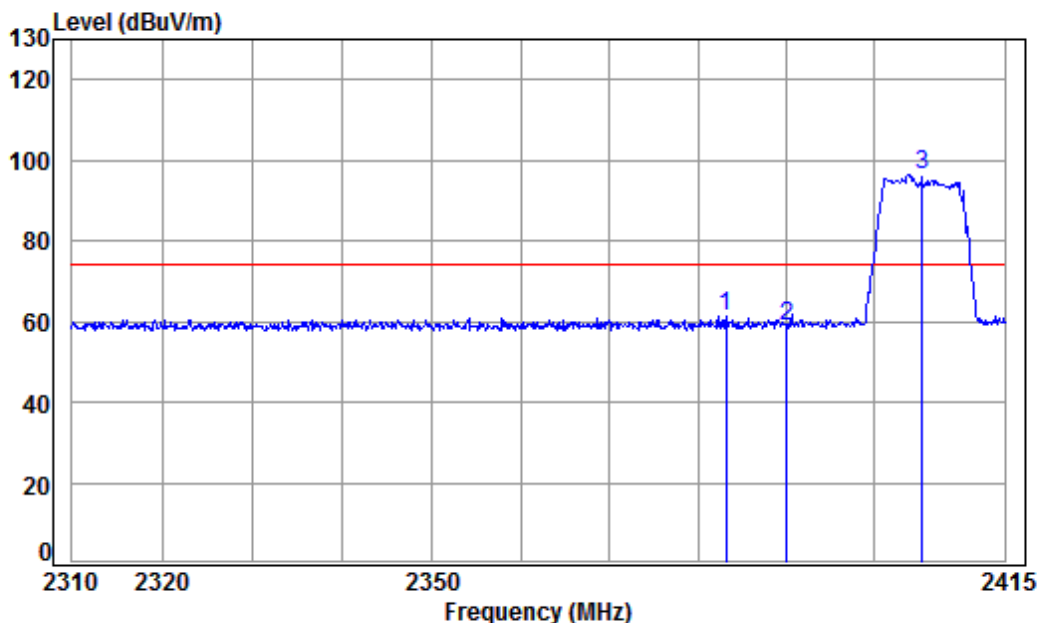
Job No : 04177CR

Mode : 2477.5 Band edge

Note : 1.4M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2477.500 | 3.40  | 28.66  | 0.00   | 85.44 | 117.50 | 54.00  | 63.50 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 20.47 | 52.55  | 54.00  | -1.45 Average |
| 3    | 2483.875 | 3.41  | 28.67  | 0.00   | 20.02 | 52.10  | 54.00  | -1.90 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2405.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

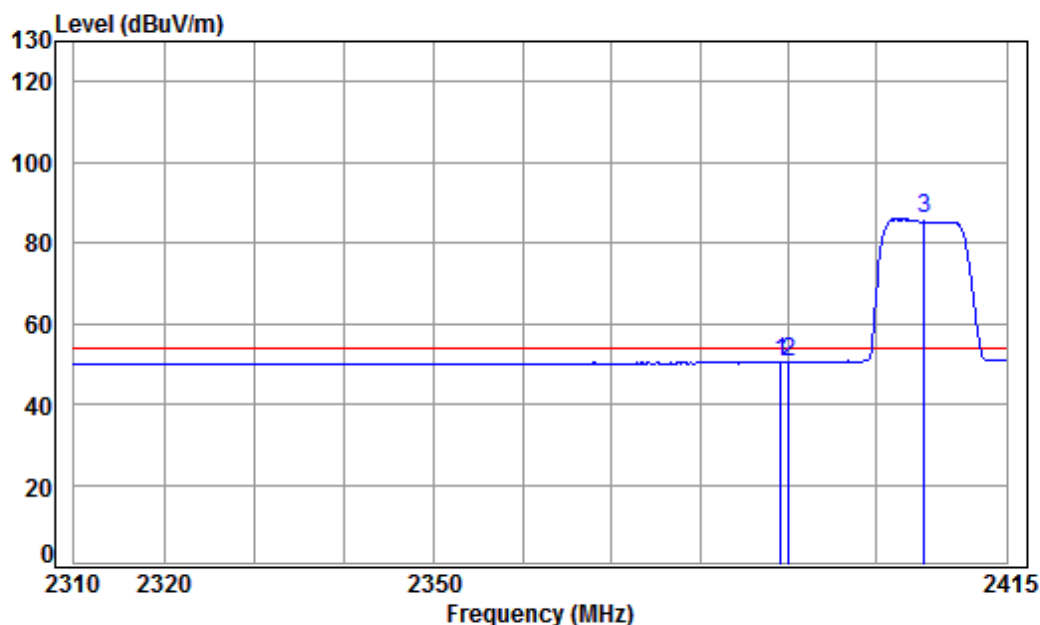
Mode : 2405.5 Band edge

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1    | 2383.115 | 3.32       | 28.51      | 0.00                | 29.48      | 61.31  | 74.00  | -12.69     | peak   |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00                | 27.19      | 59.04  | 74.00  | -14.96     | peak   |
| 3 pp | 2405.500 | 3.34       | 28.54      | 0.00                | 64.56      | 96.44  | 74.00  | 22.44      | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2405.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

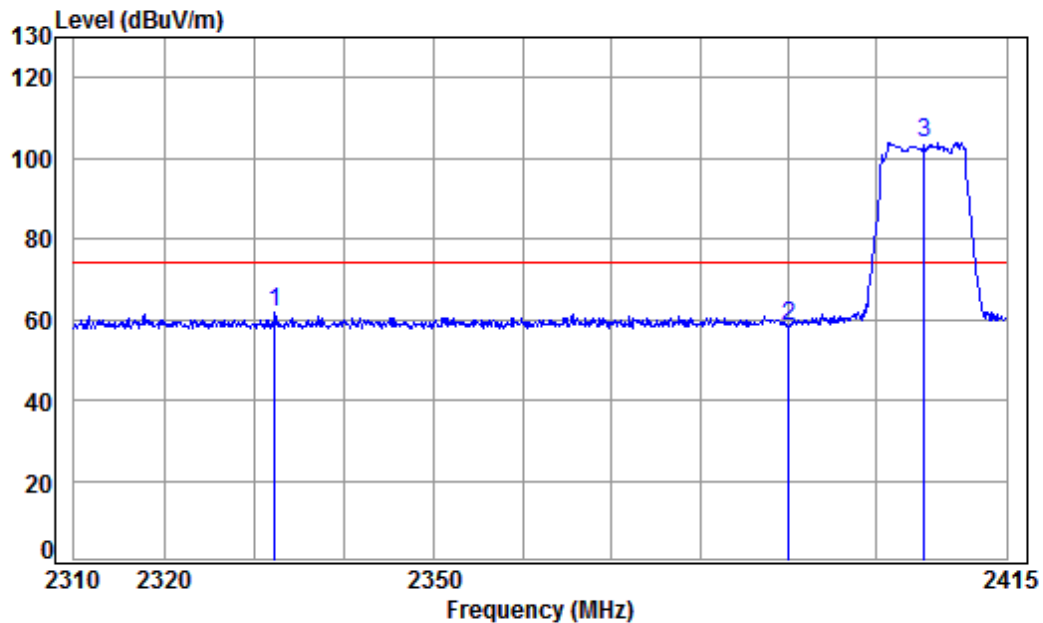
Mode : 2405.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | 2389.160    | 3.33  | 28.52  | 0.00   | 18.58 | 50.43  | 54.00  | -3.57 Average |
| 2 | 2390.000    | 3.33  | 28.52  | 0.00   | 18.44 | 50.29  | 54.00  | -3.71 Average |
| 3 | pp 2405.500 | 3.34  | 28.54  | 0.00   | 54.11 | 85.99  | 54.00  | 31.99 Average |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2405.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

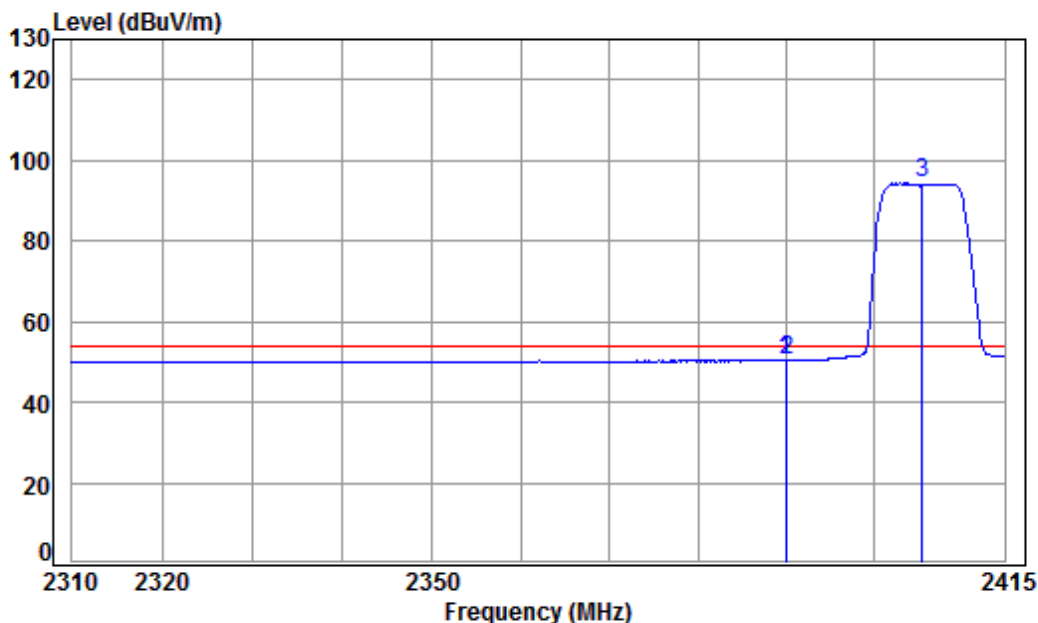
Mode : 2405.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2332.183 | 3.28  | 28.42  | 0.00   | 30.18 | 61.88  | 74.00  | -12.12 | peak   |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 26.33 | 58.18  | 74.00  | -15.82 | peak   |
| 3 pp | 2405.500 | 3.34  | 28.54  | 0.00   | 72.00 | 103.88 | 74.00  | 29.88  | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2405.5MHz; Value:Average



Condition: 3m VERTICAL

Job No : 04177CR

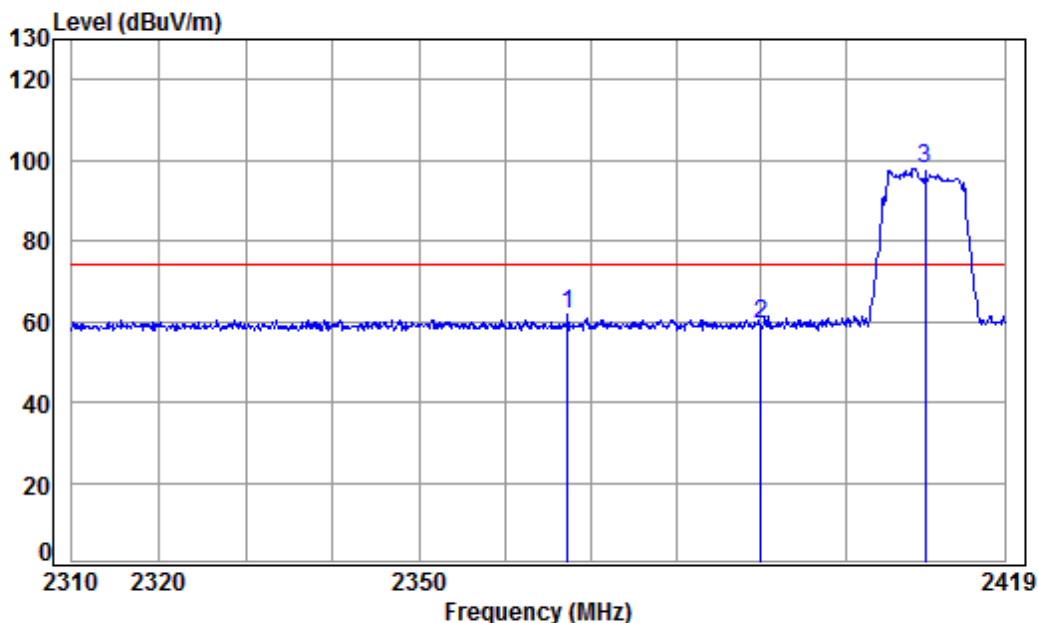
Mode : 2405.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | 2389.904    | 3.33  | 28.52  | 0.00   | 18.56 | 50.41  | 54.00  | -3.59 Average |
| 2 | 2390.000    | 3.33  | 28.52  | 0.00   | 18.47 | 50.32  | 54.00  | -3.68 Average |
| 3 | pp 2405.500 | 3.34  | 28.54  | 0.00   | 62.38 | 94.26  | 54.00  | 40.26 Average |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2409.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

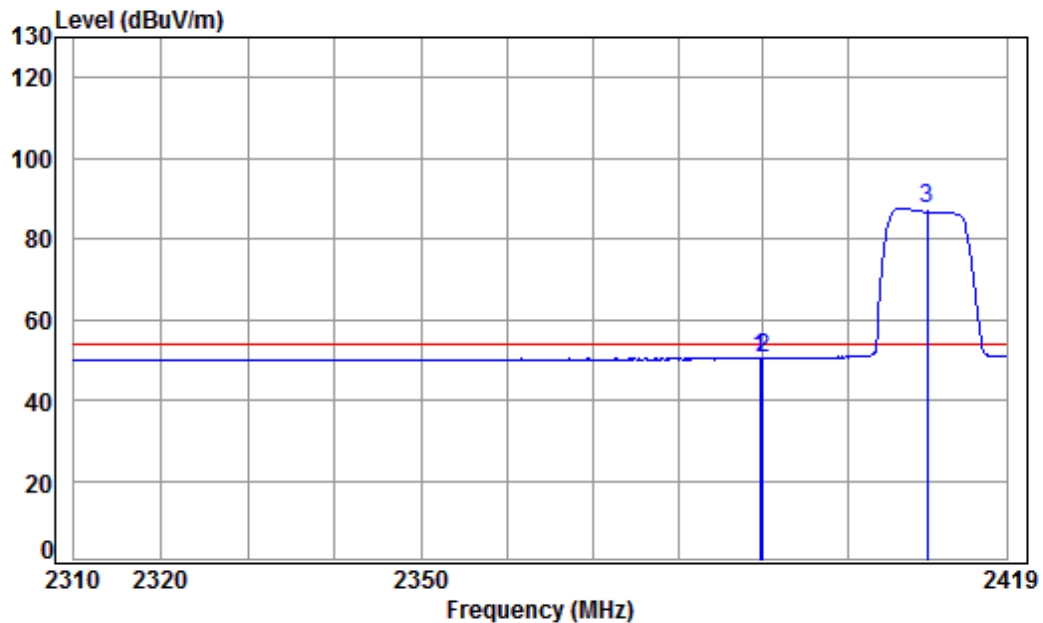
Mode : 2409.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2367.362 | 3.31  | 28.48  | 0.00   | 30.10 | 61.89  | 74.00  | -12.11 peak  |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.43 | 59.28  | 74.00  | -14.72 peak  |
| 3 pp | 2409.500 | 3.35  | 28.55  | 0.00   | 66.09 | 97.99  | 74.00  | 23.99 peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2409.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

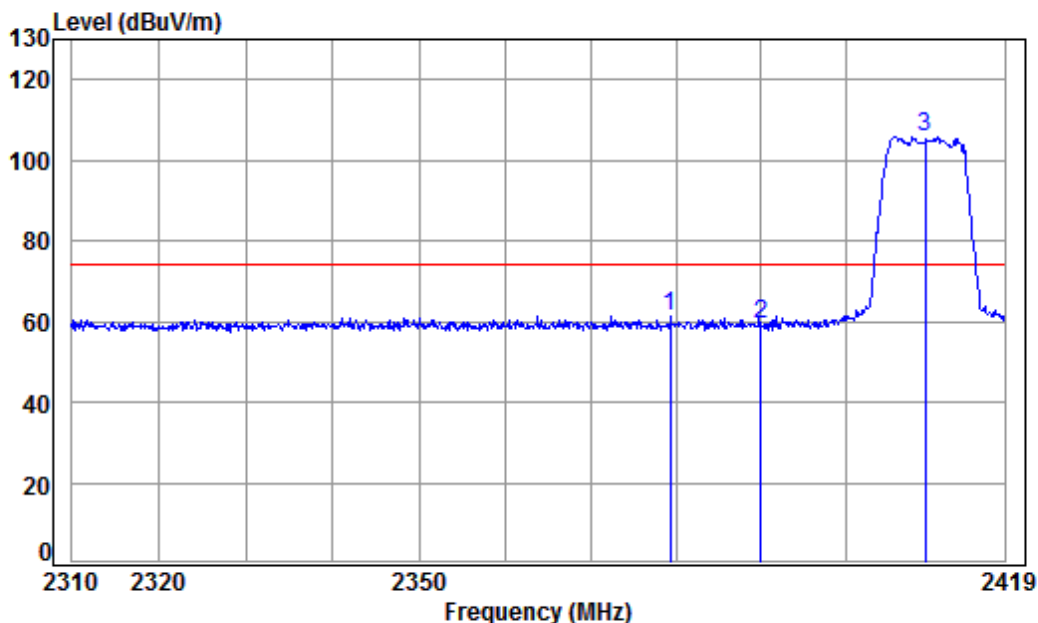
Mode : 2409.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | 2389.624    | 3.33  | 28.52  | 0.00   | 18.54 | 50.39  | 54.00  | -3.61 Average |
| 2 | 2390.000    | 3.33  | 28.52  | 0.00   | 18.43 | 50.28  | 54.00  | -3.72 Average |
| 3 | pp 2409.500 | 3.35  | 28.55  | 0.00   | 55.81 | 87.71  | 54.00  | 33.71 Average |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2409.5MHz; Value:Peak



Condition: 3m VERTICAL

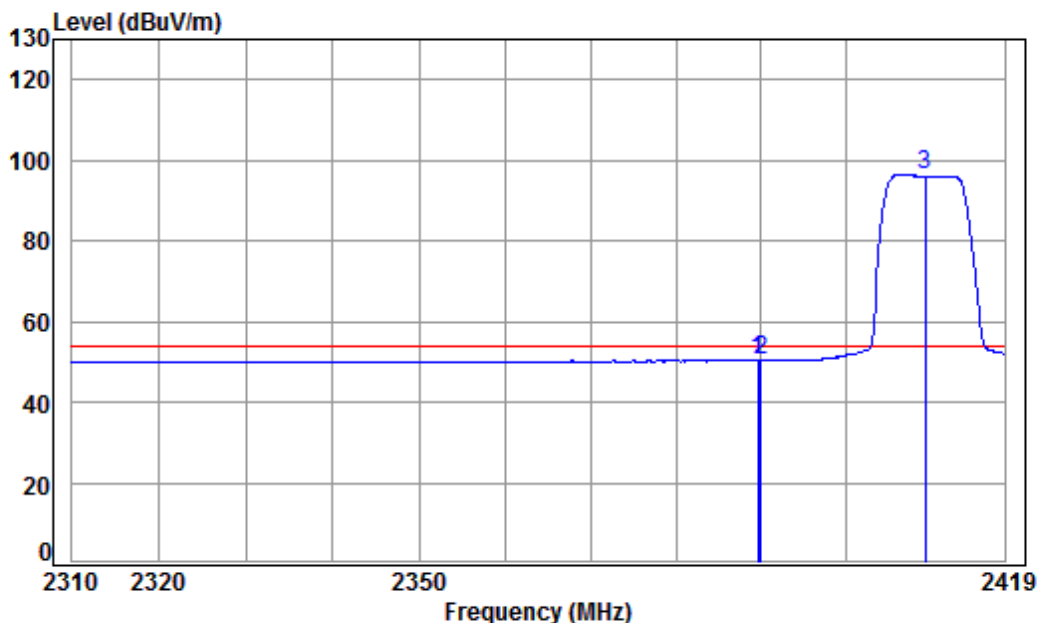
Job No : 04177CR

Mode : 2409.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 2379.399 | 3.32  | 28.50  | 0.00   | 29.54 | 61.36  | 74.00  | -12.64 peak |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.68 | 59.53  | 74.00  | -14.47 peak |
| 3 pp | 2409.500 | 3.35  | 28.55  | 0.00   | 73.87 | 105.77 | 74.00  | 31.77 peak  |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2409.5MHz; Value:Average



Condition: 3m VERTICAL

Job No : 04177CR

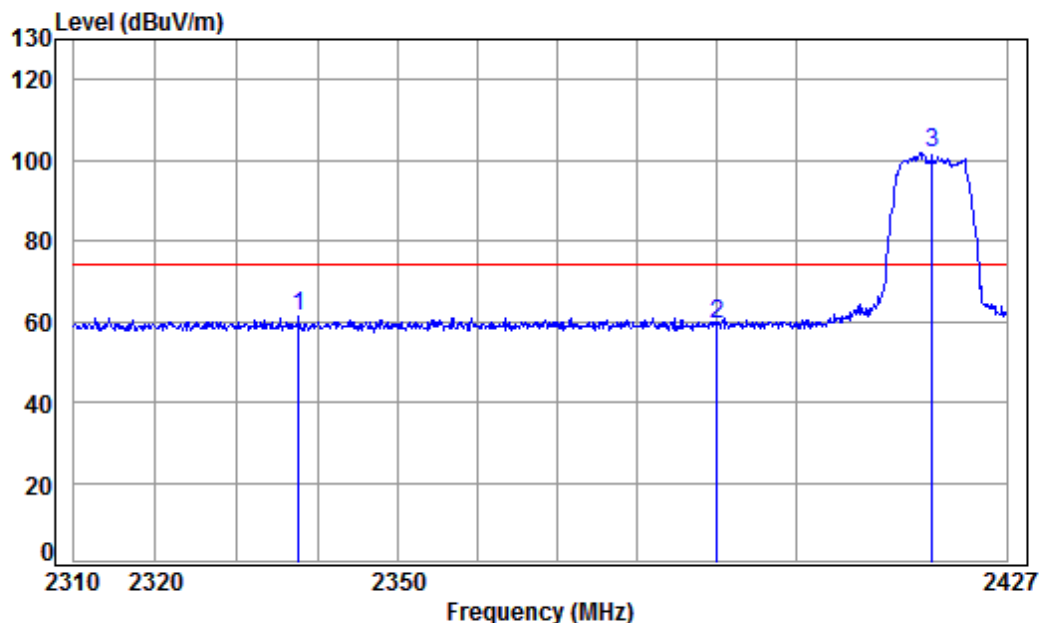
Mode : 2409.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2389.624 | 3.33  | 28.52  | 0.00   | 18.64 | 50.49  | 54.00  | -3.51 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.51 | 50.36  | 54.00  | -3.64 Average |
| 3 pp | 2409.500 | 3.35  | 28.55  | 0.00   | 64.58 | 96.48  | 54.00  | 42.48 Average |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2417.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

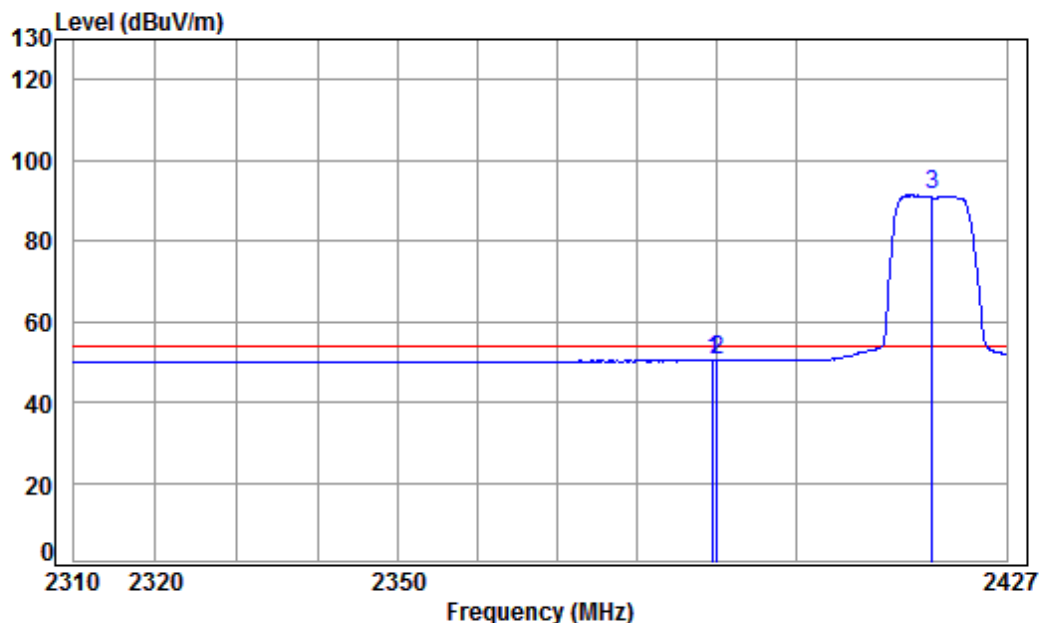
Mode : 2417.5 Band edge

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 2337.671 | 3.29       | 28.43      | 0.00          | 29.80      | 61.52  | 74.00      | -12.48     | peak   |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00          | 27.29      | 59.14  | 74.00      | -14.86     | peak   |
| 3 pp | 2417.500 | 3.35       | 28.56      | 0.00          | 69.90      | 101.81 | 74.00      | 27.81      | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2417.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

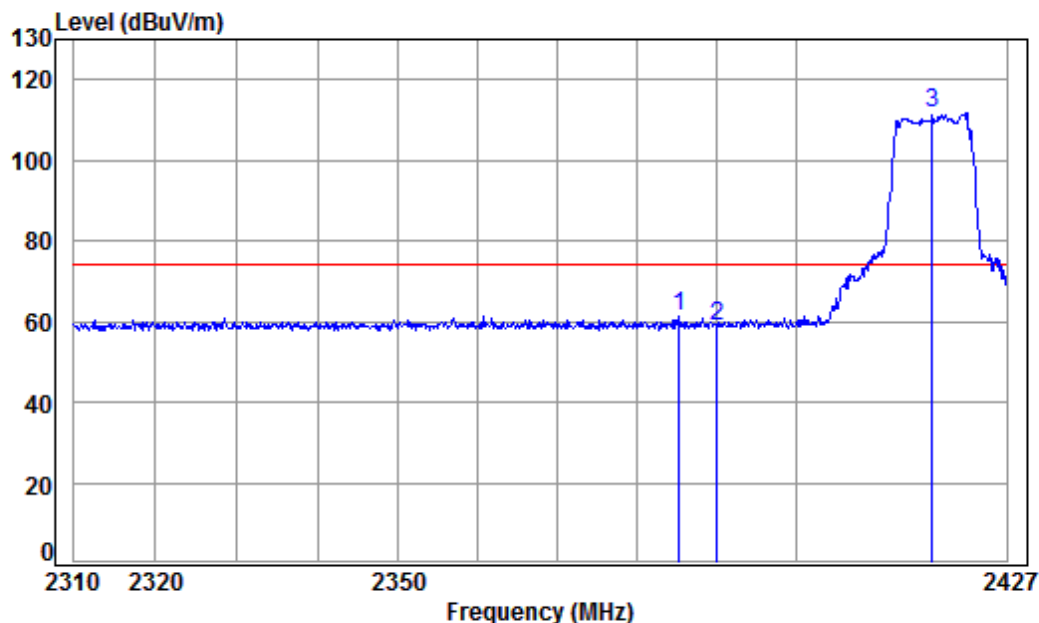
Mode : 2417.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2389.520 | 3.33  | 28.52  | 0.00   | 18.62 | 50.47  | 54.00  | -3.53 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.53 | 50.38  | 54.00  | -3.62 Average |
| 3 pp | 2417.500 | 3.35  | 28.56  | 0.00   | 59.45 | 91.36  | 54.00  | 37.36 Average |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2417.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

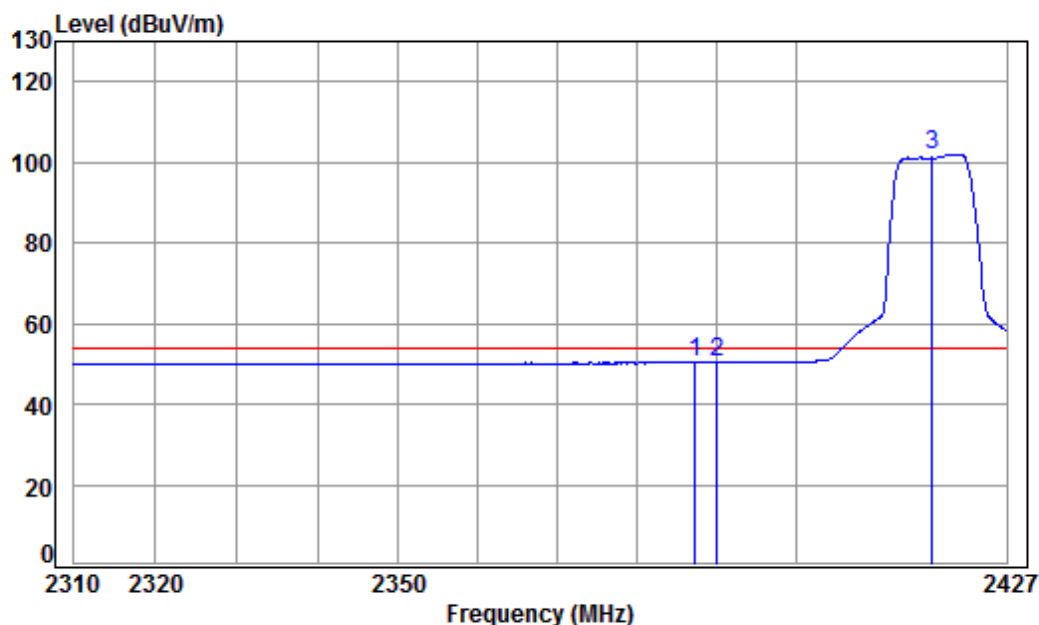
Mode : 2417.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2385.273 | 3.33  | 28.51  | 0.00   | 29.46 | 61.30  | 74.00  | -12.70 | peak   |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 26.95 | 58.80  | 74.00  | -15.20 | peak   |
| 3 pp | 2417.500 | 3.35  | 28.56  | 0.00   | 79.70 | 111.61 | 74.00  | 37.61  | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2417.5MHz; Value:Average



Condition: 3m VERTICAL

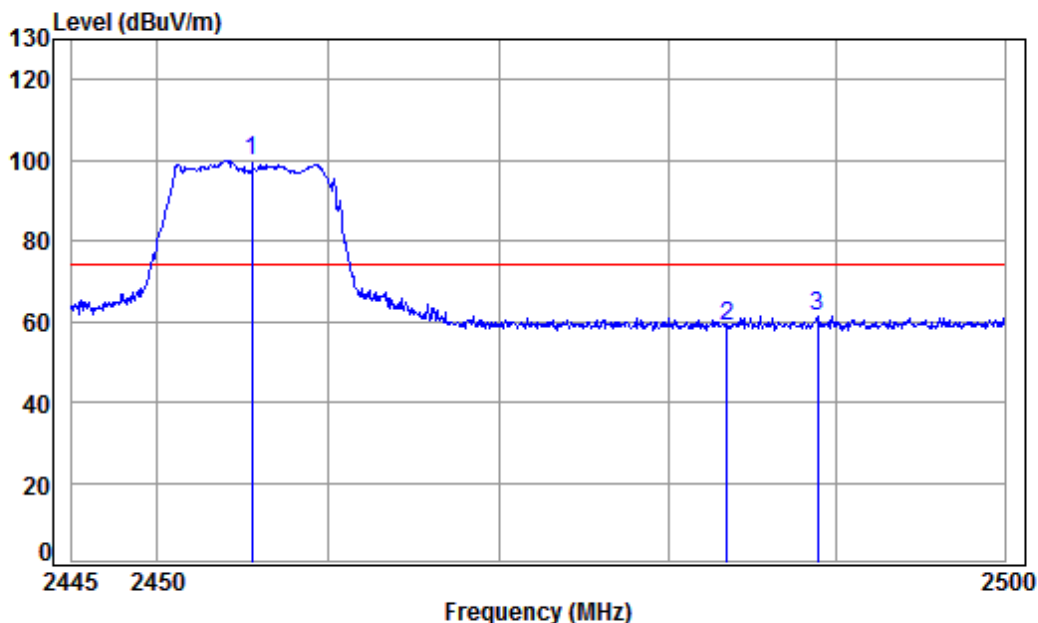
Job No : 04177CR

Mode : 2417.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2387.277 | 3.33  | 28.51  | 0.00   | 18.56 | 50.40  | 54.00  | -3.60 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.47 | 50.32  | 54.00  | -3.68 Average |
| 3 pp | 2417.500 | 3.35  | 28.56  | 0.00   | 69.90 | 101.81 | 54.00  | 47.81 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2455.5MHz; Value:Peak



Condition: 3m HORIZONTAL

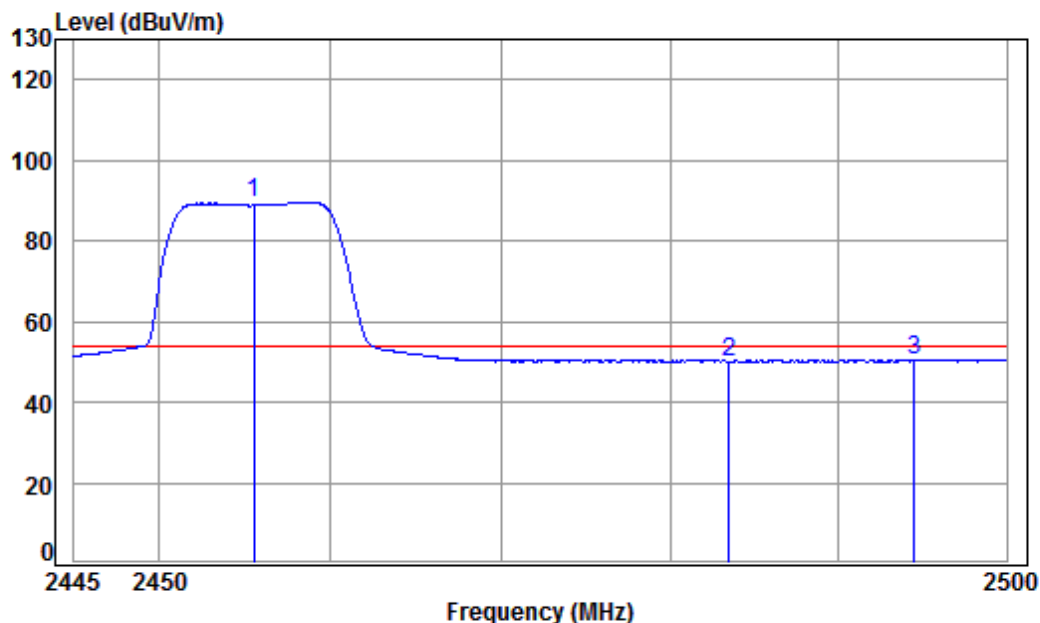
Job No : 04177CR

Mode : 2455.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|-------------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | pp 2455.500 | 3.38  | 28.63  | 0.00   | 67.97 | 99.98  | 74.00  | 25.98 peak   |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 26.78 | 58.86  | 74.00  | -15.14 peak  |
| 3 | 2488.846    | 3.41  | 28.68  | 0.00   | 29.32 | 61.41  | 74.00  | -12.59 peak  |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2455.5MHz; Value:Average



Condition: 3m HORIZONTAL

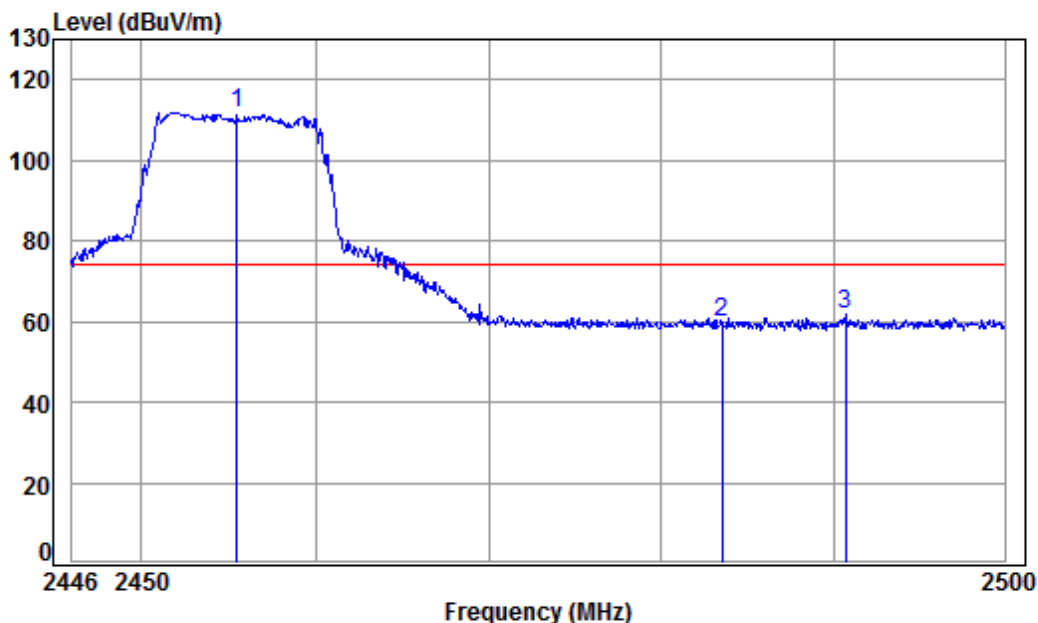
Job No : 04177CR

Mode : 2455.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2455.500 | 3.38  | 28.63  | 0.00   | 57.46 | 89.47  | 54.00  | 35.47 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.07 | 50.15  | 54.00  | -3.85 Average |
| 3 | 2494.500    | 3.42  | 28.69  | 0.00   | 18.31 | 50.42  | 54.00  | -3.58 Average |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2455.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

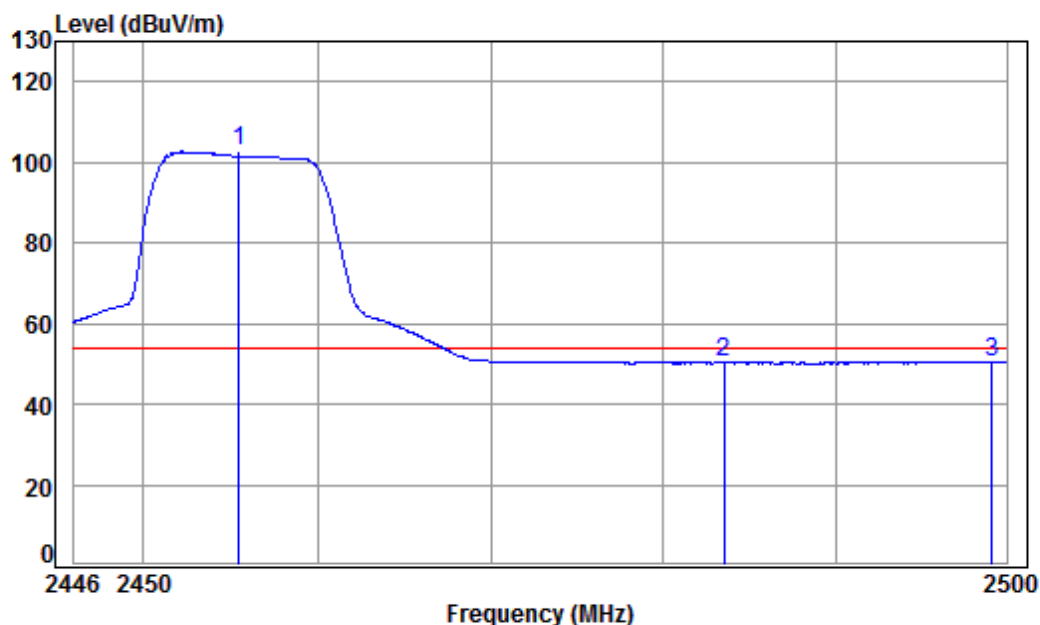
Mode : 2455.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2455.500 | 3.38  | 28.63  | 0.00   | 79.76 | 111.77 | 74.00  | 37.77 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.62 | 59.70  | 74.00  | -14.30 peak  |
| 3    | 2490.682 | 3.41  | 28.68  | 0.00   | 29.68 | 61.77  | 74.00  | -12.23 peak  |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2455.5MHz; Value:Average



Condition: 3m VERTICAL

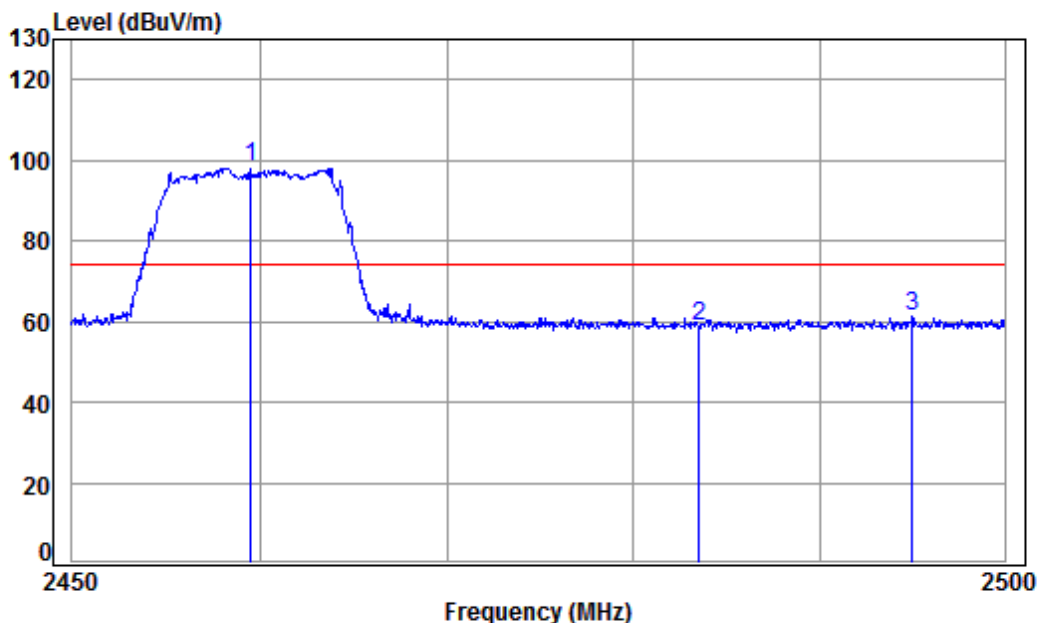
Job No : 04177CR

Mode : 2455.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2455.500 | 3.38  | 28.63  | 0.00   | 70.64 | 102.65 | 54.00  | 48.65 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.17 | 50.25  | 54.00  | -3.75 Average |
| 3    | 2499.127 | 3.42  | 28.70  | 0.00   | 18.34 | 50.46  | 54.00  | -3.54 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2459.5MHz; Value:Peak



Condition: 3m HORIZONTAL

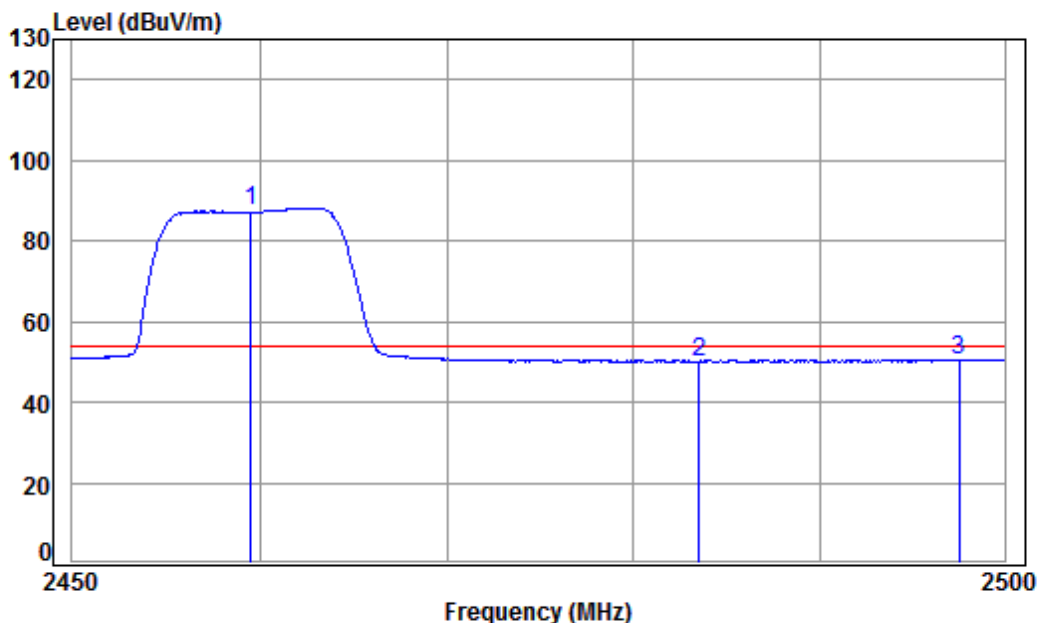
Job No : 04177CR

Mode : 2459.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 pp | 2459.500 | 3.39  | 28.63  | 0.00   | 66.40 | 98.42  | 74.00  | 24.42 peak  |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.54 | 58.62  | 74.00  | -15.38 peak |
| 3    | 2495.005 | 3.42  | 28.69  | 0.00   | 29.31 | 61.42  | 74.00  | -12.58 peak |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2459.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

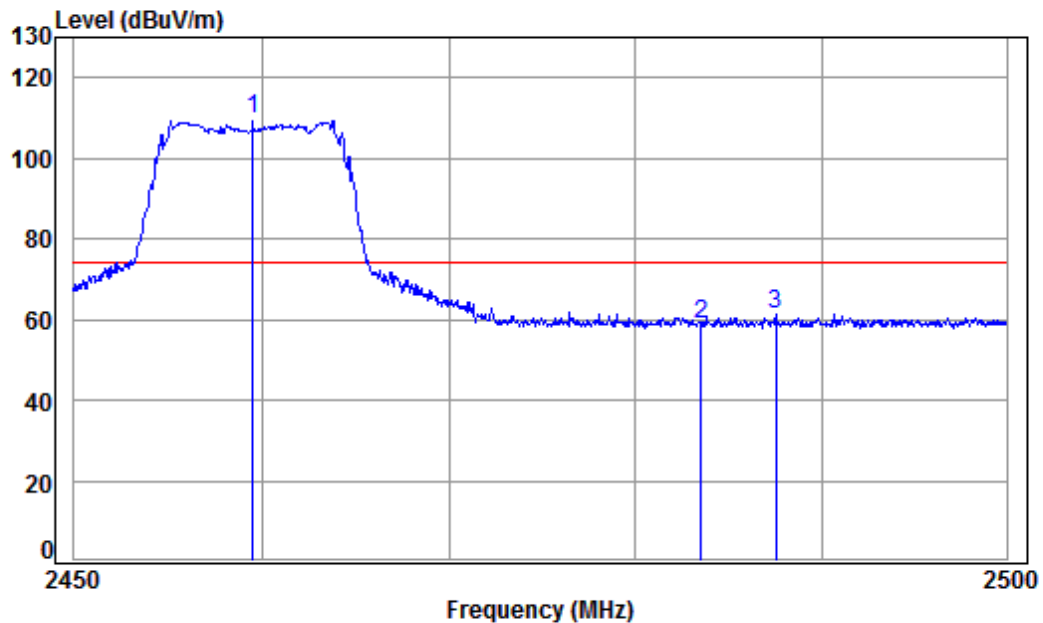
Mode : 2459.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2459.500 | 3.39  | 28.63  | 0.00   | 55.67 | 87.69  | 54.00  | 33.69 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.08 | 50.16  | 54.00  | -3.84 Average |
| 3    | 2497.526 | 3.42  | 28.70  | 0.00   | 18.24 | 50.36  | 54.00  | -3.64 Average |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2459.5MHz; Value:Peak



Condition: 3m VERTICAL

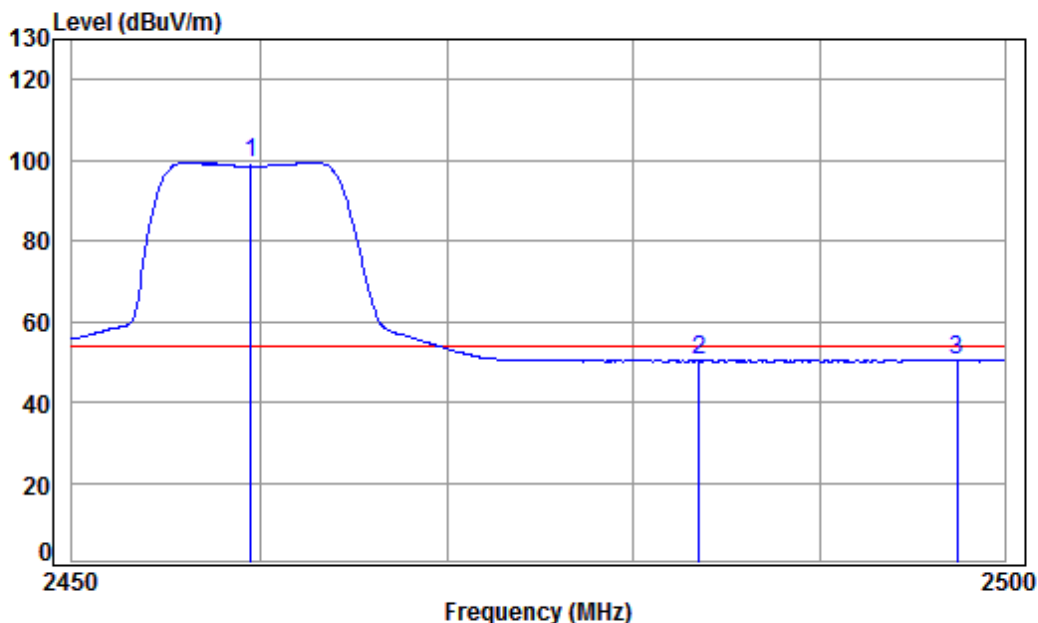
Job No : 04177CR

Mode : 2459.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2459.500 | 3.39  | 28.63  | 0.00   | 77.61 | 109.63 | 74.00  | 35.63 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.70 | 58.78  | 74.00  | -15.22 peak  |
| 3    | 2487.506 | 3.41  | 28.68  | 0.00   | 29.16 | 61.25  | 74.00  | -12.75 peak  |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2459.5MHz; Value:Average



Condition: 3m VERTICAL

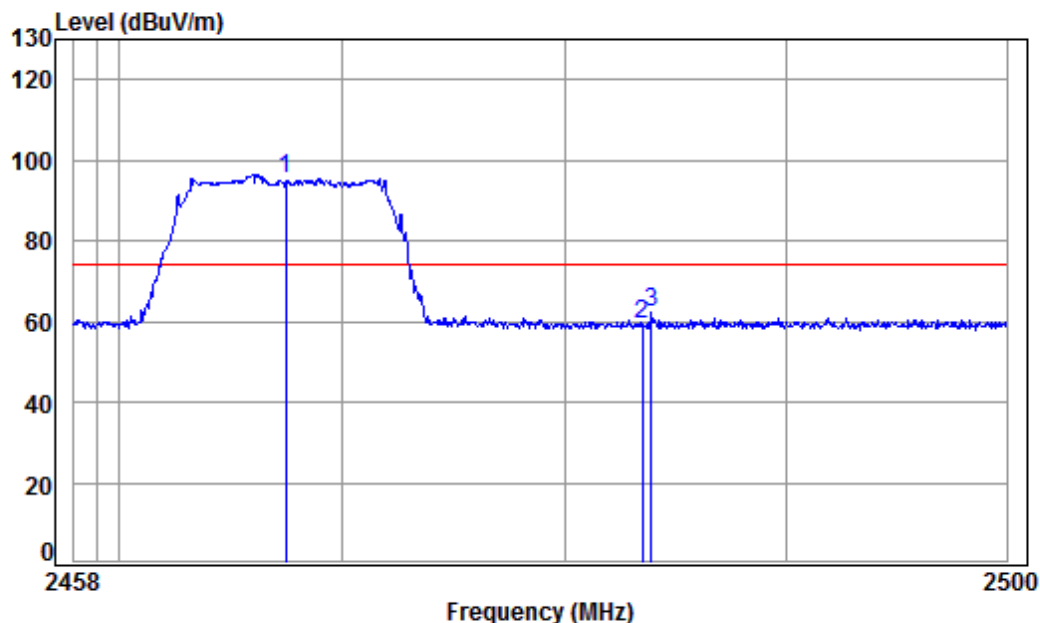
Job No : 04177CR

Mode : 2459.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2459.500 | 3.39  | 28.63  | 0.00   | 67.21 | 99.23  | 54.00  | 45.23 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.19 | 50.27  | 54.00  | -3.73 Average |
| 3    | 2497.426 | 3.42  | 28.70  | 0.00   | 18.28 | 50.40  | 54.00  | -3.60 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2467.5MHz; Value:Peak



Condition: 3m HORIZONTAL

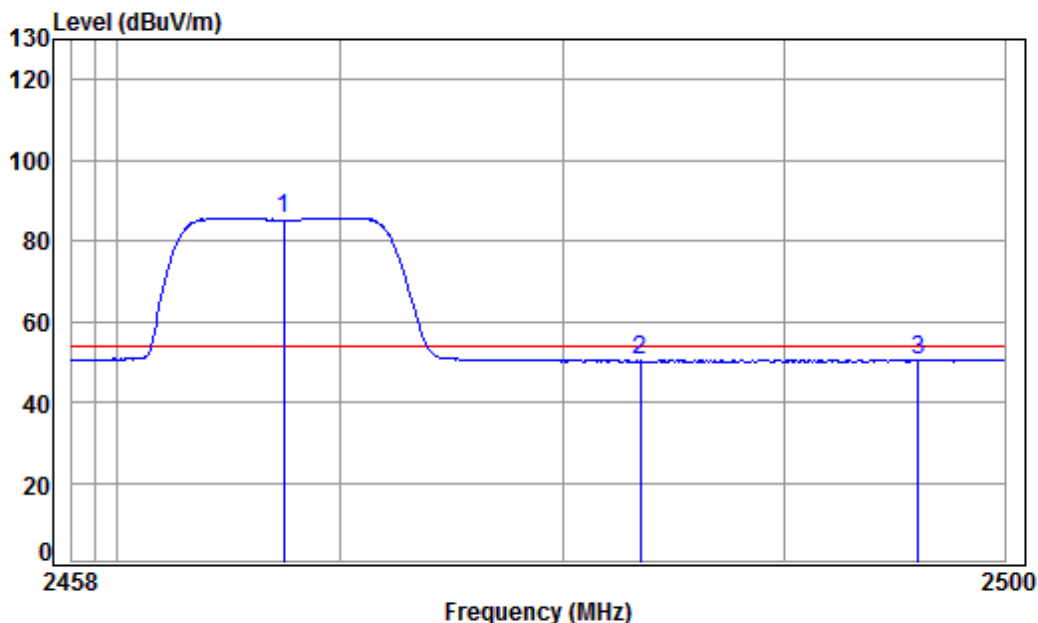
Job No : 04177CR

Mode : 2467.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2467.500 | 3.39  | 28.65  | 0.00   | 63.34 | 95.38  | 74.00  | 21.38 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.15 | 59.23  | 74.00  | -14.77 peak  |
| 3    | 2483.914 | 3.41  | 28.67  | 0.00   | 30.36 | 62.44  | 74.00  | -11.56 peak  |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2467.5MHz; Value:Average



Condition: 3m HORIZONTAL

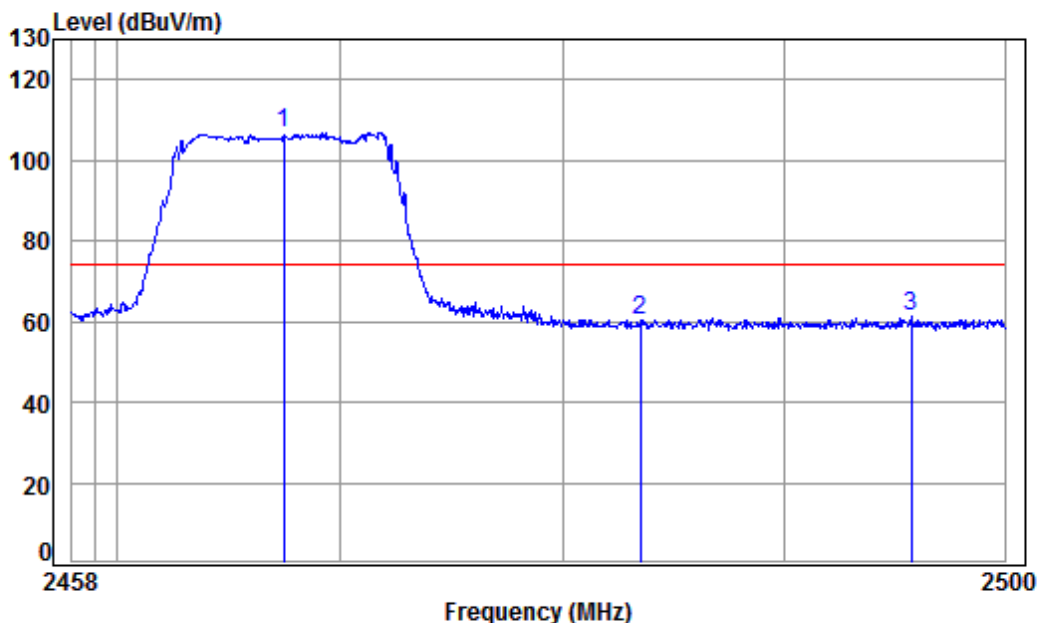
Job No : 04177CR

Mode : 2467.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2467.500 | 3.39  | 28.65  | 0.00   | 53.52 | 85.56  | 54.00  | 31.56 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.10 | 50.18  | 54.00  | -3.82 Average |
| 3 | 2496.064    | 3.42  | 28.69  | 0.00   | 18.36 | 50.47  | 54.00  | -3.53 Average |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2467.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

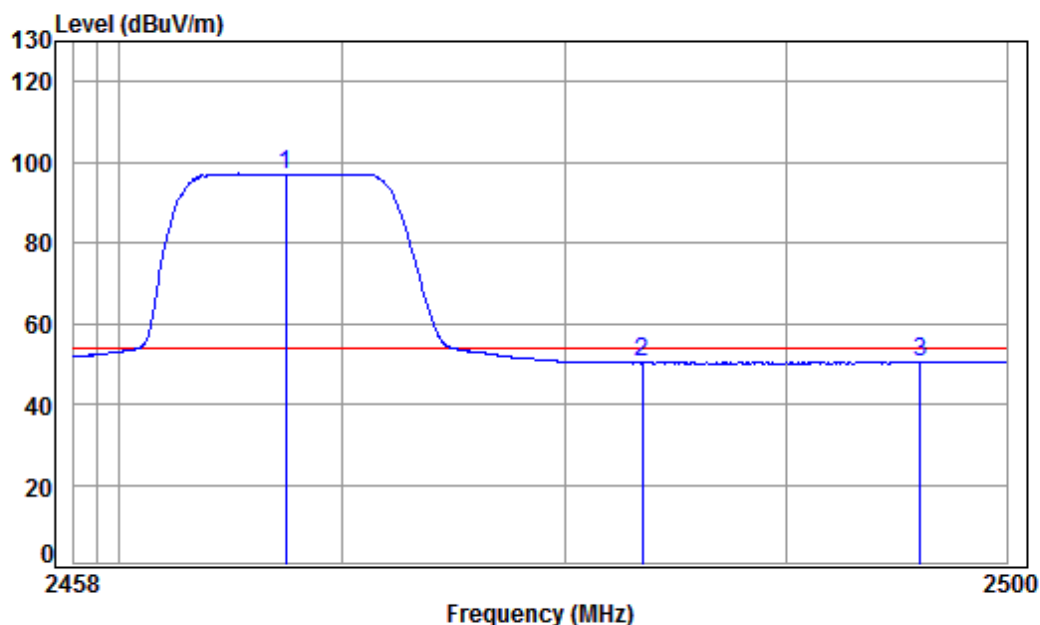
Mode : 2467.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2467.500 | 3.39  | 28.65  | 0.00   | 74.83 | 106.87 | 74.00  | 32.87 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 28.20 | 60.28  | 74.00  | -13.72 peak  |
| 3    | 2495.768 | 3.42  | 28.69  | 0.00   | 29.39 | 61.50  | 74.00  | -12.50 peak  |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2467.5MHz; Value:Average



Condition: 3m VERTICAL

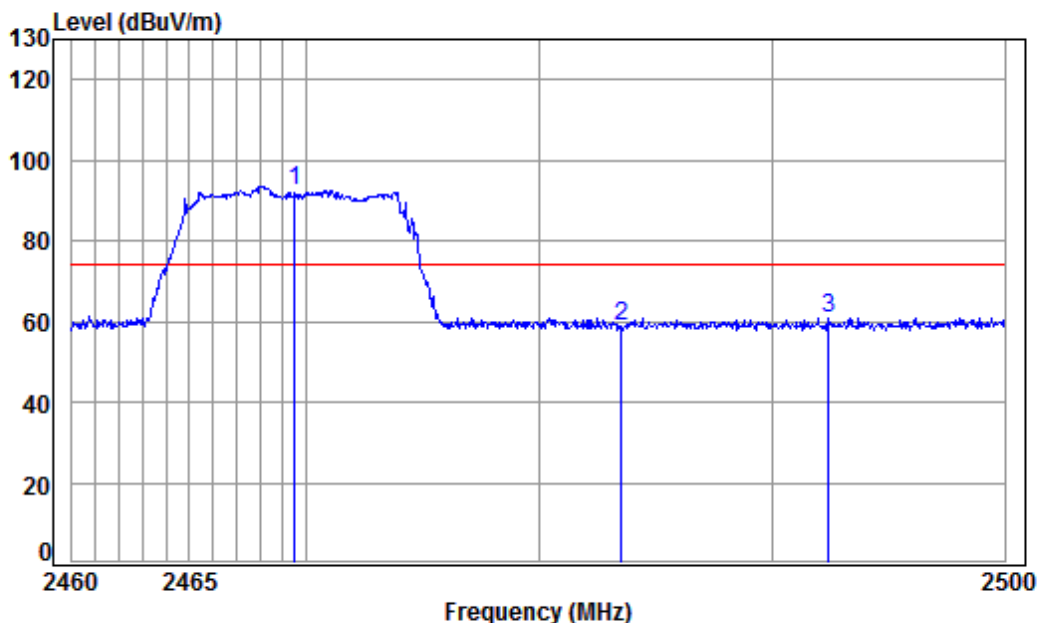
Job No : 04177CR

Mode : 2467.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2467.500 | 3.39  | 28.65  | 0.00   | 64.99 | 97.03  | 54.00  | 43.03 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.13 | 50.21  | 54.00  | -3.79 Average |
| 3    | 2496.064 | 3.42  | 28.69  | 0.00   | 18.38 | 50.49  | 54.00  | -3.51 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2469.5MHz; Value:Peak



Condition: 3m HORIZONTAL

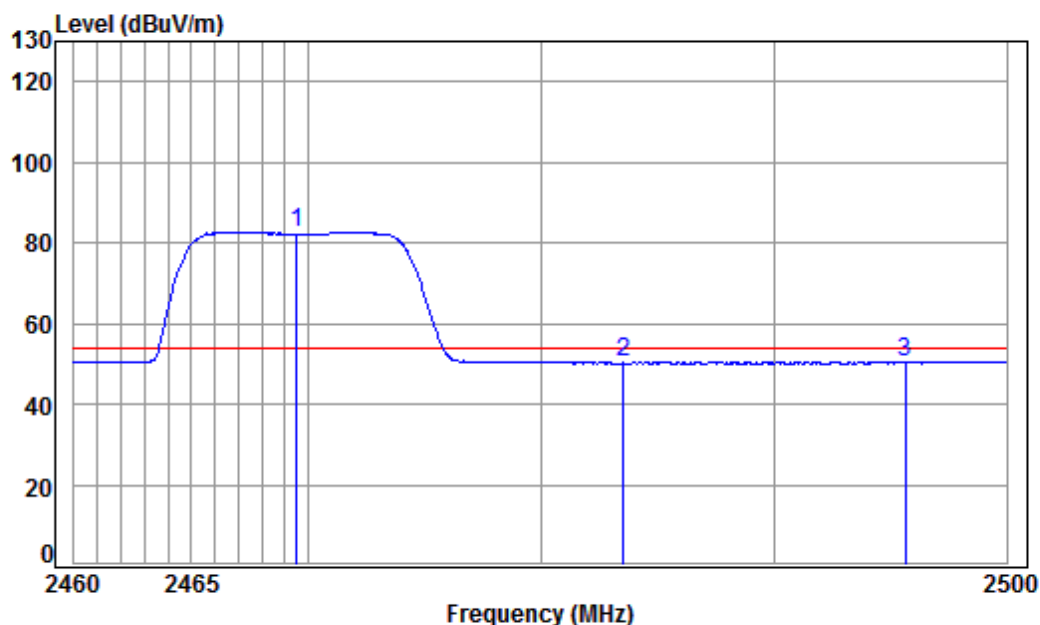
Job No : 04177CR

Mode : 2469.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2469.500 | 3.39  | 28.65  | 0.00   | 60.43 | 92.47  | 74.00  | 18.47 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.80 | 58.88  | 74.00  | -15.12 peak  |
| 3    | 2492.390 | 3.41  | 28.69  | 0.00   | 28.85 | 60.95  | 74.00  | -13.05 peak  |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2469.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

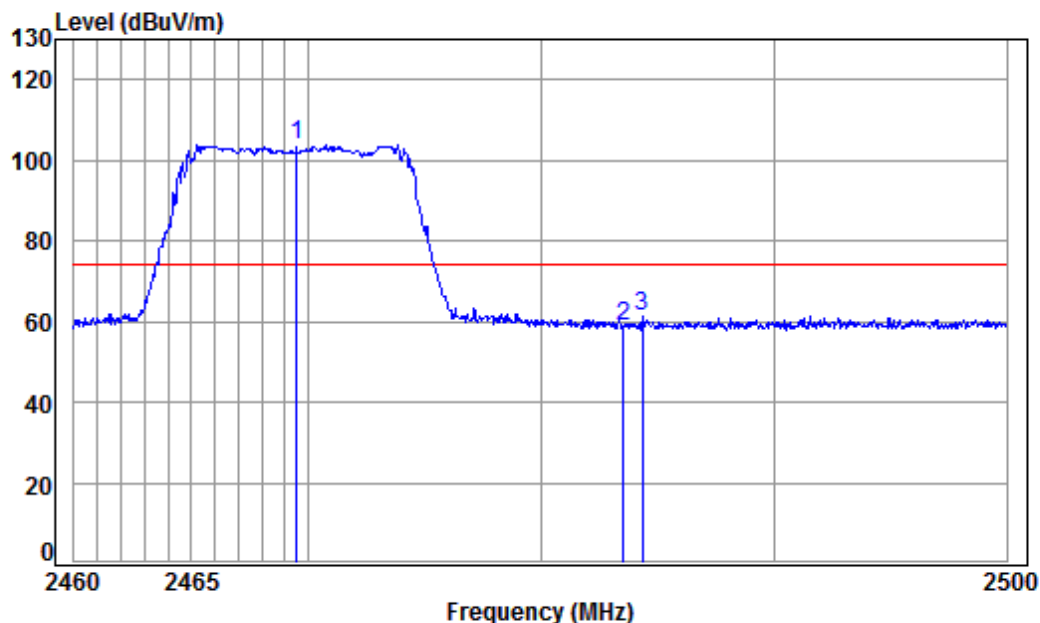
Mode : 2469.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2469.500 | 3.39  | 28.65  | 0.00   | 50.35 | 82.39  | 54.00  | 28.39 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.10 | 50.18  | 54.00  | -3.82 Average |
| 3    | 2495.609 | 3.42  | 28.69  | 0.00   | 18.33 | 50.44  | 54.00  | -3.56 Average |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2469.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

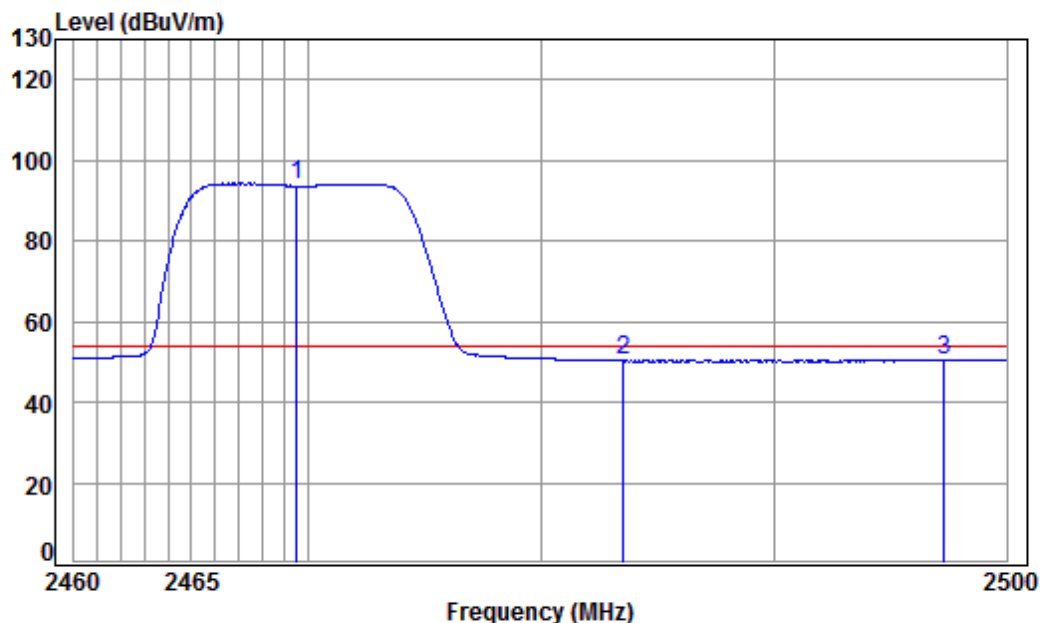
Mode : 2469.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2469.500 | 3.39  | 28.65  | 0.00   | 71.78 | 103.82 | 74.00  | 29.82 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.89 | 58.97  | 74.00  | -15.03 peak  |
| 3    | 2484.283 | 3.41  | 28.67  | 0.00   | 29.29 | 61.37  | 74.00  | -12.63 peak  |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2469.5MHz; Value:Average



Condition: 3m VERTICAL

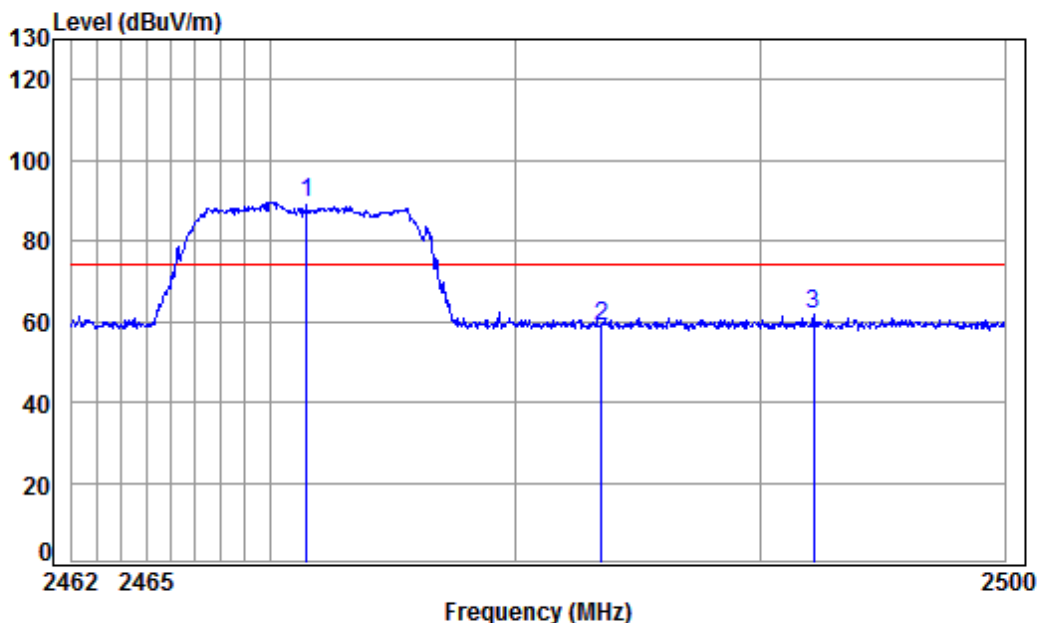
Job No : 04177CR

Mode : 2469.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2469.500 | 3.39  | 28.65  | 0.00   | 61.85 | 93.89  | 54.00  | 39.89 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.13 | 50.21  | 54.00  | -3.79 Average |
| 3    | 2497.300 | 3.42  | 28.70  | 0.00   | 18.24 | 50.36  | 54.00  | -3.64 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2471.5MHz; Value:Peak



Condition: 3m HORIZONTAL

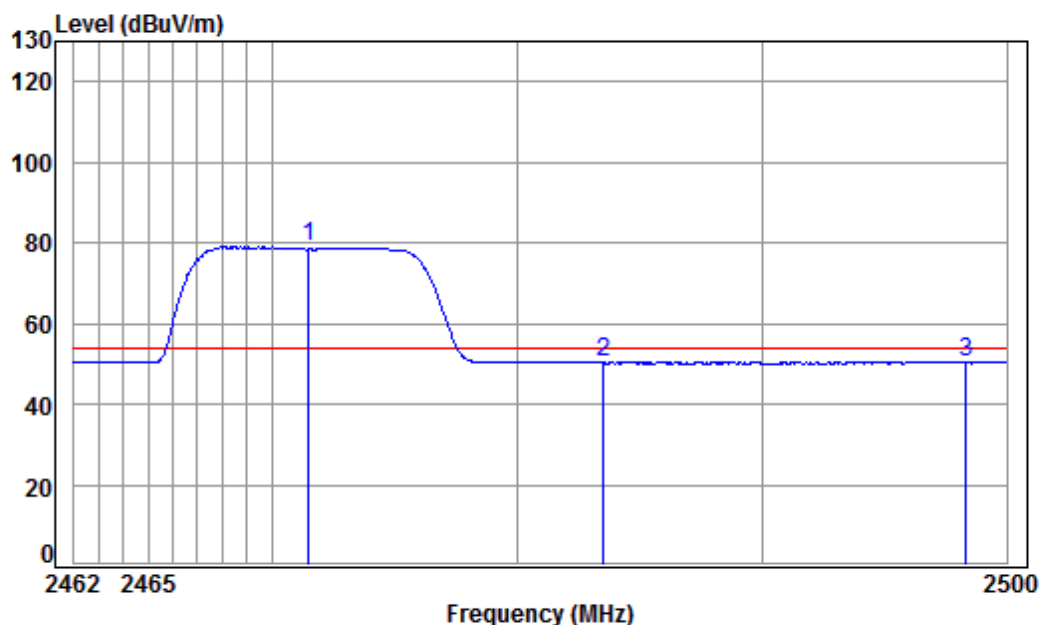
Job No : 04177CR

Mode : 2471.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 57.57 | 89.62  | 74.00  | 15.62 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.80 | 58.88  | 74.00  | -15.12 peak  |
| 3    | 2492.163 | 3.41  | 28.69  | 0.00   | 29.73 | 61.83  | 74.00  | -12.17 peak  |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2471.5MHz; Value:Average



Condition: 3m HORIZONTAL

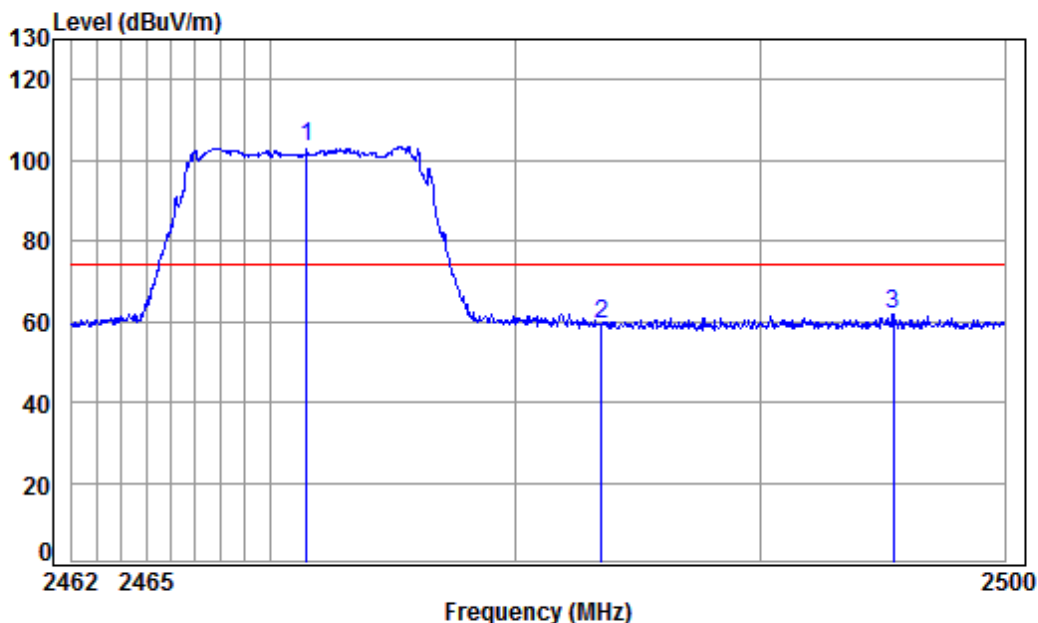
Job No : 04177CR

Mode : 2471.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 46.81 | 78.86  | 54.00  | 24.86 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.12 | 50.20  | 54.00  | -3.80 Average |
| 3    | 2498.354 | 3.42  | 28.70  | 0.00   | 18.26 | 50.38  | 54.00  | -3.62 Average |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2471.5MHz; Value:Peak



Condition: 3m VERTICAL

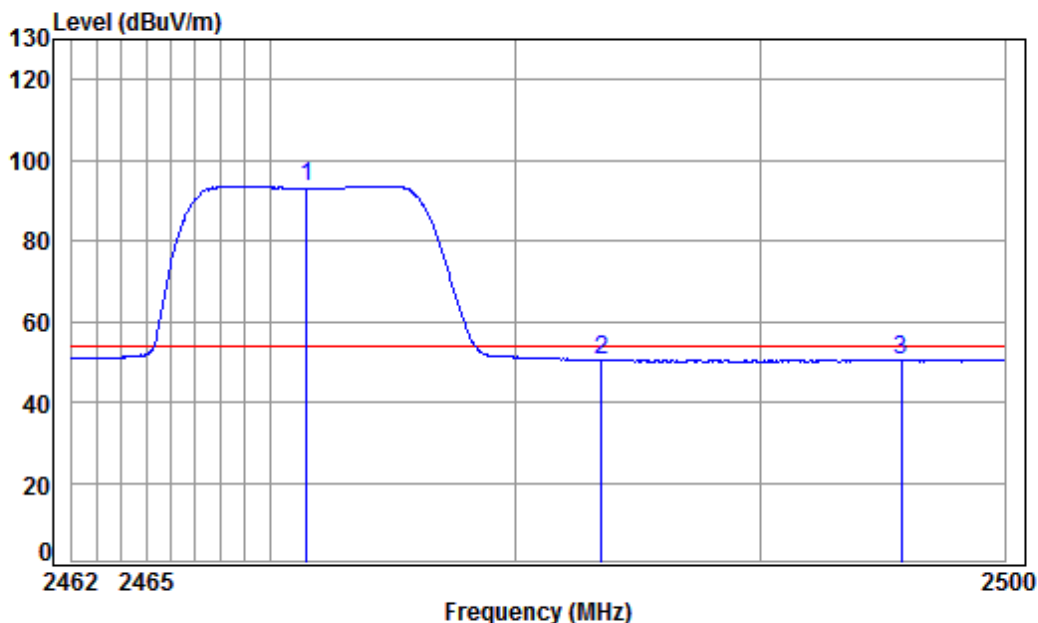
Job No : 04177CR

Mode : 2471.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 71.39 | 103.44 | 74.00  | 29.44 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.42 | 59.50  | 74.00  | -14.50 peak  |
| 3    | 2495.448 | 3.42  | 28.69  | 0.00   | 29.67 | 61.78  | 74.00  | -12.22 peak  |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2471.5MHz; Value:Average



Condition: 3m VERTICAL

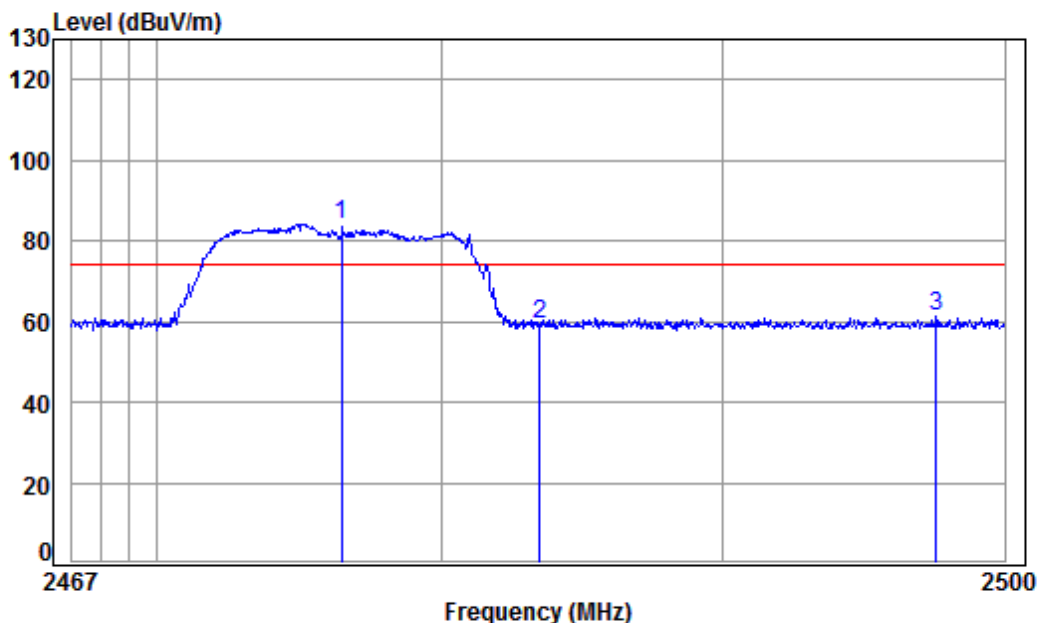
Job No : 04177CR

Mode : 2471.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 61.42 | 93.47  | 54.00  | 39.47 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.28 | 50.36  | 54.00  | -3.64 Average |
| 3    | 2495.753 | 3.42  | 28.69  | 0.00   | 18.36 | 50.47  | 54.00  | -3.53 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2476.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

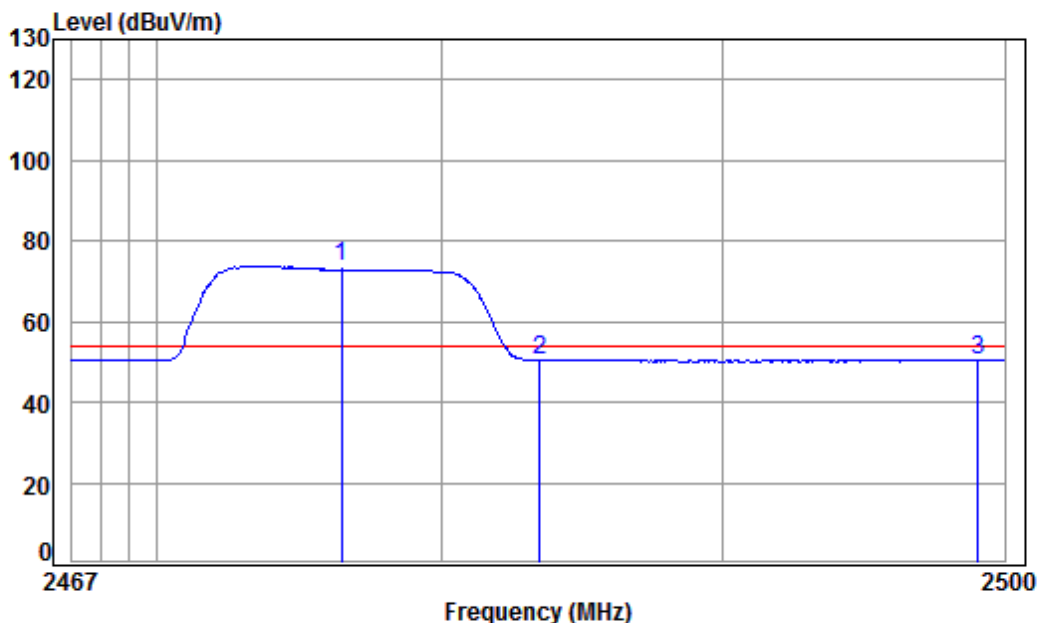
Mode : 2476.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2476.500 | 3.40  | 28.66  | 0.00   | 52.14 | 84.20  | 74.00  | 10.20 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.04 | 59.12  | 74.00  | -14.88 peak  |
| 3    | 2497.576 | 3.42  | 28.70  | 0.00   | 29.23 | 61.35  | 74.00  | -12.65 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2476.5MHz; Value:Average



Condition: 3m HORIZONTAL

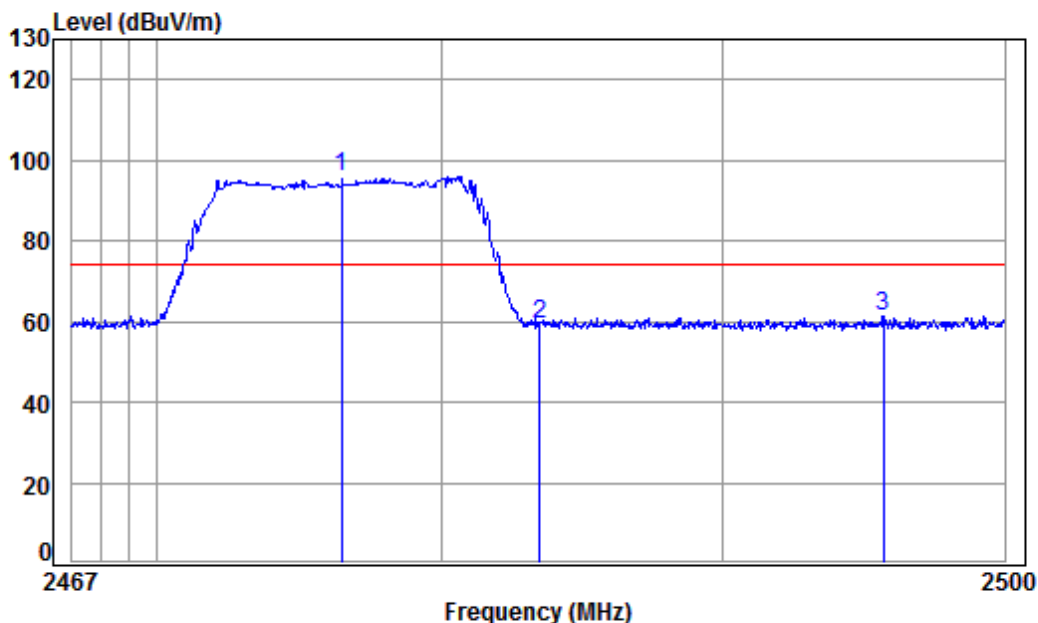
Job No : 04177CR

Mode : 2476.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2476.500 | 3.40  | 28.66  | 0.00   | 41.72 | 73.78  | 54.00  | 19.78 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.23 | 50.31  | 54.00  | -3.69 Average |
| 3    | 2499.037 | 3.42  | 28.70  | 0.00   | 18.40 | 50.52  | 54.00  | -3.48 Average |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2476.5MHz; Value:Peak



Condition: 3m VERTICAL

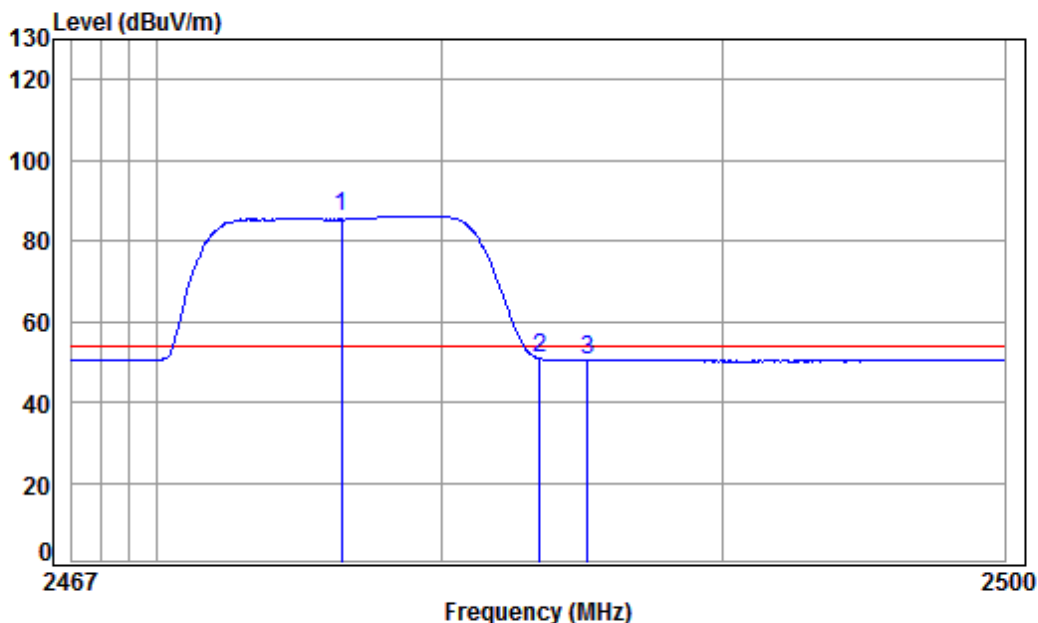
Job No : 04177CR

Mode : 2476.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2476.500 | 3.40  | 28.66  | 0.00   | 63.91 | 95.97  | 74.00  | 21.97 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.20 | 59.28  | 74.00  | -14.72 peak  |
| 3    | 2495.685 | 3.42  | 28.69  | 0.00   | 29.25 | 61.36  | 74.00  | -12.64 peak  |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2476.5MHz; Value:Average



Condition: 3m VERTICAL

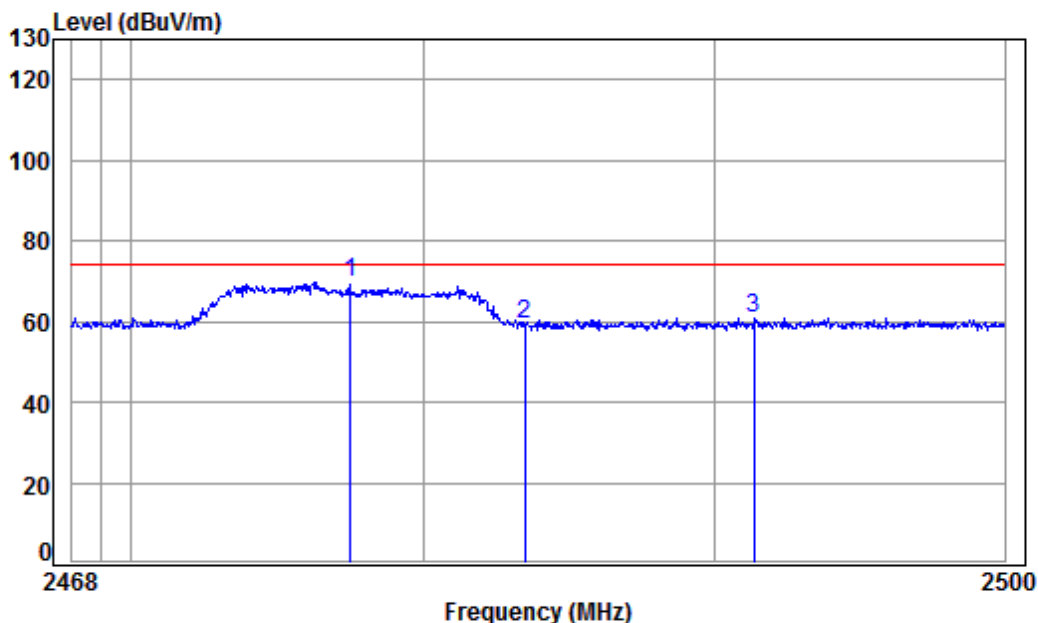
Job No : 04177CR

Mode : 2476.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2476.500 | 3.40  | 28.66  | 0.00   | 53.97 | 86.03  | 54.00  | 32.03 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.65 | 50.73  | 54.00  | -3.27 Average |
| 3    | 2485.195 | 3.41  | 28.68  | 0.00   | 18.46 | 50.55  | 54.00  | -3.45 Average |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2477.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

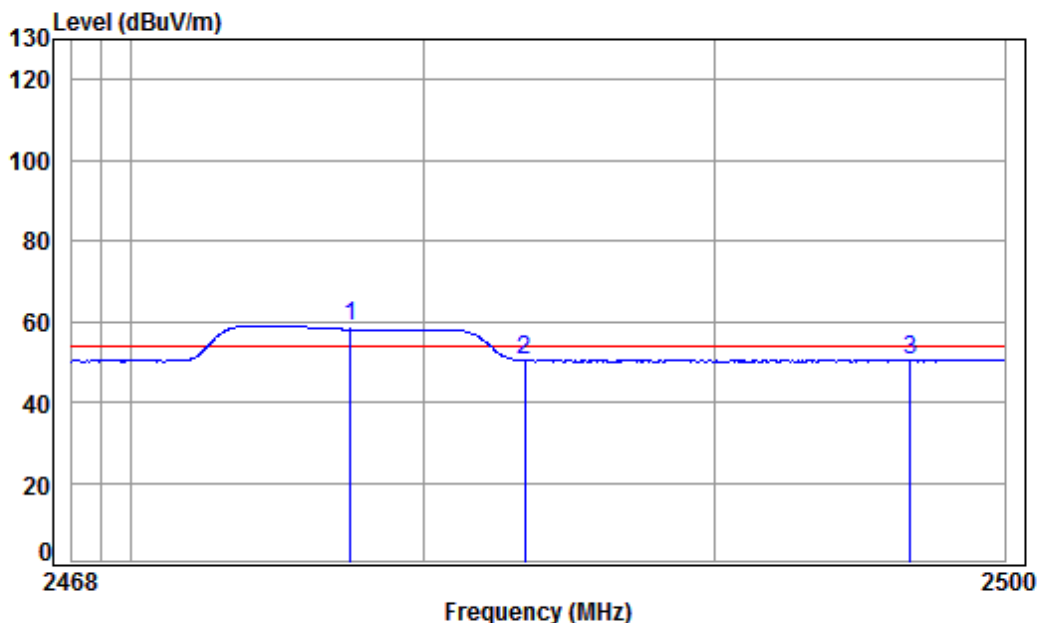
Mode : 2477.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2477.500 | 3.40  | 28.66  | 0.00   | 37.69 | 69.75  | 74.00  | -4.25 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.38 | 59.46  | 74.00  | -14.54 peak  |
| 3    | 2491.351 | 3.41  | 28.69  | 0.00   | 28.78 | 60.88  | 74.00  | -13.12 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2477.5MHz; Value:Average



Condition: 3m HORIZONTAL

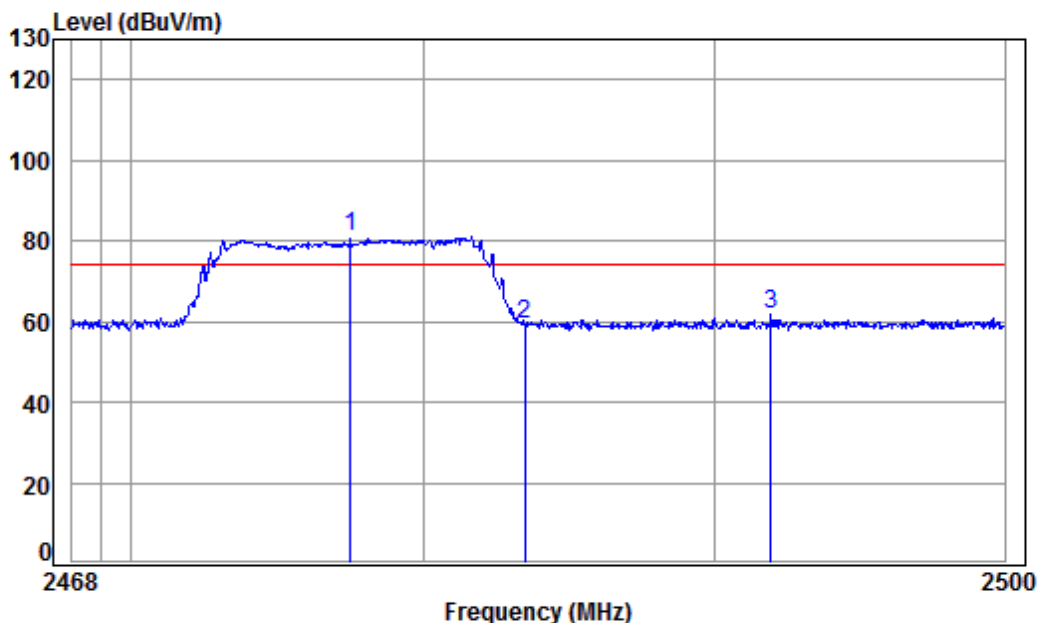
Job No : 04177CR

Mode : 2477.5 Band edge

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2477.500 | 3.40  | 28.66  | 0.00   | 26.94 | 59.00  | 54.00  | 5.00 Average  |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.13 | 50.21  | 54.00  | -3.79 Average |
| 3    | 2496.749 | 3.42  | 28.69  | 0.00   | 18.25 | 50.36  | 54.00  | -3.64 Average |

Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2477.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

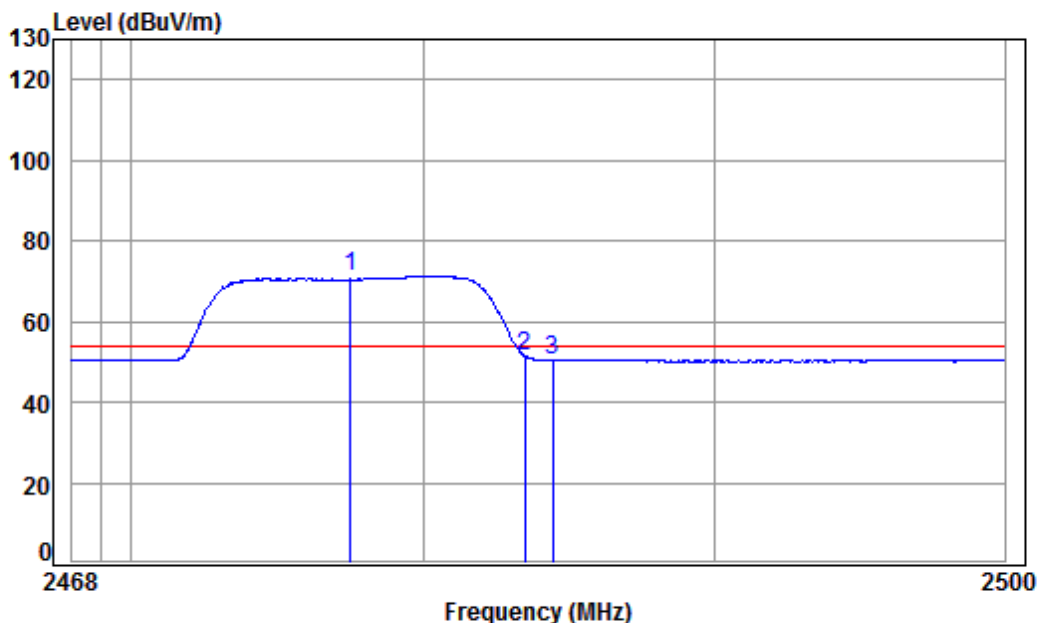
Mode : 2477.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|---|-------------|-------|--------|--------|-------|--------|--------|--------|--------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 | pp 2477.500 | 3.40  | 28.66  | 0.00   | 48.85 | 80.91  | 74.00  | 6.91   | peak   |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 27.29 | 59.37  | 74.00  | -14.63 | peak   |
| 3 | 2491.929    | 3.41  | 28.69  | 0.00   | 29.90 | 62.00  | 74.00  | -12.00 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2477.5MHz; Value:Average



Condition: 3m VERTICAL

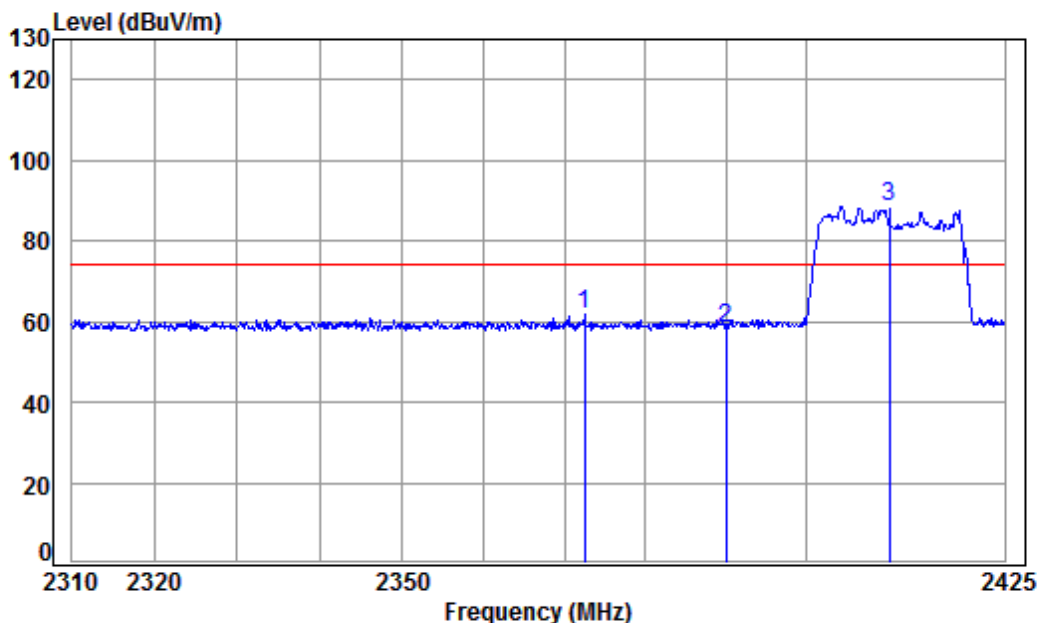
Job No : 04177CR

Mode : 2477.5 Band edge

Note : 10M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2477.500 | 3.40  | 28.66  | 0.00   | 38.96 | 71.02  | 54.00  | 17.02 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 19.39 | 51.47  | 54.00  | -2.53 Average |
| 3 | 2484.460    | 3.41  | 28.67  | 0.00   | 18.42 | 50.50  | 54.00  | -3.50 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2410.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

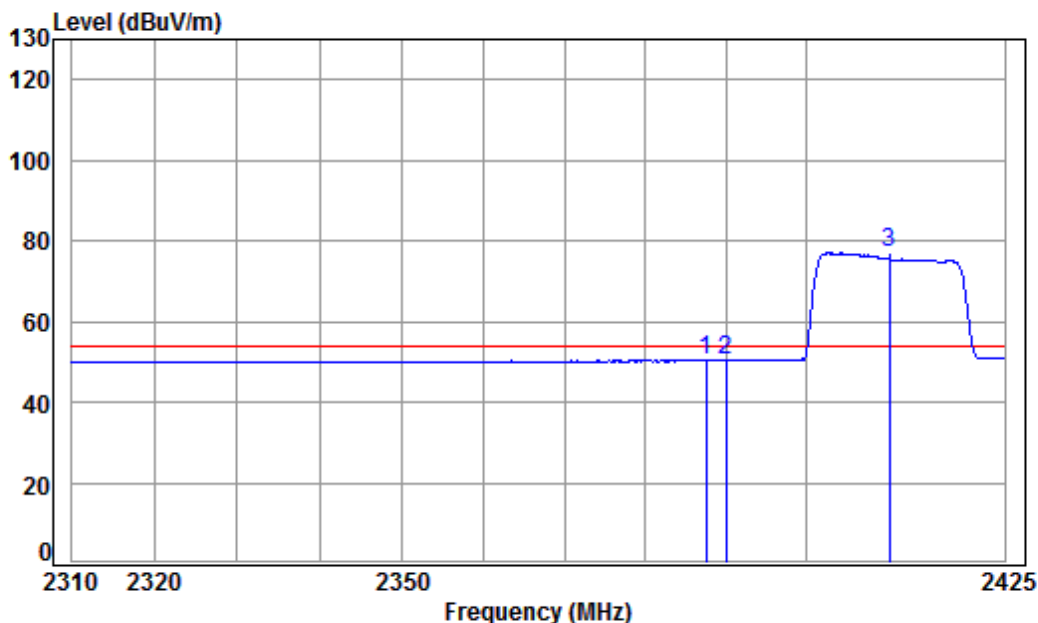
Mode : 2410.5 Band edge

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1    | 2372.558 | 3.32       | 28.49      | 0.00                | 29.85      | 61.66  | 74.00  | -12.34     | peak   |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00                | 26.40      | 58.25  | 74.00  | -15.75     | peak   |
| 3 pp | 2410.500 | 3.35       | 28.55      | 0.00                | 56.59      | 88.49  | 74.00  | 14.49      | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2410.5MHz; Value:Average



Condition: 3m HORIZONTAL

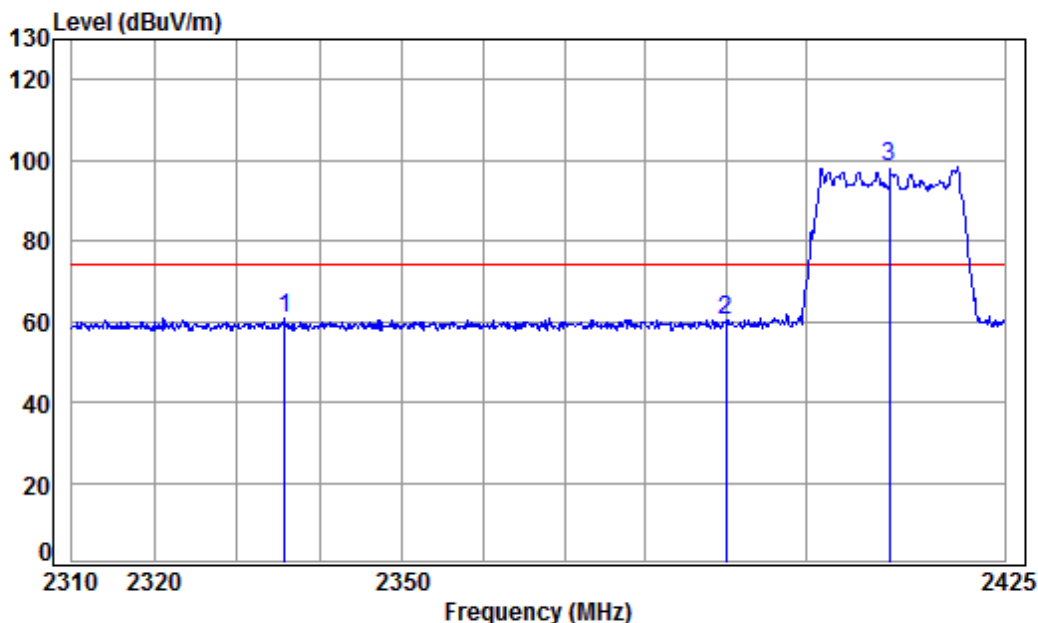
Job No : 04177CR

Mode : 2410.5 Band edge

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2387.590 | 3.33       | 28.51      | 0.00          | 18.61      | 50.45  | 54.00      | -3.55      | Average |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00          | 18.41      | 50.26  | 54.00      | -3.74      | Average |
| 3 pp | 2410.500 | 3.35       | 28.55      | 0.00          | 45.32      | 77.22  | 54.00      | 23.22      | Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2410.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

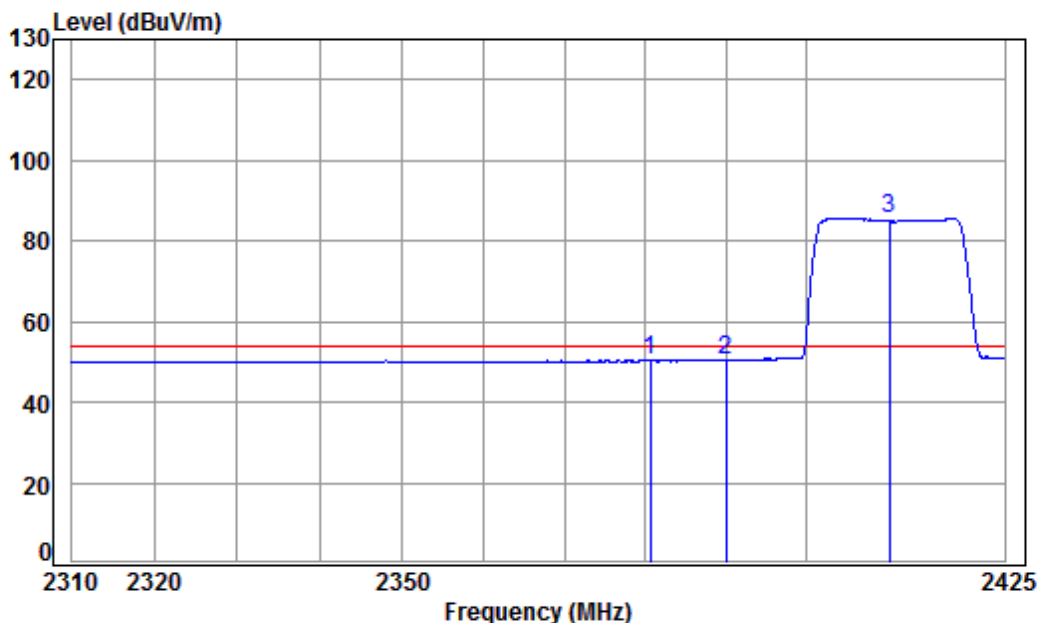
Mode : 2410.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2335.730 | 3.29  | 28.43  | 0.00   | 29.25 | 60.97  | 74.00  | -13.03 peak  |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 28.65 | 60.50  | 74.00  | -13.50 peak  |
| 3 pp | 2410.500 | 3.35  | 28.55  | 0.00   | 66.45 | 98.35  | 74.00  | 24.35 peak   |



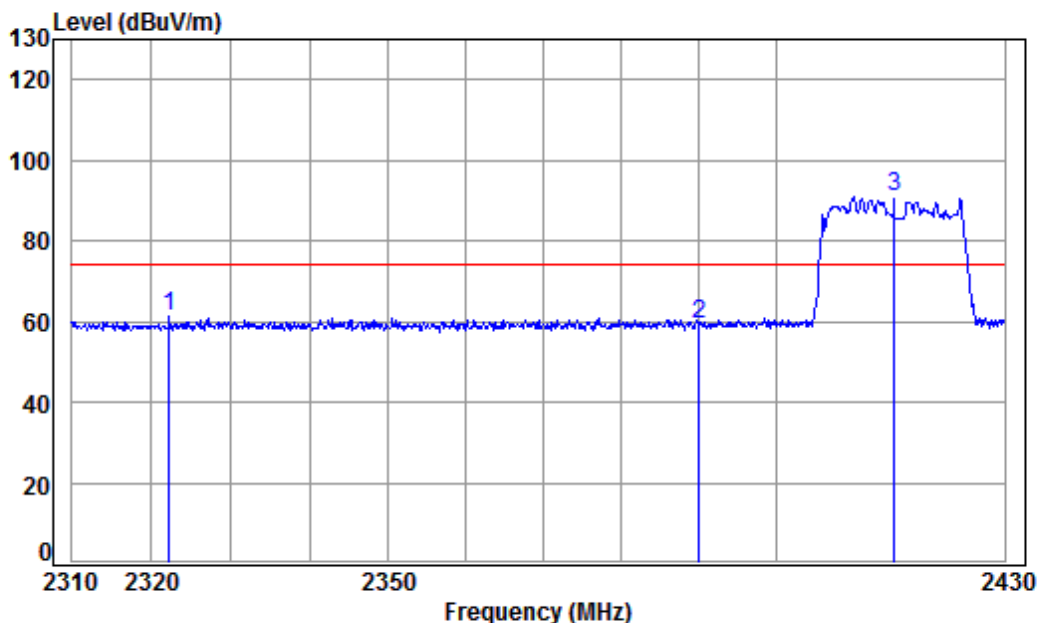
Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2410.5MHz; Value:Average



Condition: 3m VERTICAL  
Job No : 04177CR  
Mode : 2410.5 Band edge  
Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2380.641 | 3.32       | 28.50      | 0.00          | 18.58      | 50.40  | 54.00      | -3.60      | Average |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00          | 18.51      | 50.36  | 54.00      | -3.64      | Average |
| 3 pp | 2410.500 | 3.35       | 28.55      | 0.00          | 53.82      | 85.72  | 54.00      | 31.72      | Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2415.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

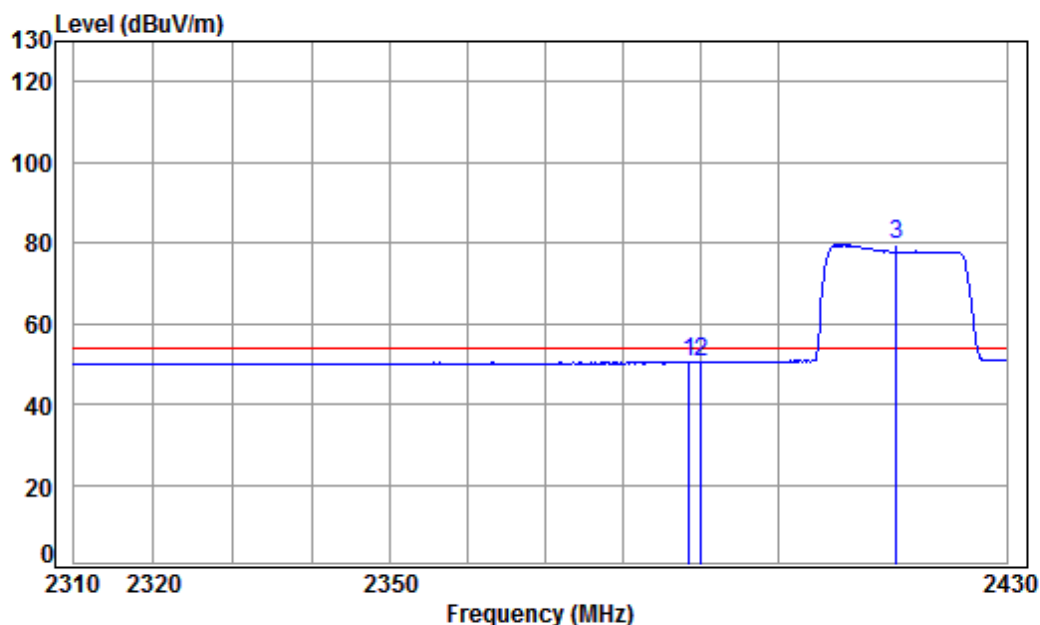
Mode : 2415.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 2322.199 | 3.27  | 28.40  | 0.00   | 29.46 | 61.13  | 74.00  | -12.87 peak |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.35 | 59.20  | 74.00  | -14.80 peak |
| 3 pp | 2415.500 | 3.35  | 28.56  | 0.00   | 58.81 | 90.72  | 74.00  | 16.72 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2415.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

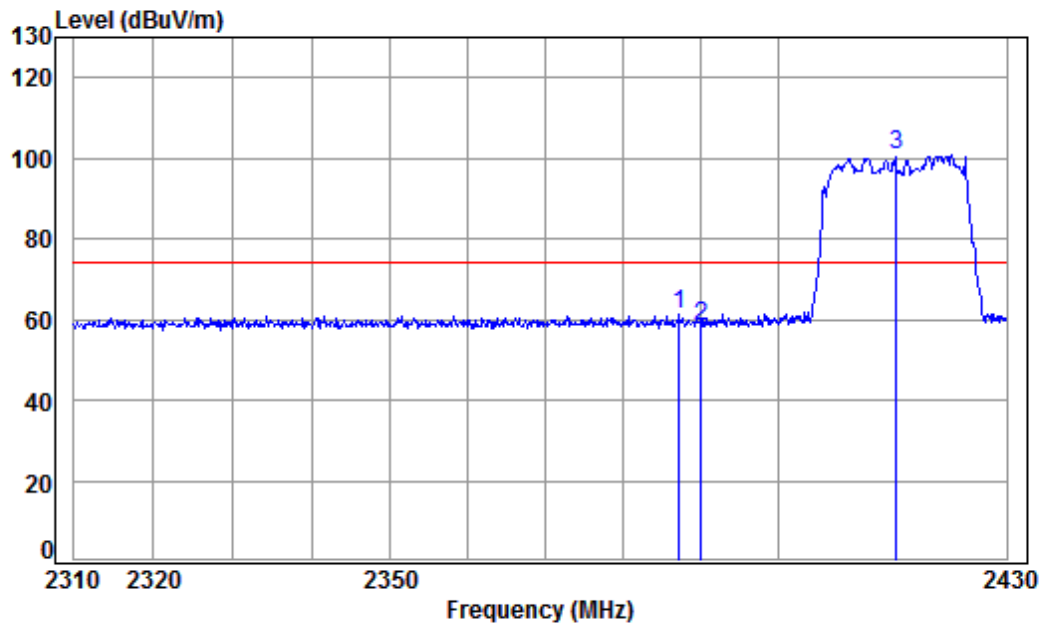
Mode : 2415.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | 2388.516    | 3.33  | 28.52  | 0.00   | 18.58 | 50.43  | 54.00  | -3.57 Average |
| 2 | 2390.000    | 3.33  | 28.52  | 0.00   | 18.39 | 50.24  | 54.00  | -3.76 Average |
| 3 | pp 2415.500 | 3.35  | 28.56  | 0.00   | 47.75 | 79.66  | 54.00  | 25.66 Average |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2415.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

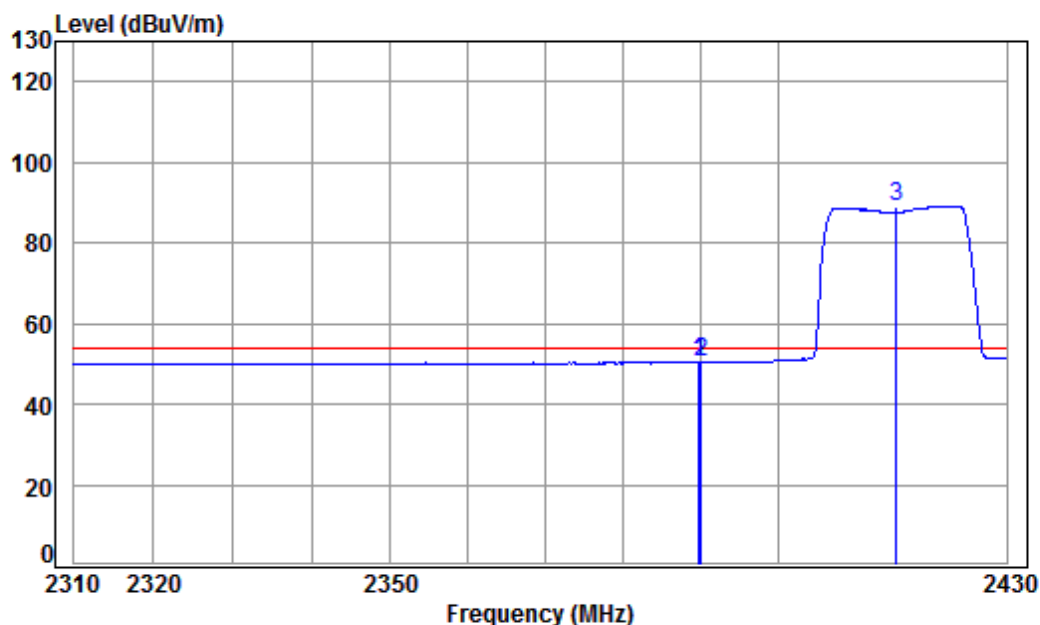
Mode : 2415.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2387.186 | 3.33  | 28.51  | 0.00   | 29.23 | 61.07  | 74.00  | -12.93 | peak   |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 26.66 | 58.51  | 74.00  | -15.49 | peak   |
| 3 pp | 2415.500 | 3.35  | 28.56  | 0.00   | 68.76 | 100.67 | 74.00  | 26.67  | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2415.5MHz; Value:Average



Condition: 3m VERTICAL

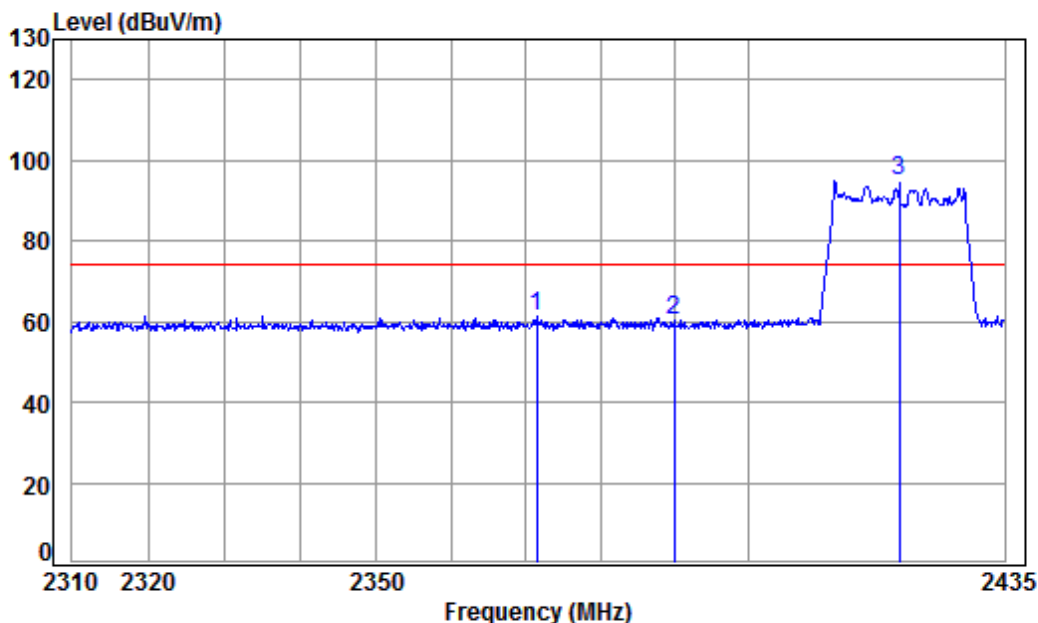
Job No : 04177CR

Mode : 2415.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2389.726 | 3.33  | 28.52  | 0.00   | 18.52 | 50.37  | 54.00  | -3.63 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.46 | 50.31  | 54.00  | -3.69 Average |
| 3 pp | 2415.500 | 3.35  | 28.56  | 0.00   | 57.31 | 89.22  | 54.00  | 35.22 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2420.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

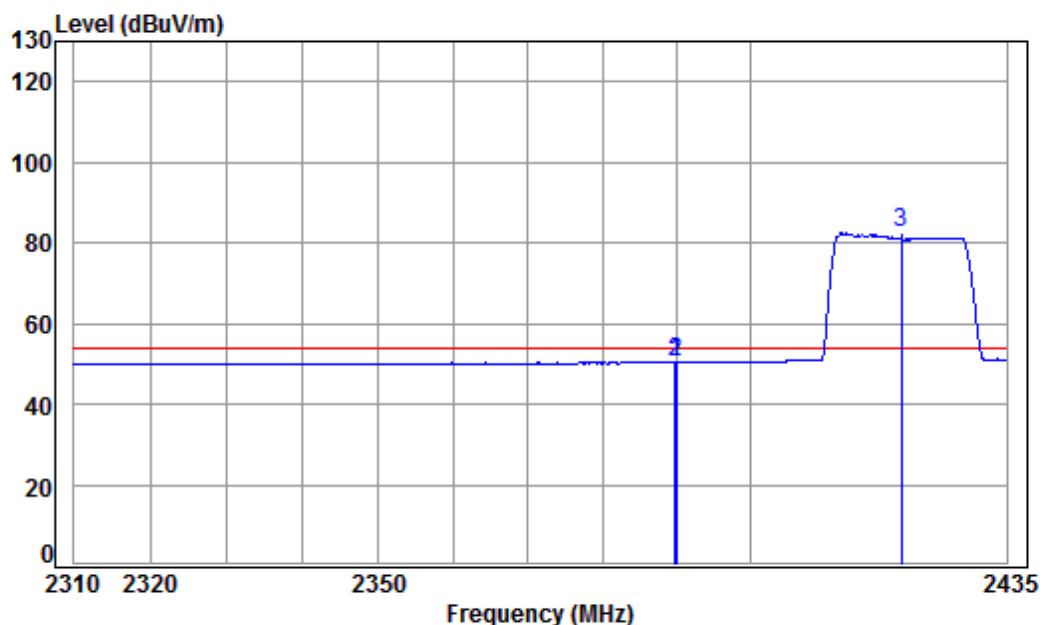
Mode : 2420.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 2371.427 | 3.31  | 28.49  | 0.00   | 29.51 | 61.31  | 74.00  | -12.69 peak |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 28.39 | 60.24  | 74.00  | -13.76 peak |
| 3 pp | 2420.500 | 3.35  | 28.57  | 0.00   | 63.09 | 95.01  | 74.00  | 21.01 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2420.5MHz; Value:Average



Condition: 3m HORIZONTAL

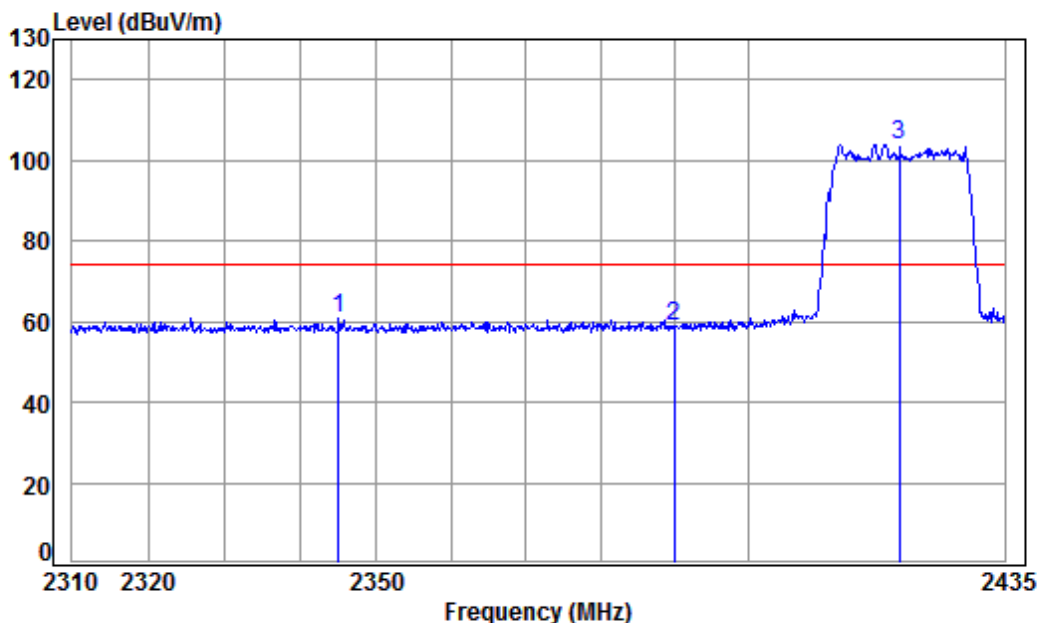
Job No : 04177CR

Mode : 2420.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2389.869 | 3.33  | 28.52  | 0.00   | 18.54 | 50.39  | 54.00  | -3.61 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.55 | 50.40  | 54.00  | -3.60 Average |
| 3 pp | 2420.500 | 3.35  | 28.57  | 0.00   | 50.48 | 82.40  | 54.00  | 28.40 Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2420.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

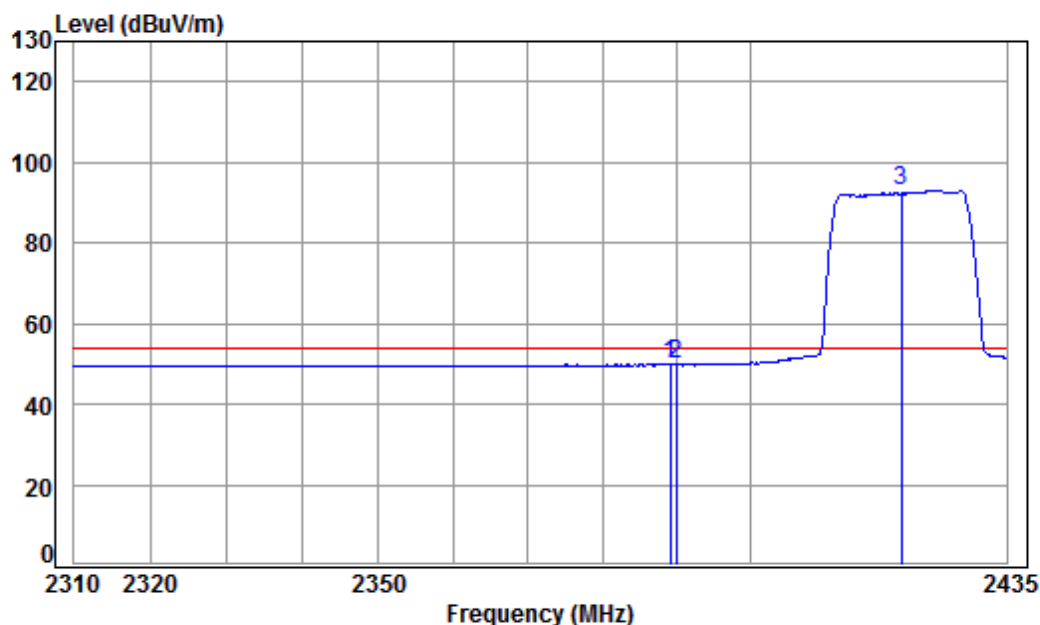
Mode : 2420.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 2345.080 | 3.29  | 28.44  | 0.00   | 29.21 | 60.94  | 74.00  | -13.06 peak |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 26.87 | 58.72  | 74.00  | -15.28 peak |
| 3 pp | 2420.500 | 3.35  | 28.57  | 0.00   | 71.88 | 103.80 | 74.00  | 29.80 peak  |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2420.5MHz; Value:Average



Condition: 3m VERTICAL

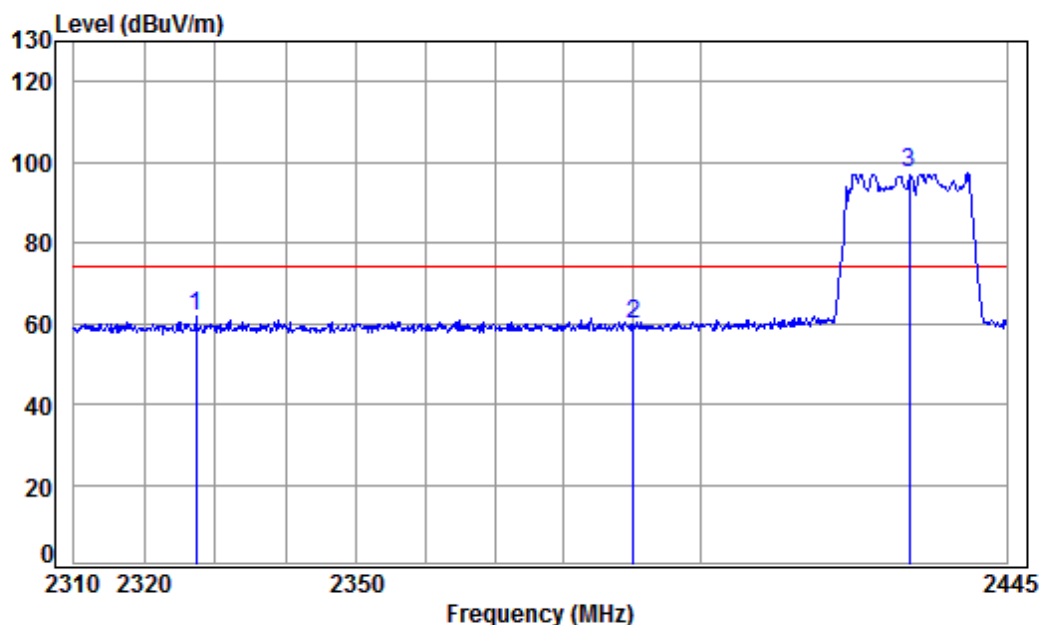
Job No : 04177CR

Mode : 2420.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2389.113 | 3.33  | 28.52  | 0.00   | 17.96 | 49.81  | 54.00  | -4.19 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 17.93 | 49.78  | 54.00  | -4.22 Average |
| 3 pp | 2420.500 | 3.35  | 28.57  | 0.00   | 60.99 | 92.91  | 54.00  | 38.91 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2430.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

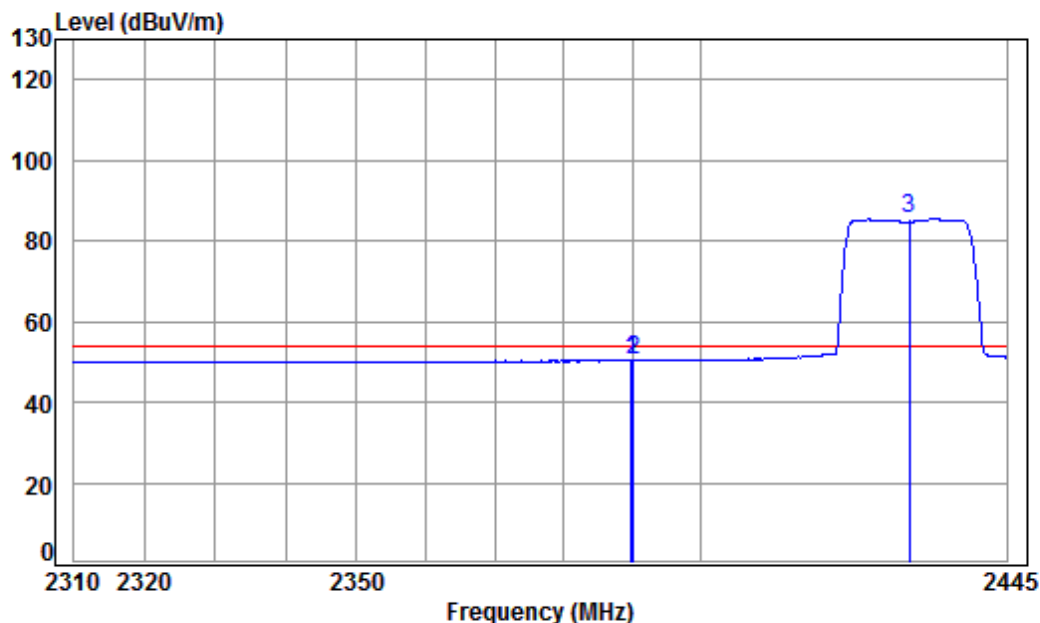
Mode : 2430.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2327.252 | 3.28  | 28.41  | 0.00   | 29.88 | 61.57  | 74.00  | -12.43 peak  |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.87 | 59.72  | 74.00  | -14.28 peak  |
| 3 pp | 2430.500 | 3.36  | 28.59  | 0.00   | 65.64 | 97.59  | 74.00  | 23.59 peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2430.5MHz; Value:Average



Condition: 3m HORIZONTAL

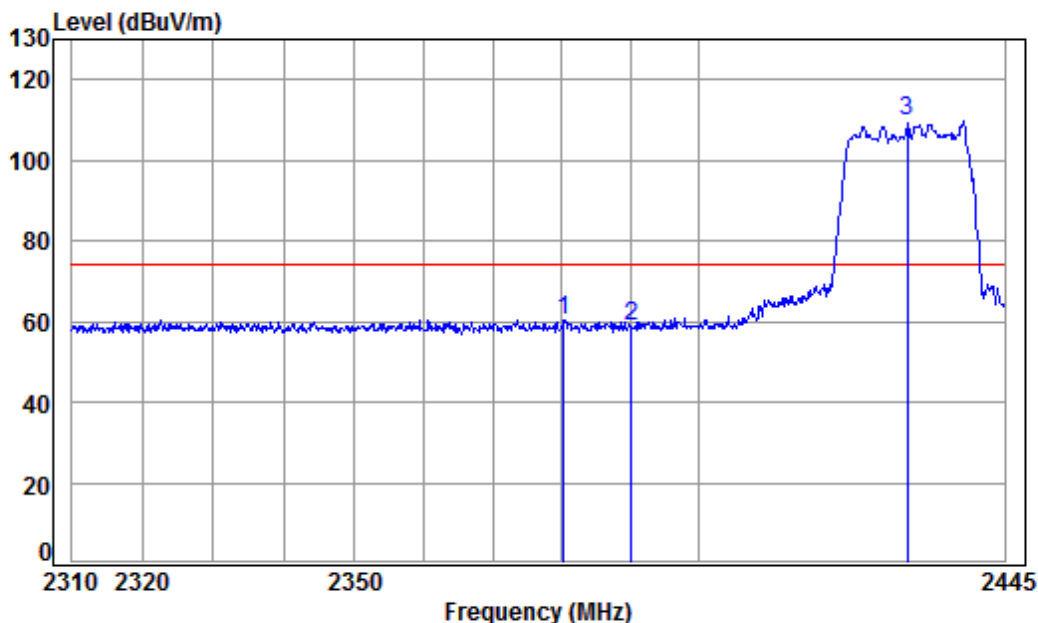
Job No : 04177CR

Mode : 2430.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2389.807 | 3.33  | 28.52  | 0.00   | 18.65 | 50.50  | 54.00  | -3.50 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 18.48 | 50.33  | 54.00  | -3.67 Average |
| 3 pp | 2430.500 | 3.36  | 28.59  | 0.00   | 53.40 | 85.35  | 54.00  | 31.35 Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2430.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

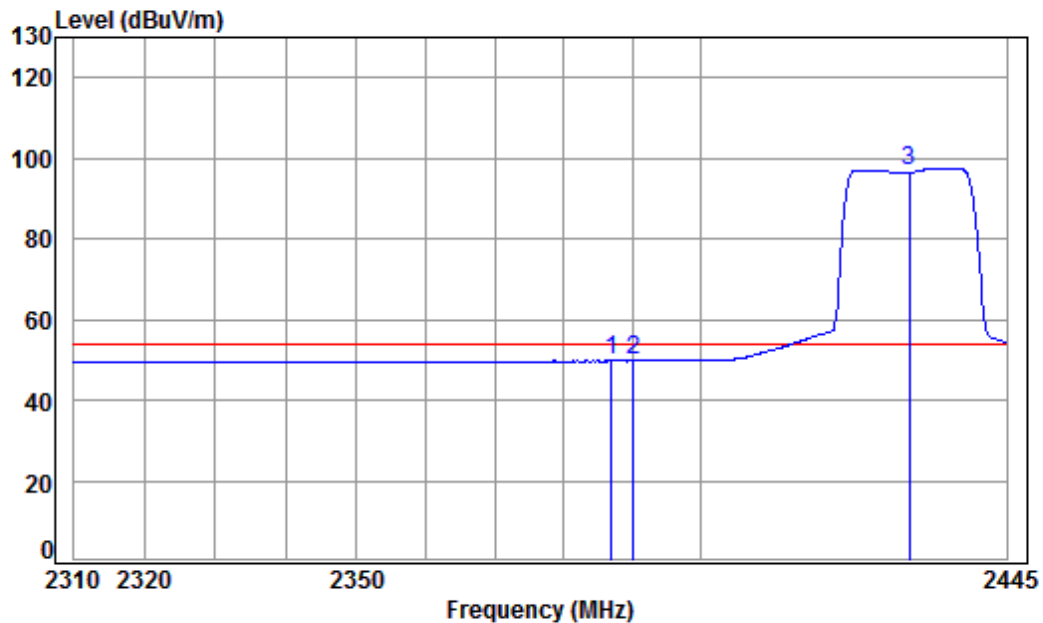
Mode : 2430.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2380.189 | 3.32  | 28.50  | 0.00   | 28.72 | 60.54  | 74.00  | -13.46 | peak   |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 26.99 | 58.84  | 74.00  | -15.16 | peak   |
| 3 pp | 2430.500 | 3.36  | 28.59  | 0.00   | 77.73 | 109.68 | 74.00  | 35.68  | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2430.5MHz; Value:Average



Condition: 3m VERTICAL

Job No : 04177CR

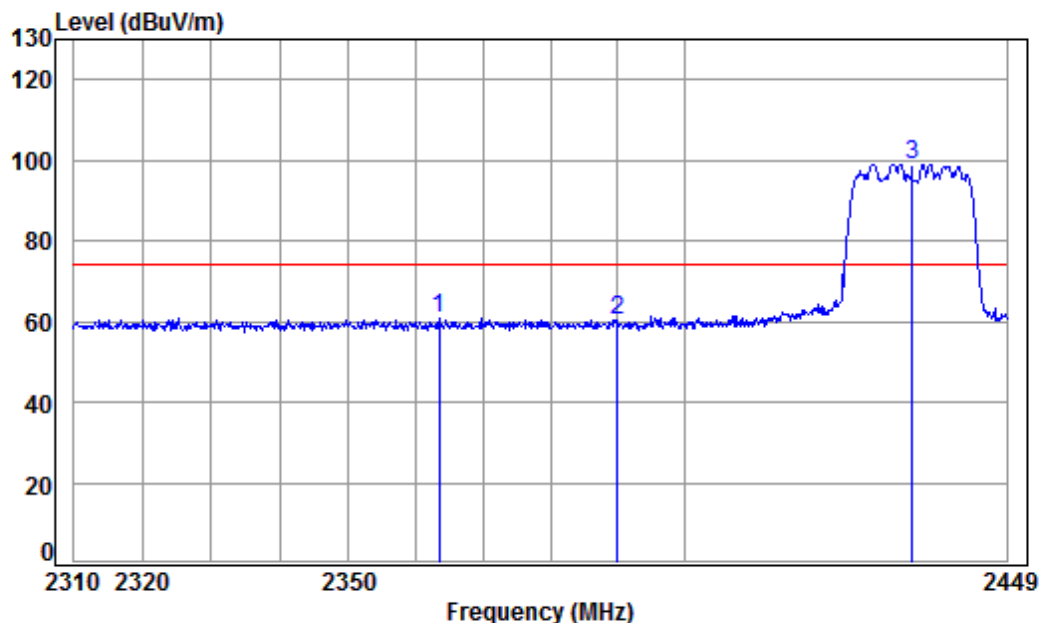
Mode : 2430.5 Band edge

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2386.823 | 3.33       | 28.51      | 0.00          | 17.95      | 49.79  | 54.00      | -4.21      | Average |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00          | 17.90      | 49.75  | 54.00      | -4.25      | Average |
| 3 pp | 2430.500 | 3.36       | 28.59      | 0.00          | 65.03      | 96.98  | 54.00      | 42.98      | Average |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2434.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

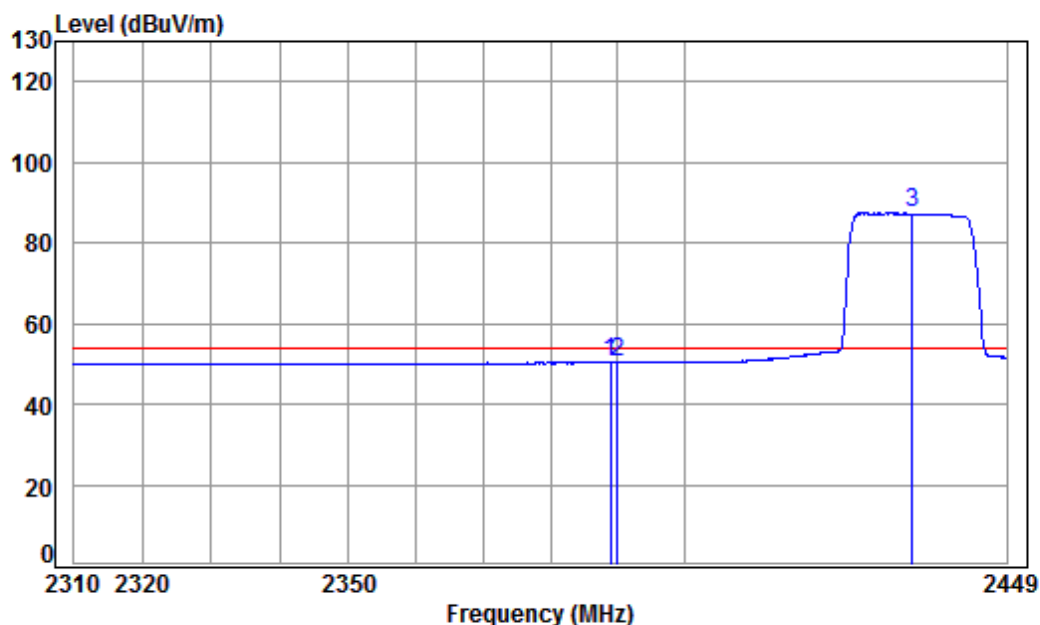
Mode : 2434.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2363.522 | 3.31  | 28.47  | 0.00   | 29.26 | 61.04  | 74.00  | -12.96 peak  |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 28.34 | 60.19  | 74.00  | -13.81 peak  |
| 3 pp | 2434.500 | 3.37  | 28.59  | 0.00   | 67.08 | 99.04  | 74.00  | 25.04 peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2434.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

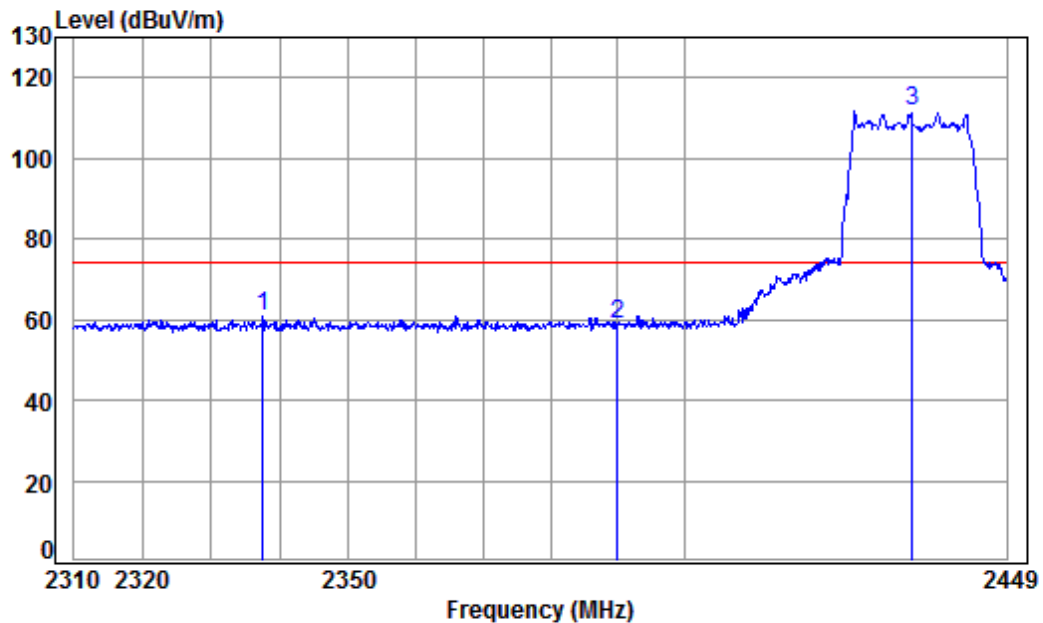
Mode : 2434.5 Band edge

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2388.931 | 3.33       | 28.52      | 0.00          | 18.53      | 50.38  | 54.00      | -3.62      | Average |
| 2    | 2390.000 | 3.33       | 28.52      | 0.00          | 18.44      | 50.29  | 54.00      | -3.71      | Average |
| 3 pp | 2434.500 | 3.37       | 28.59      | 0.00          | 55.55      | 87.51  | 54.00      | 33.51      | Average |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2434.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

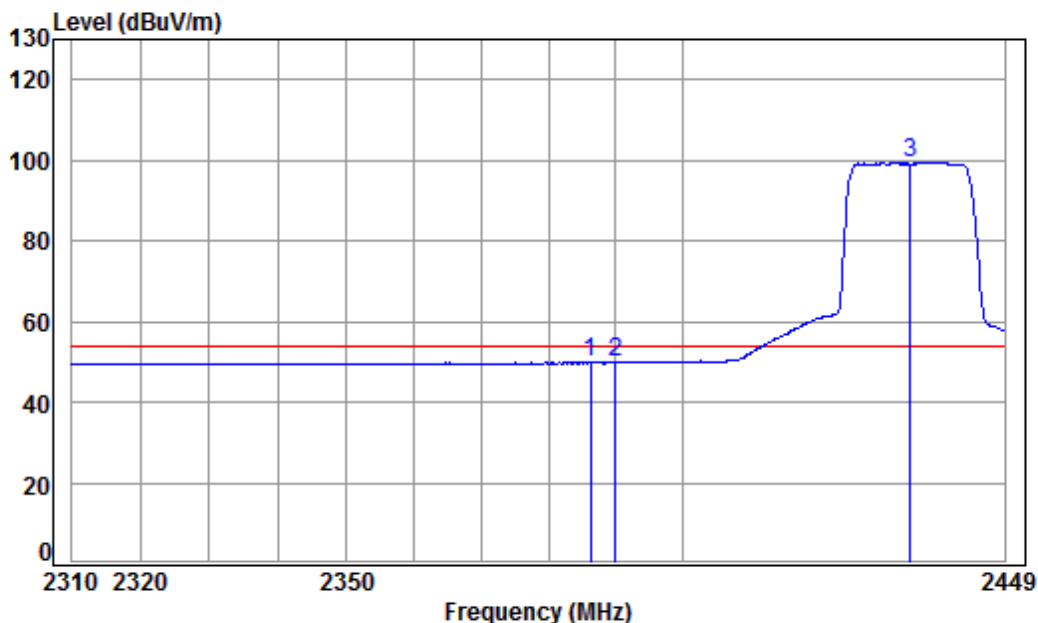
Mode : 2434.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1    | 2337.564 | 3.29  | 28.43  | 0.00   | 29.02 | 60.74  | 74.00  | -13.26 peak  |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.18 | 59.03  | 74.00  | -14.97 peak  |
| 3 pp | 2434.500 | 3.37  | 28.59  | 0.00   | 79.64 | 111.60 | 74.00  | 37.60 peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2434.5MHz; Value:Average



Condition: 3m VERTICAL

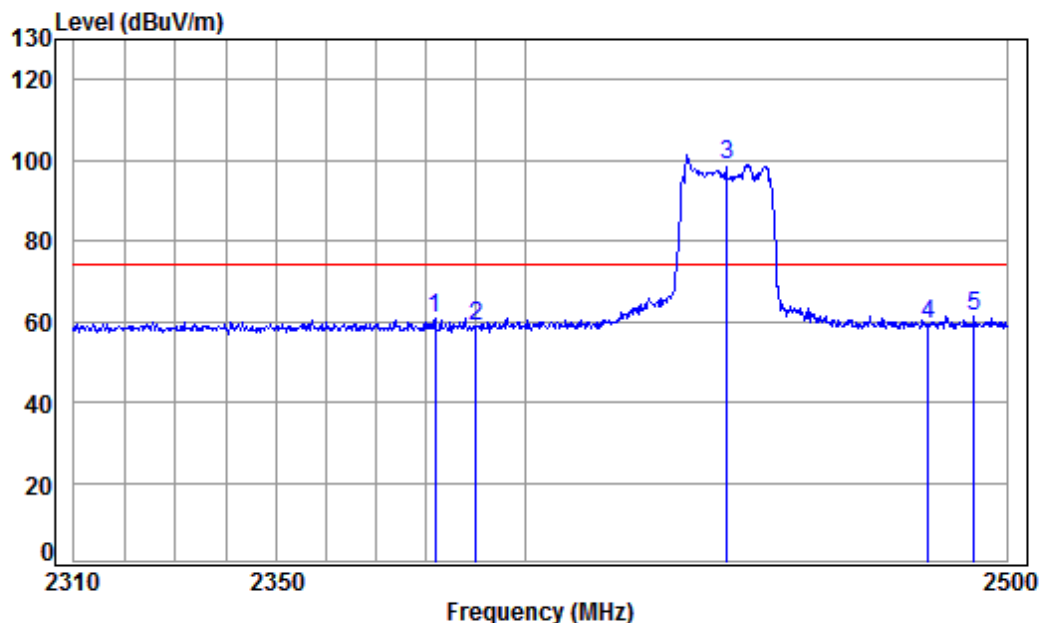
Job No : 04177CR

Mode : 2434.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1    | 2386.281 | 3.33  | 28.51  | 0.00   | 17.99 | 49.83  | 54.00  | -4.17 Average |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 17.84 | 49.69  | 54.00  | -4.31 Average |
| 3 pp | 2434.500 | 3.37  | 28.59  | 0.00   | 67.21 | 99.17  | 54.00  | 45.17 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2441.5MHz; Value:Peak



Condition: 3m HORIZONTAL

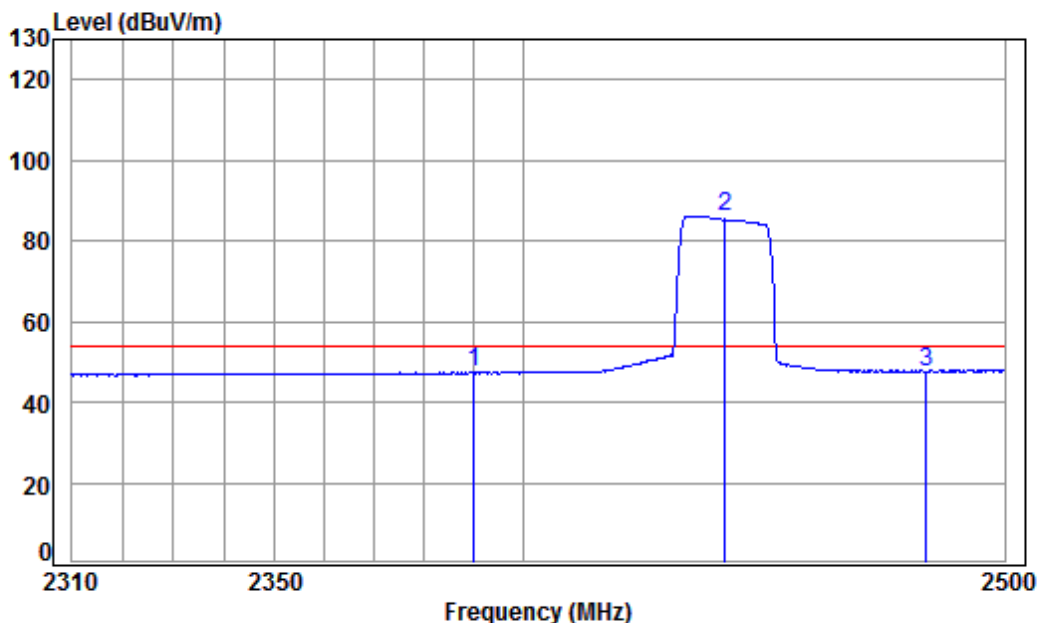
Job No : 04177CR

Mode : 2441.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 2381.754 | 3.32  | 28.50  | 0.00   | 28.77 | 60.59  | 74.00  | -13.41 Peak |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 27.00 | 58.85  | 74.00  | -15.15 Peak |
| 3 pp | 2441.500 | 3.38  | 28.61  | 0.00   | 66.75 | 98.74  | 74.00  | 24.74 Peak  |
| 4    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.41 | 59.49  | 74.00  | -14.51 Peak |
| 5    | 2493.093 | 3.41  | 28.69  | 0.00   | 29.05 | 61.15  | 74.00  | -12.85 Peak |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2441.5MHz; Value:Average



Condition: 3m HORIZONTAL

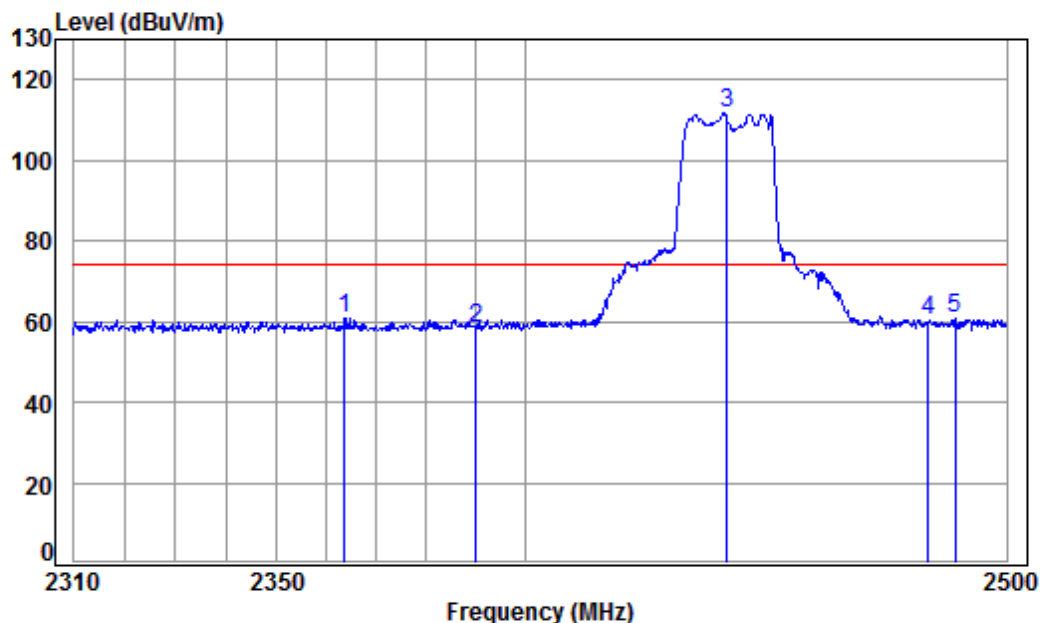
Job No : 04177CR

Mode : 2441.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark        |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | 2390.000    | 3.33  | 28.52  | 0.00   | 15.42 | 47.27  | 54.00  | -6.73 Average |
| 2 | pp 2441.500 | 3.37  | 28.59  | 0.00   | 54.28 | 86.24  | 54.00  | 32.24 Average |
| 3 | 2483.500    | 3.41  | 28.67  | 0.00   | 15.58 | 47.66  | 54.00  | -6.34 Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2441.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

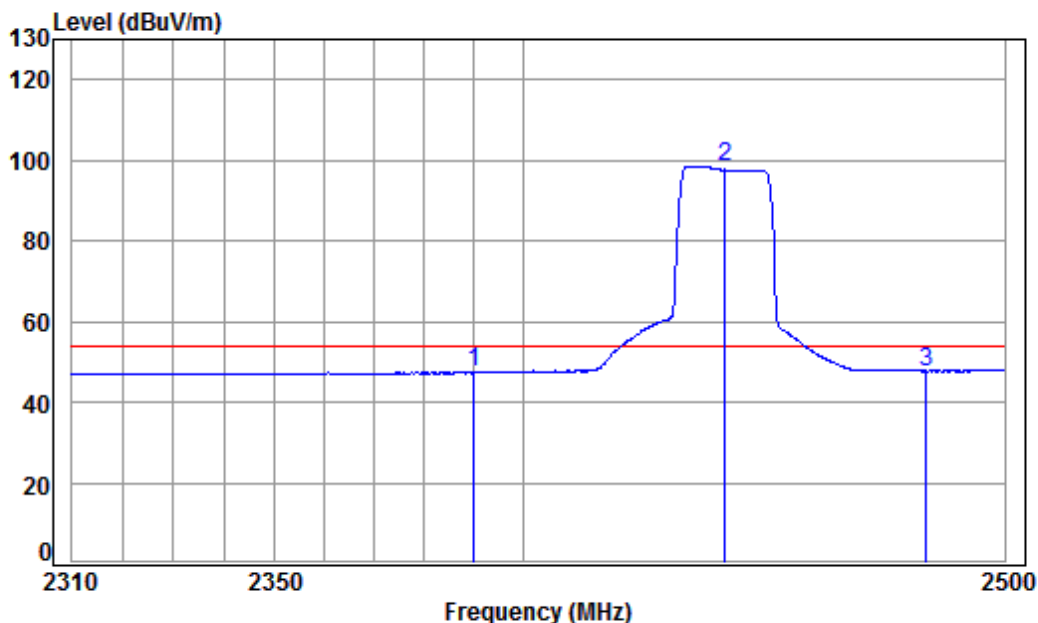
Mode : 2441.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2363.563 | 3.31  | 28.47  | 0.00   | 28.98 | 60.76  | 74.00  | -13.24 | Peak   |
| 2    | 2390.000 | 3.33  | 28.52  | 0.00   | 26.27 | 58.12  | 74.00  | -15.88 | Peak   |
| 3 pp | 2441.500 | 3.37  | 28.60  | 0.00   | 79.63 | 111.60 | 74.00  | 37.60  | Peak   |
| 4    | 2483.500 | 3.42  | 28.70  | 0.00   | 28.18 | 60.30  | 74.00  | -13.70 | Peak   |
| 5    | 2489.155 | 3.41  | 28.68  | 0.00   | 28.56 | 60.65  | 74.00  | -13.35 | Peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2441.5MHz; Value:Average



Condition: 3m VERTICAL

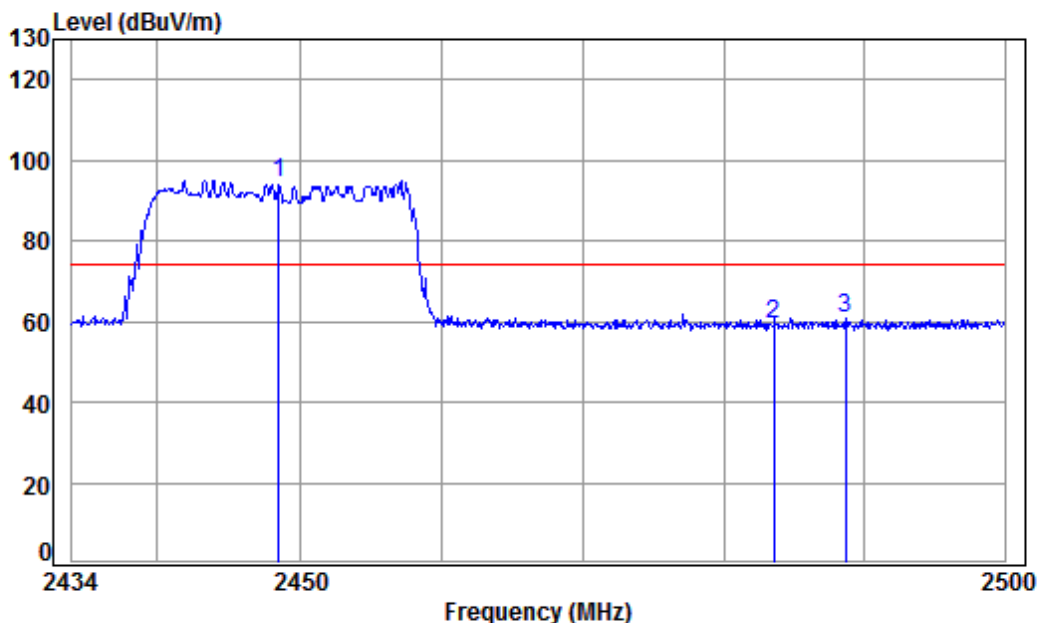
Job No : 04177CR

Mode : 2441.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | 2390.000    | 3.33  | 28.52  | 0.00   | 15.37 | 47.22  | 54.00  | -6.78 Average |
| 2 | pp 2441.500 | 3.37  | 28.60  | 0.00   | 66.38 | 98.35  | 54.00  | 44.35 Average |
| 3 | 2483.500    | 3.41  | 28.67  | 0.00   | 15.61 | 47.69  | 54.00  | -6.31 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2448.5MHz; Value:Peak



Condition: 3m HORIZONTAL

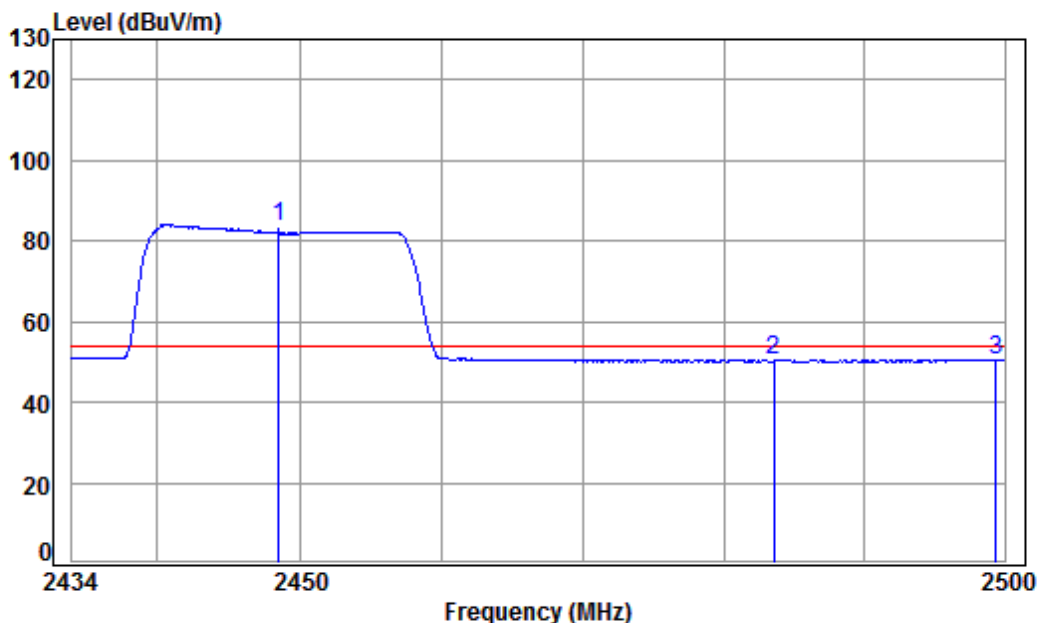
Job No : 04177CR

Mode : 2448.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2448.500 | 3.38  | 28.62  | 0.00   | 62.64 | 94.64  | 74.00  | 20.64 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.17 | 59.25  | 74.00  | -14.75 peak  |
| 3    | 2488.588 | 3.41  | 28.68  | 0.00   | 28.75 | 60.84  | 74.00  | -13.16 peak  |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2448.5MHz; Value:Average



Condition: 3m HORIZONTAL

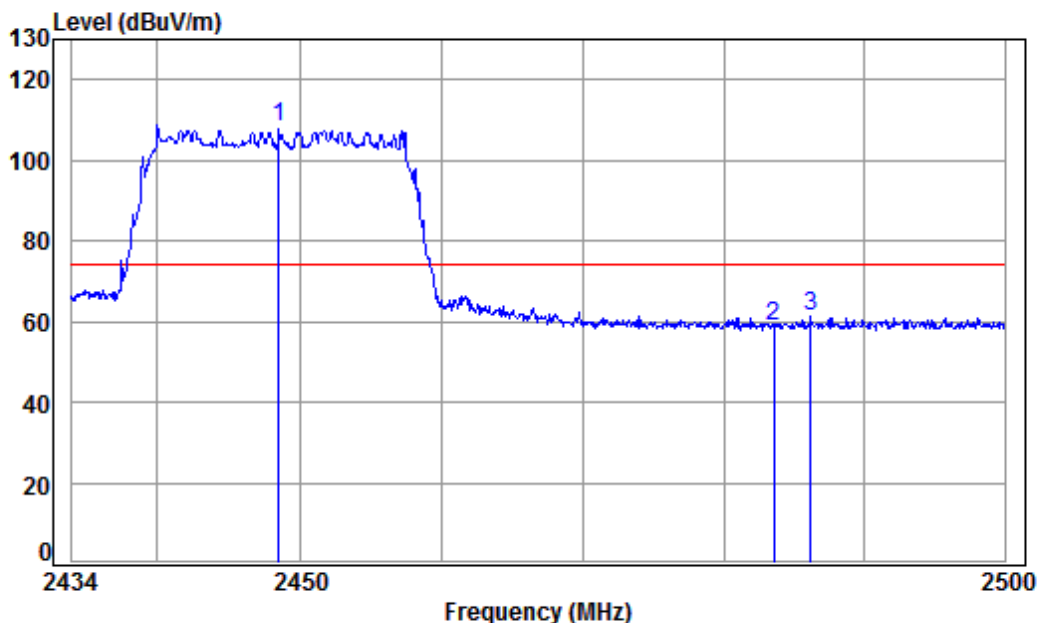
Job No : 04177CR

Mode : 2448.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2448.500 | 3.38  | 28.62  | 0.00   | 51.40 | 83.40  | 54.00  | 29.40 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.11 | 50.19  | 54.00  | -3.81 Average |
| 3 | 2499.398    | 3.42  | 28.70  | 0.00   | 18.28 | 50.40  | 54.00  | -3.60 Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2448.5MHz; Value:Peak



Condition: 3m VERTICAL

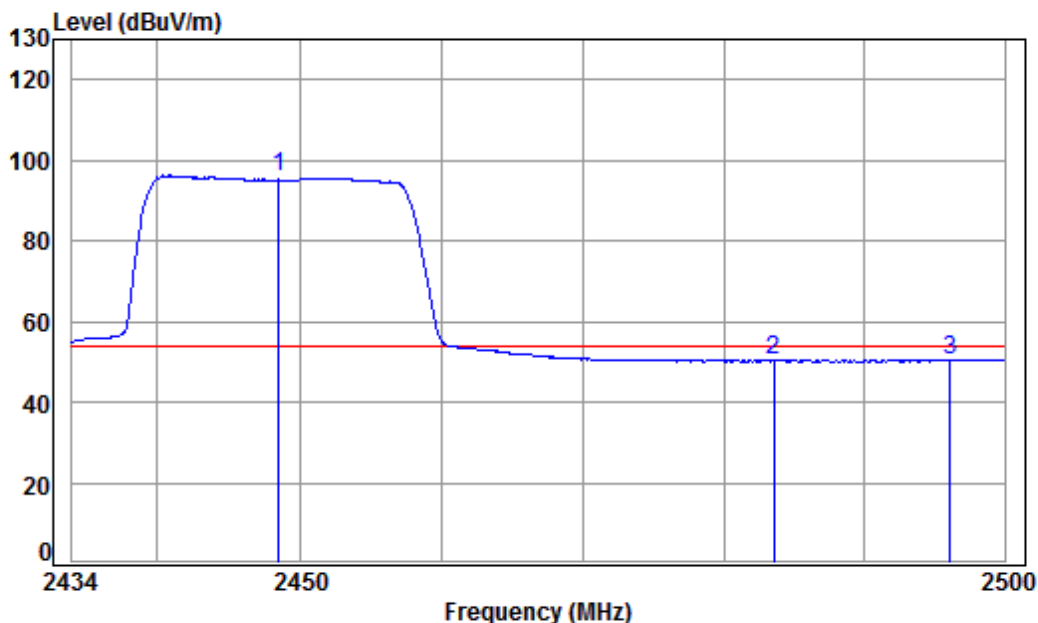
Job No : 04177CR

Mode : 2448.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|---|-------------|-------|--------|--------|-------|--------|--------|-------------|
|   | Freq        | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 | pp 2448.500 | 3.38  | 28.62  | 0.00   | 76.36 | 108.36 | 74.00  | 34.36 peak  |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 26.86 | 58.94  | 74.00  | -15.06 peak |
| 3 | 2486.126    | 3.41  | 28.68  | 0.00   | 29.27 | 61.36  | 74.00  | -12.64 peak |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2448.5MHz; Value:Average



Condition: 3m VERTICAL

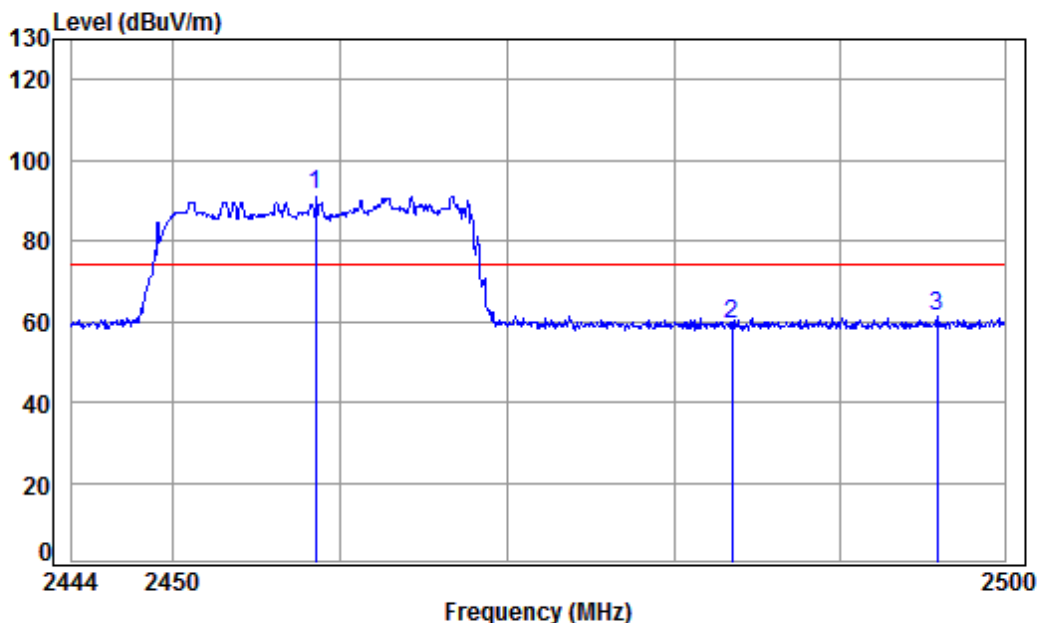
Job No : 04177CR

Mode : 2448.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2448.500 | 3.38  | 28.62  | 0.00   | 63.74 | 95.74  | 54.00  | 41.74 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.18 | 50.26  | 54.00  | -3.74 Average |
| 3 | 2496.057    | 3.42  | 28.69  | 0.00   | 18.30 | 50.41  | 54.00  | -3.59 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2458.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

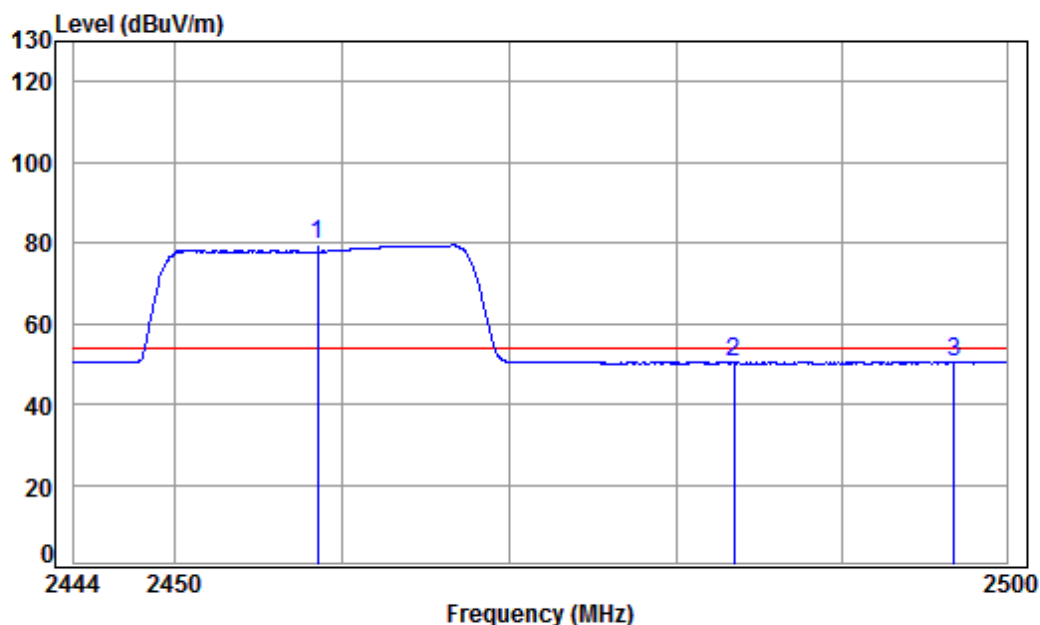
Mode : 2458.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2458.500 | 3.39  | 28.63  | 0.00   | 59.52 | 91.54  | 74.00  | 17.54 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.13 | 59.21  | 74.00  | -14.79 peak  |
| 3    | 2495.926 | 3.42  | 28.69  | 0.00   | 29.14 | 61.25  | 74.00  | -12.75 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2458.5MHz; Value:Average



Condition: 3m HORIZONTAL

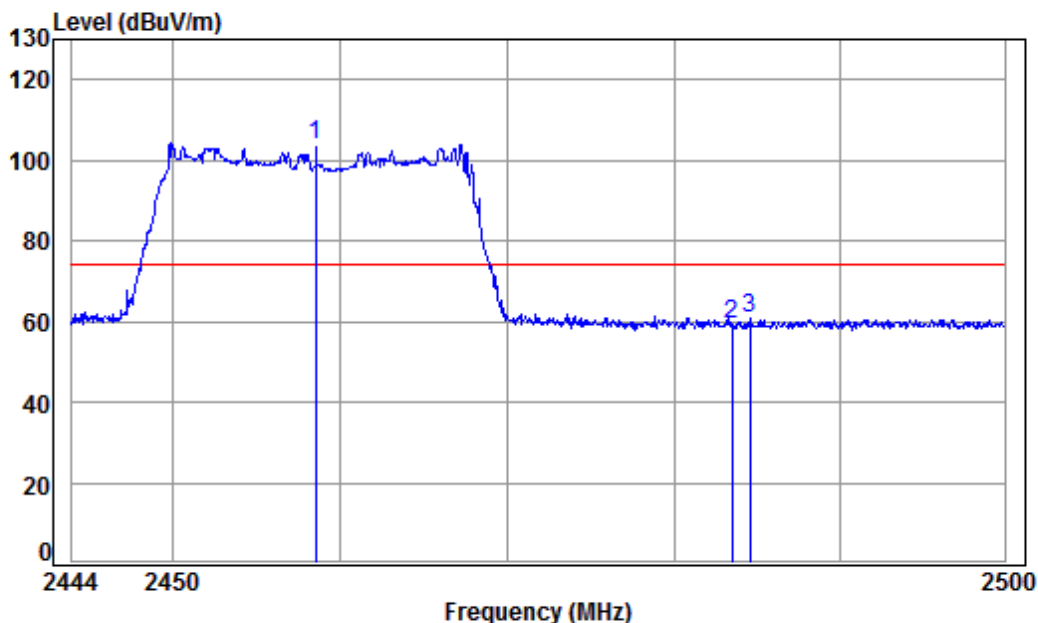
Job No : 04177CR

Mode : 2458.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2458.500 | 3.39  | 28.63  | 0.00   | 47.52 | 79.54  | 54.00  | 25.54 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.11 | 50.19  | 54.00  | -3.81 Average |
| 3    | 2496.830 | 3.42  | 28.69  | 0.00   | 18.29 | 50.40  | 54.00  | -3.60 Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2458.5MHz; Value:Peak



Condition: 3m VERTICAL

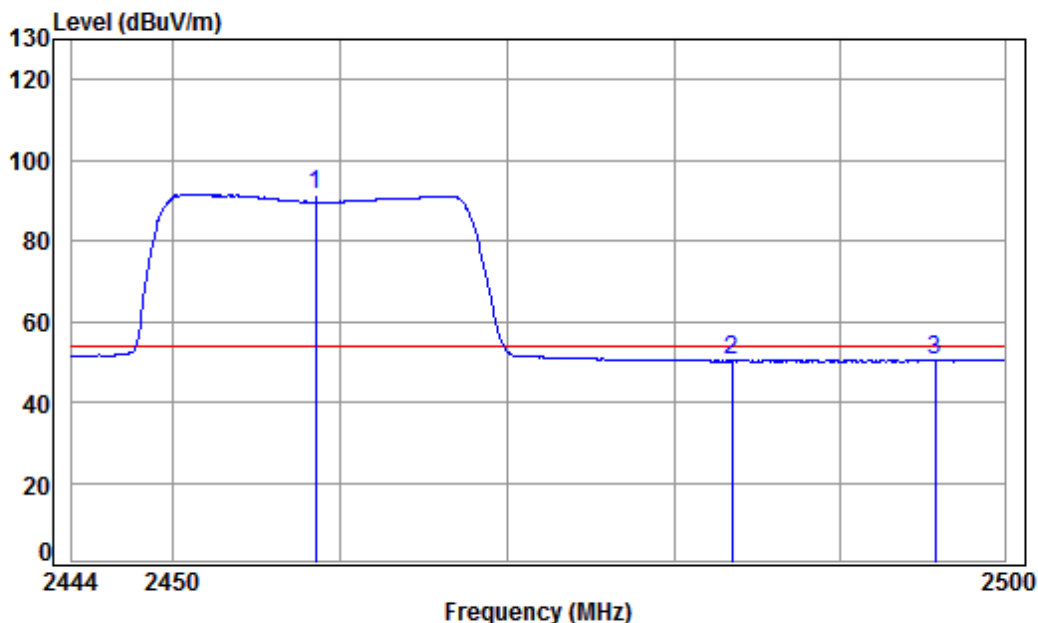
Job No : 04177CR

Mode : 2458.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|---|-------------|-------|--------|--------|-------|--------|--------|--------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 | pp 2458.500 | 3.39  | 28.63  | 0.00   | 71.68 | 103.70 | 74.00  | 29.70 peak   |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 27.15 | 59.23  | 74.00  | -14.77 peak  |
| 3 | 2484.586    | 3.41  | 28.68  | 0.00   | 28.66 | 60.75  | 74.00  | -13.25 peak  |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2458.5MHz; Value:Average



Condition: 3m VERTICAL

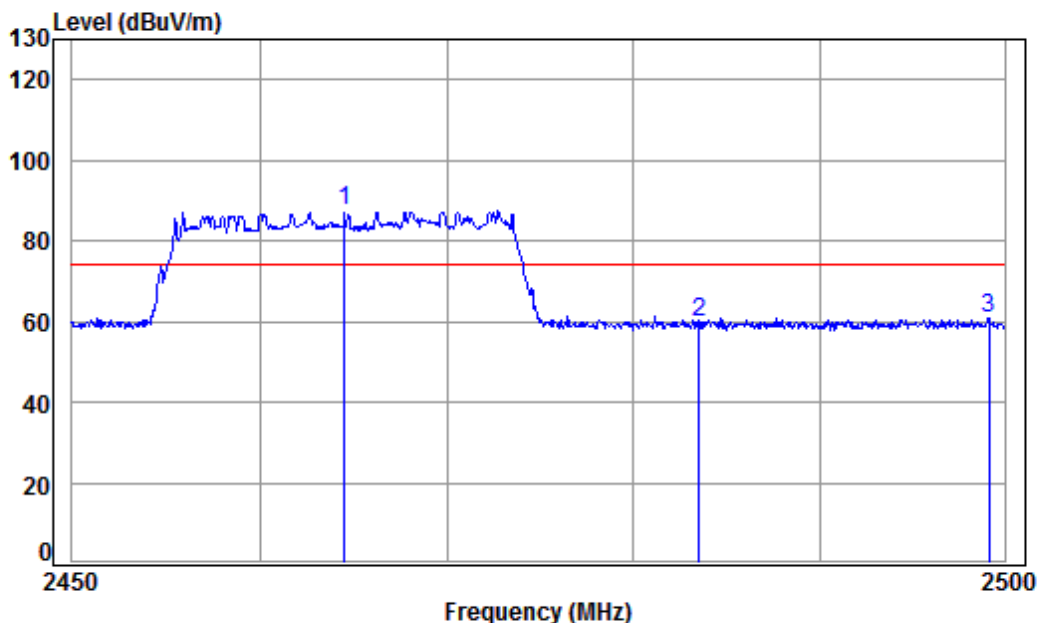
Job No : 04177CR

Mode : 2458.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2458.500 | 3.39  | 28.63  | 0.00   | 59.18 | 91.20  | 54.00  | 37.20 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.17 | 50.25  | 54.00  | -3.75 Average |
| 3    | 2495.813 | 3.42  | 28.69  | 0.00   | 18.33 | 50.44  | 54.00  | -3.56 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2464.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

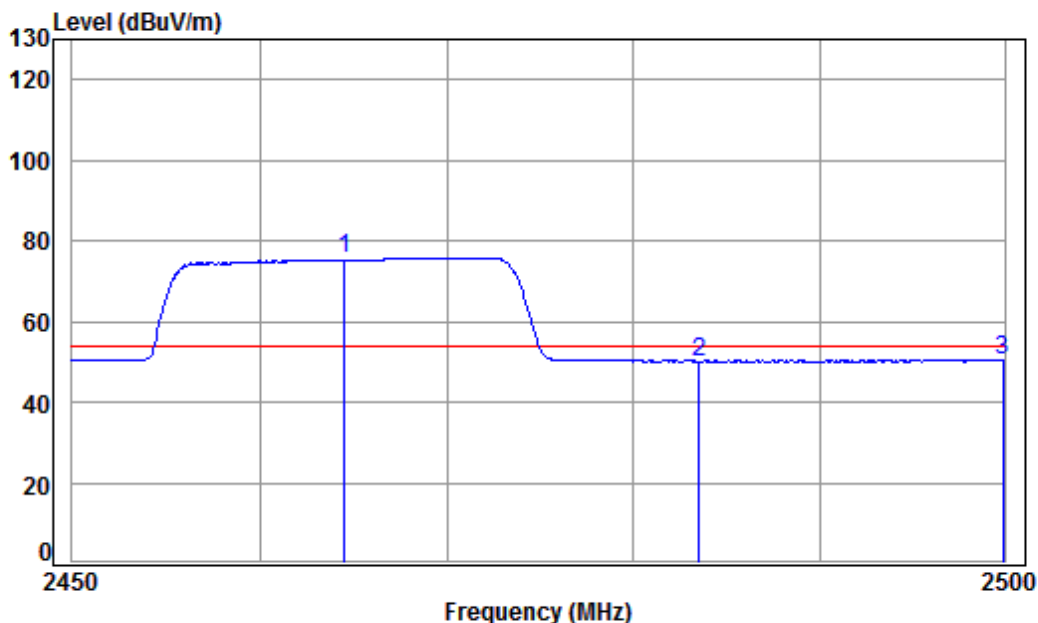
Mode : 2464.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2464.500 | 3.39  | 28.64  | 0.00   | 55.29 | 87.32  | 74.00  | 13.32 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.76 | 59.84  | 74.00  | -14.16 peak  |
| 3    | 2499.142 | 3.42  | 28.70  | 0.00   | 28.81 | 60.93  | 74.00  | -13.07 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2464.5MHz; Value:Average



Condition: 3m HORIZONTAL

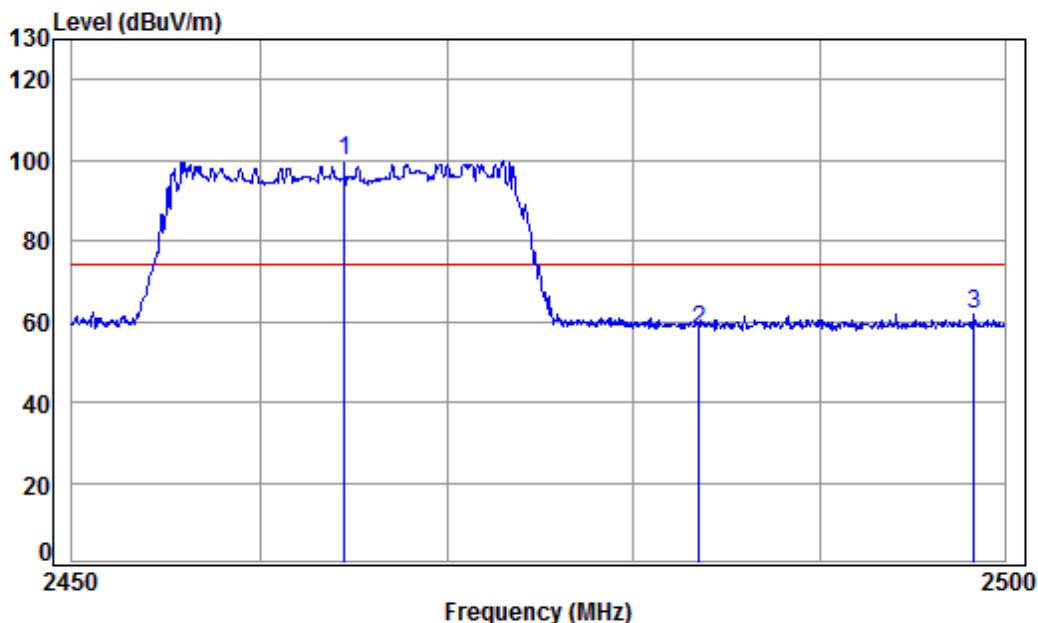
Job No : 04177CR

Mode : 2464.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2464.500 | 3.39  | 28.64  | 0.00   | 43.66 | 75.69  | 54.00  | 21.69 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.06 | 50.14  | 54.00  | -3.86 Average |
| 3    | 2499.899 | 3.42  | 28.70  | 0.00   | 18.24 | 50.36  | 54.00  | -3.64 Average |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2464.5MHz; Value:Peak



Condition: 3m VERTICAL

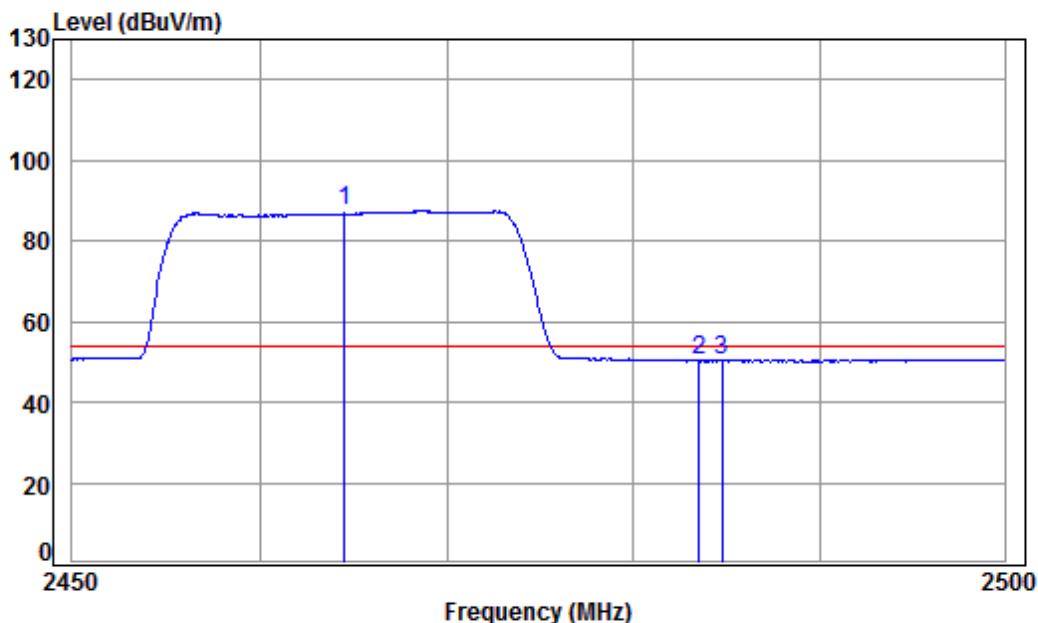
Job No : 04177CR

Mode : 2464.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |             |
|------|----------|-------|--------|--------|-------|--------|--------|-------------|
|      | Freq     | Loss  | Factor | Factor | Level | Line   | Limit  | Remark      |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB          |
| 1 pp | 2464.500 | 3.39  | 28.64  | 0.00   | 67.70 | 99.73  | 74.00  | 25.73 peak  |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 25.92 | 58.00  | 74.00  | -16.00 peak |
| 3    | 2498.334 | 3.42  | 28.70  | 0.00   | 29.64 | 61.76  | 74.00  | -12.24 peak |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2464.5MHz; Value:Average



Condition: 3m VERTICAL

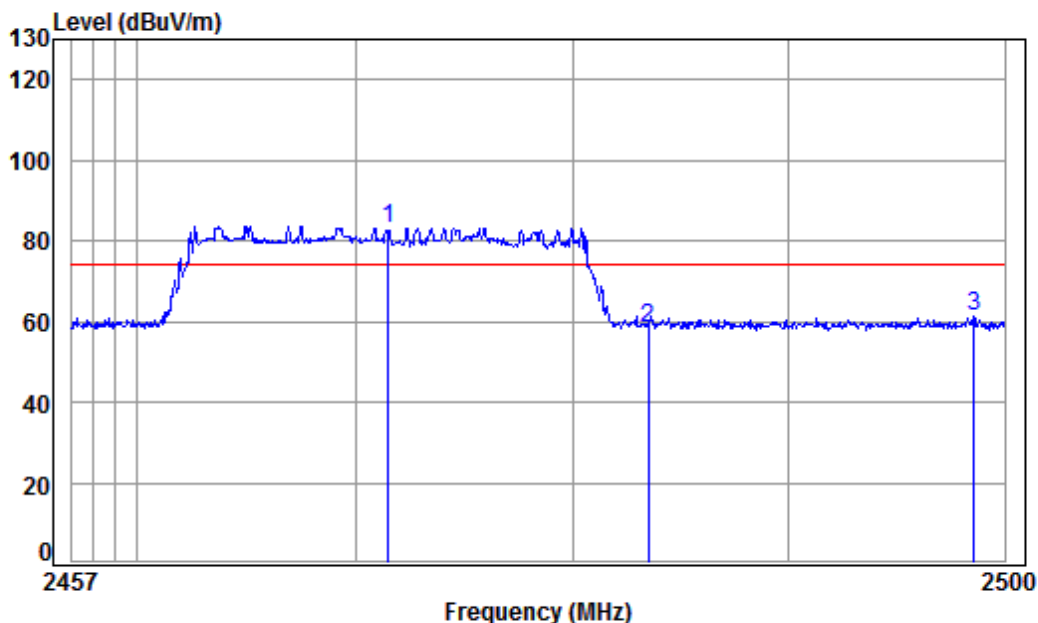
Job No : 04177CR

Mode : 2464.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2464.500 | 3.39  | 28.64  | 0.00   | 55.34 | 87.37  | 54.00  | 33.37 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.09 | 50.17  | 54.00  | -3.83 Average |
| 3    | 2484.743 | 3.41  | 28.68  | 0.00   | 18.34 | 50.43  | 54.00  | -3.57 Average |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2471.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

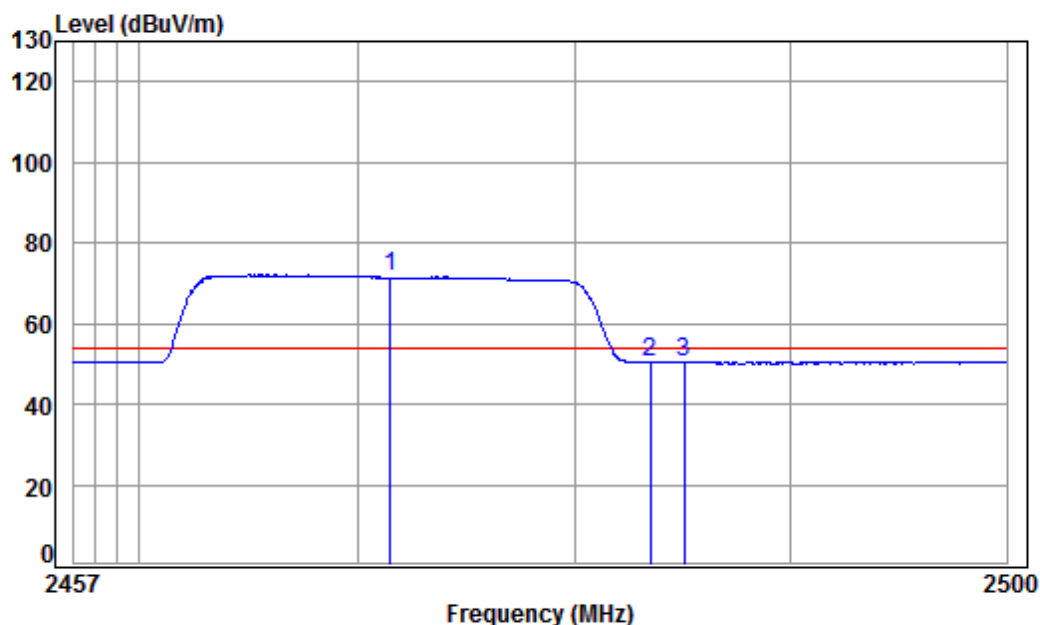
Mode : 2471.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 51.12 | 83.17  | 74.00  | 9.17 peak    |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.22 | 58.30  | 74.00  | -15.70 peak  |
| 3    | 2498.569 | 3.42  | 28.70  | 0.00   | 29.33 | 61.45  | 74.00  | -12.55 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2471.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

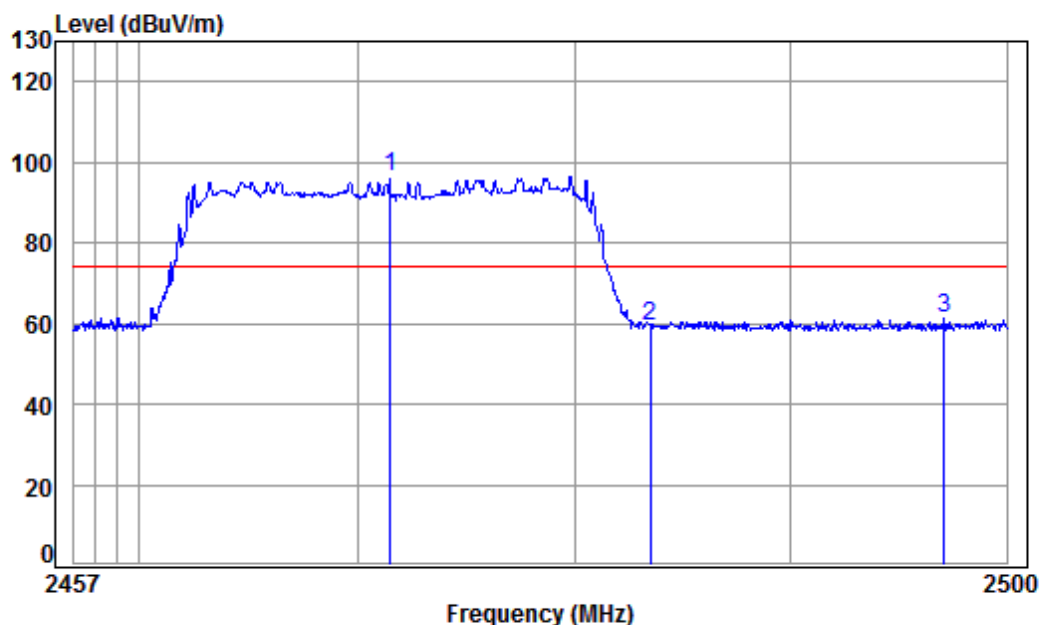
Mode : 2471.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 39.64 | 71.69  | 54.00  | 17.69 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.30 | 50.38  | 54.00  | -3.62 Average |
| 3    | 2485.038 | 3.41  | 28.68  | 0.00   | 18.37 | 50.46  | 54.00  | -3.54 Average |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2471.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

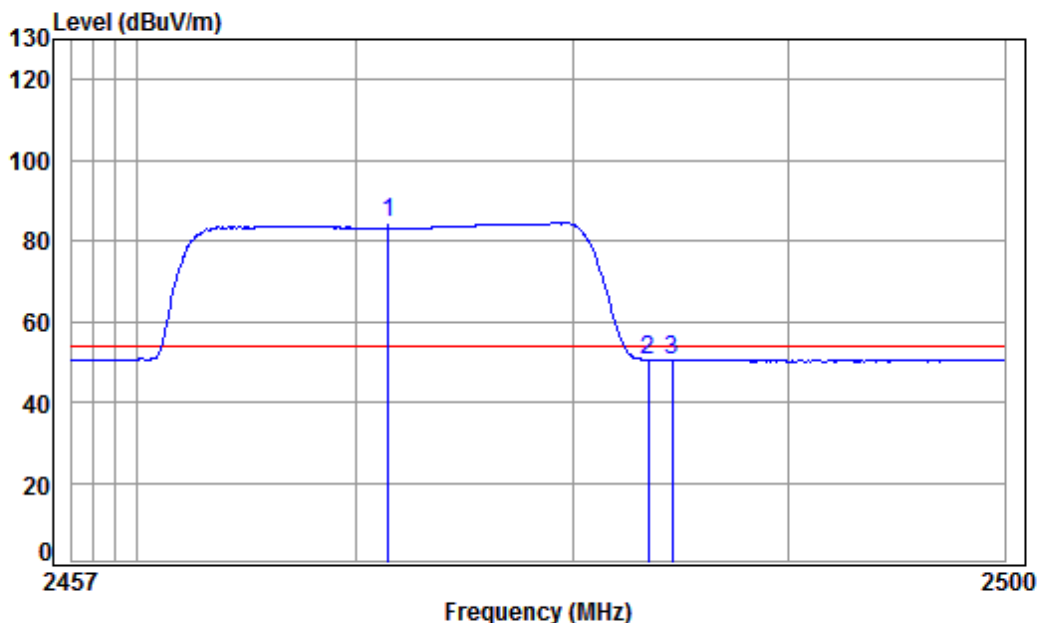
Mode : 2471.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 64.22 | 96.27  | 74.00  | 22.27 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.26 | 59.34  | 74.00  | -14.66 peak  |
| 3    | 2497.096 | 3.42  | 28.70  | 0.00   | 29.26 | 61.38  | 74.00  | -12.62 peak  |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2471.5MHz; Value:Average



Condition: 3m VERTICAL

Job No : 04177CR

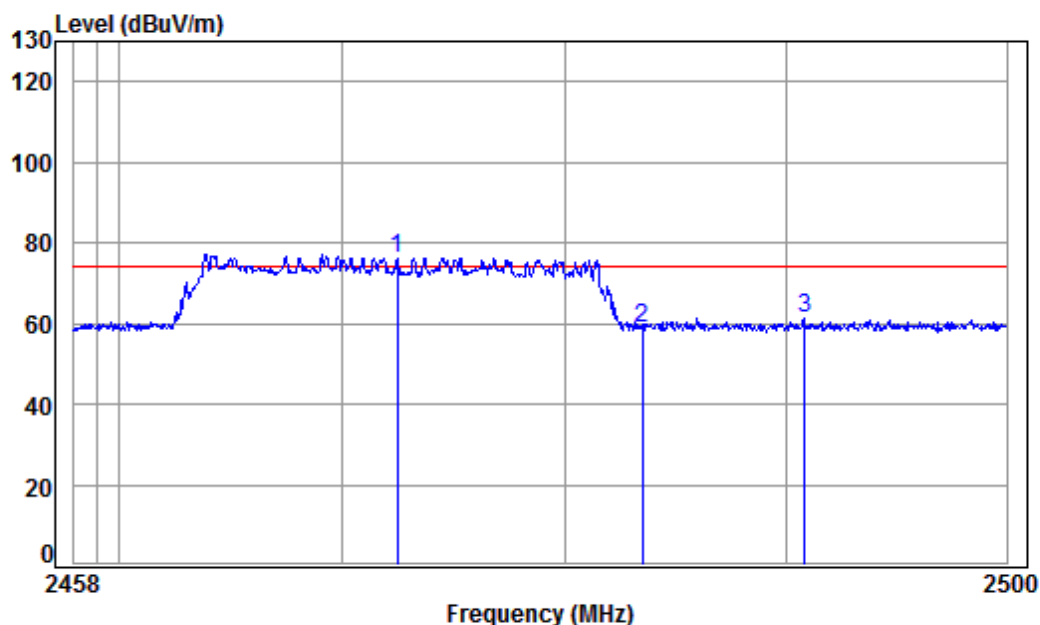
Mode : 2471.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|------|----------|-------|--------|--------|-------|--------|--------|---------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 pp | 2471.500 | 3.40  | 28.65  | 0.00   | 52.47 | 84.52  | 54.00  | 30.52 Average |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 18.46 | 50.54  | 54.00  | -3.46 Average |
| 3    | 2484.606 | 3.41  | 28.68  | 0.00   | 18.51 | 50.60  | 54.00  | -3.40 Average |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2472.5MHz; Value:Peak



Condition: 3m HORIZONTAL

Job No : 04177CR

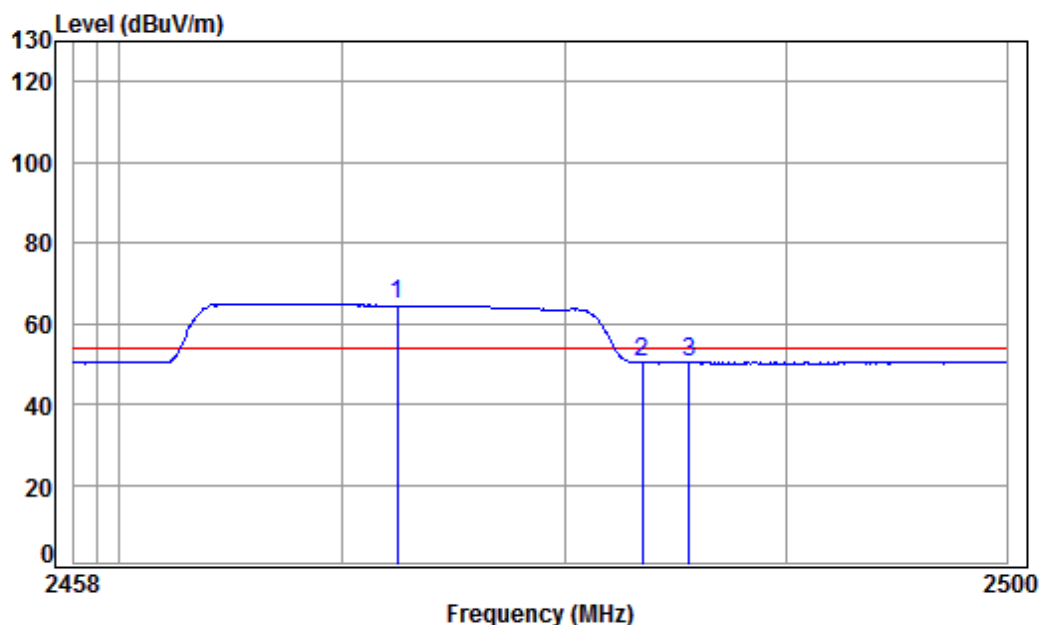
Mode : 2472.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2472.500 | 3.40  | 28.66  | 0.00   | 44.13 | 76.19  | 74.00  | 2.19 peak    |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 26.62 | 58.70  | 74.00  | -15.30 peak  |
| 3    | 2490.825 | 3.41  | 28.69  | 0.00   | 29.24 | 61.34  | 74.00  | -12.66 peak  |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2472.5MHz; Value:Average



Condition: 3m HORIZONTAL

Job No : 04177CR

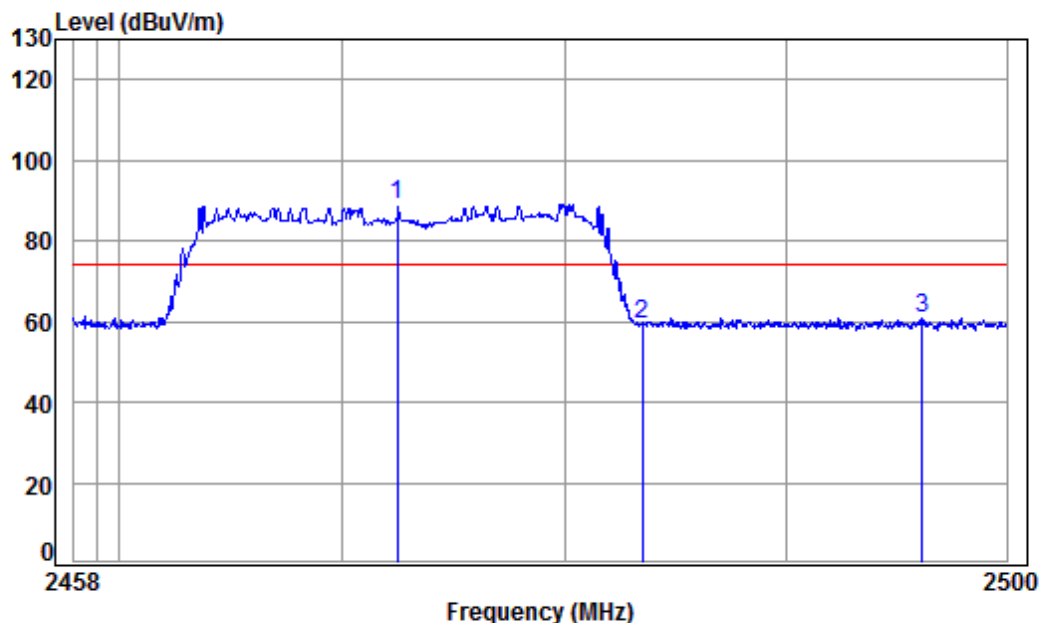
Mode : 2472.5 Band edge

Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2472.500 | 3.40  | 28.66  | 0.00   | 32.70 | 64.76  | 54.00  | 10.76 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.26 | 50.34  | 54.00  | -3.66 Average |
| 3 | 2485.640    | 3.41  | 28.68  | 0.00   | 18.37 | 50.46  | 54.00  | -3.54 Average |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2472.5MHz; Value:Peak



Condition: 3m VERTICAL

Job No : 04177CR

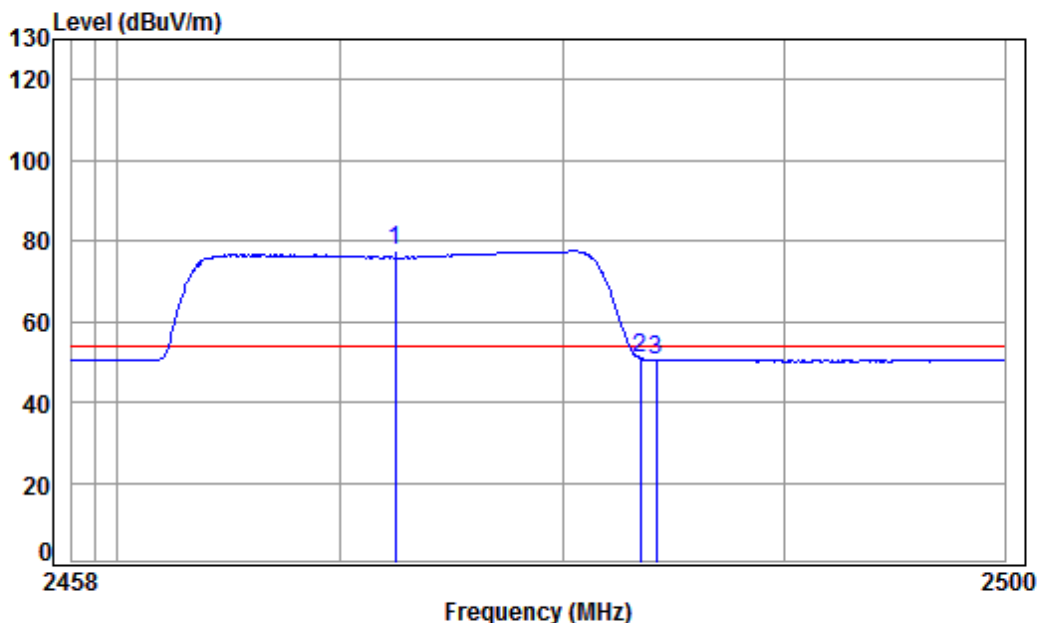
Mode : 2472.5 Band edge

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  | Limit  | Over   |              |
|------|----------|-------|--------|--------|-------|--------|--------|--------------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB           |
| 1 pp | 2472.500 | 3.40  | 28.66  | 0.00   | 56.93 | 88.99  | 74.00  | 14.99 peak   |
| 2    | 2483.500 | 3.41  | 28.67  | 0.00   | 27.46 | 59.54  | 74.00  | -14.46 peak  |
| 3    | 2496.191 | 3.42  | 28.69  | 0.00   | 28.87 | 60.98  | 74.00  | -13.02 peak  |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2472.5MHz; Value:Average



Condition: 3m VERTICAL  
Job No : 04177CR  
Mode : 2472.5 Band edge  
Note : 20M ANT0

|   |             | Cable | Ant    | Preamp | Read  | Limit  | Over   |               |
|---|-------------|-------|--------|--------|-------|--------|--------|---------------|
|   | Freq        | Loss  | Factor | Factor | Level | Level  | Line   | Limit Remark  |
|   | MHz         | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB            |
| 1 | pp 2472.500 | 3.40  | 28.66  | 0.00   | 45.36 | 77.42  | 54.00  | 23.42 Average |
| 2 | 2483.500    | 3.41  | 28.67  | 0.00   | 18.80 | 50.88  | 54.00  | -3.12 Average |
| 3 | 2484.251    | 3.41  | 28.67  | 0.00   | 18.37 | 50.45  | 54.00  | -3.55 Average |



## 7.9 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209; RSS-247 Section 3.3 & RSS-Gen Section 8.9

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490    | 2400/F(kHz)                      | 300                          |
| 0.490-1.705    | 24000/F(kHz)                     | 30                           |
| 1.705-30.0     | 30                               | 30                           |
| 30-88          | 100                              | 3                            |
| 88-216         | 150                              | 3                            |
| 216-960        | 200                              | 3                            |
| Above 960      | 500                              | 3                            |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C Humidity: 57.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

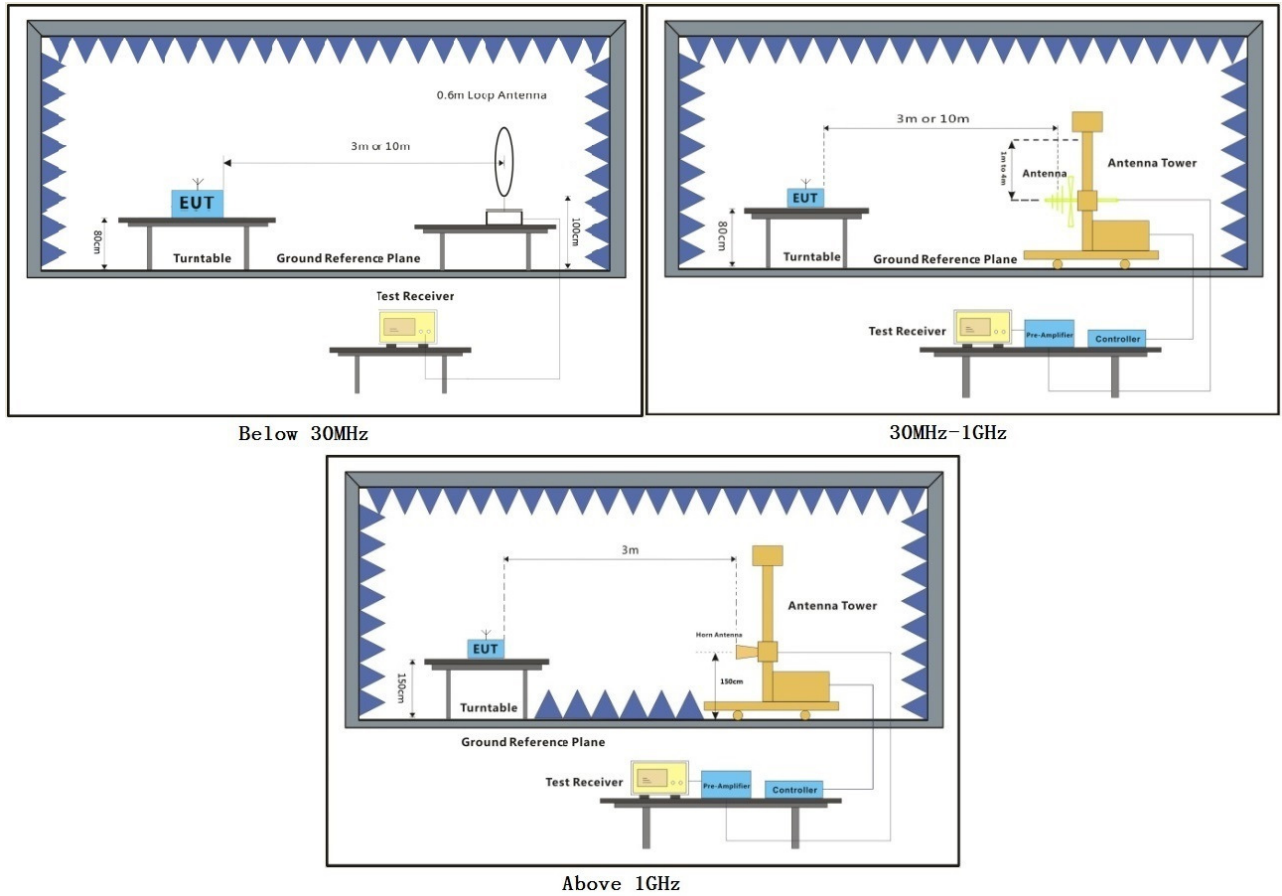
a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

b:Charge + TX mode\_Keep the EUT in charging and continuously transmitting mode with modulation.

The worst case for final test:

a:TX mode\_Keep the EUT in continuously transmitting mode with modulation

### 7.9.2 Test Setup Diagram



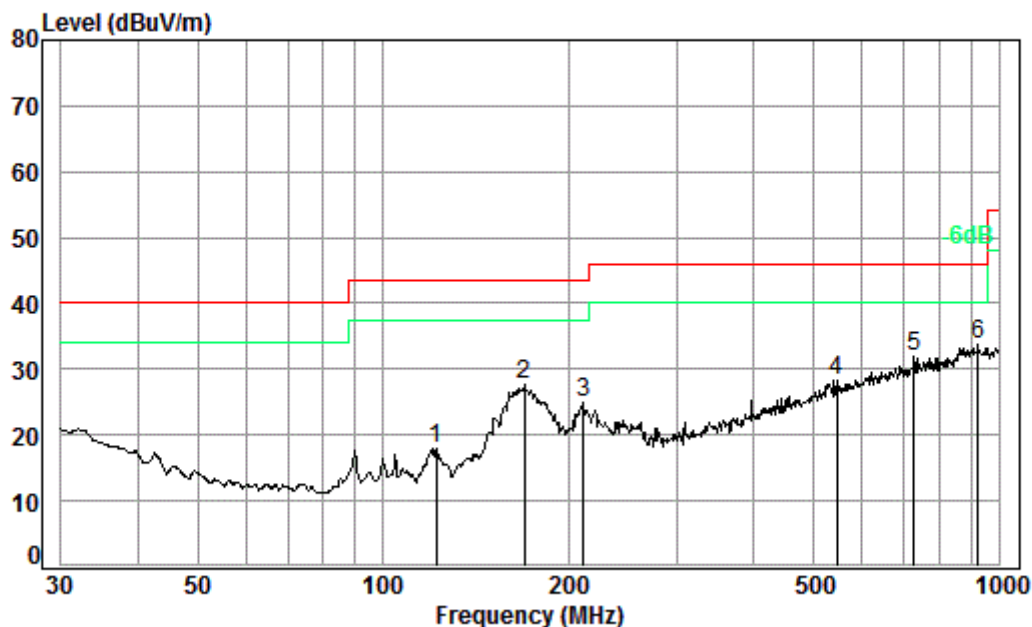
### 7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel @1.4MHz BW mode. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:2403.5MHz;



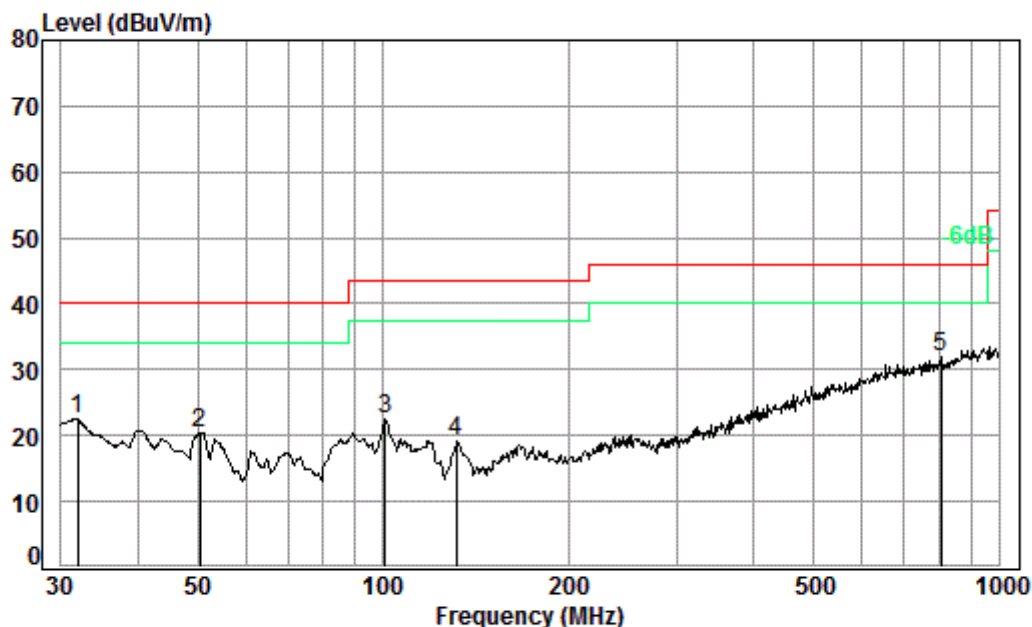
Condition: 3m HORIZONTAL

Job No. : 04177CR

Test mode: b

|      | Freq   | Cable | Ant    | Preamp | Read  | Limit  | Over   |
|------|--------|-------|--------|--------|-------|--------|--------|
|      | MHz    | Loss  | Factor | Factor | Level | Line   | Limit  |
|      | MHz    | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m |
| 1    | 121.98 | 1.26  | 13.16  | 27.52  | 31.04 | 17.94  | 43.50  |
| 2    | 169.60 | 1.35  | 15.70  | 27.52  | 38.04 | 27.57  | 43.50  |
| 3    | 211.53 | 1.47  | 16.91  | 27.53  | 34.11 | 24.96  | 43.50  |
| 4    | 545.18 | 2.65  | 25.55  | 27.80  | 27.96 | 28.36  | 46.00  |
| 5    | 729.36 | 2.99  | 28.08  | 27.51  | 28.25 | 31.81  | 46.00  |
| 6 pp | 925.76 | 3.63  | 29.93  | 26.99  | 27.16 | 33.73  | 46.00  |

Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:2403.5MHz;



Condition: 3m VERTICAL

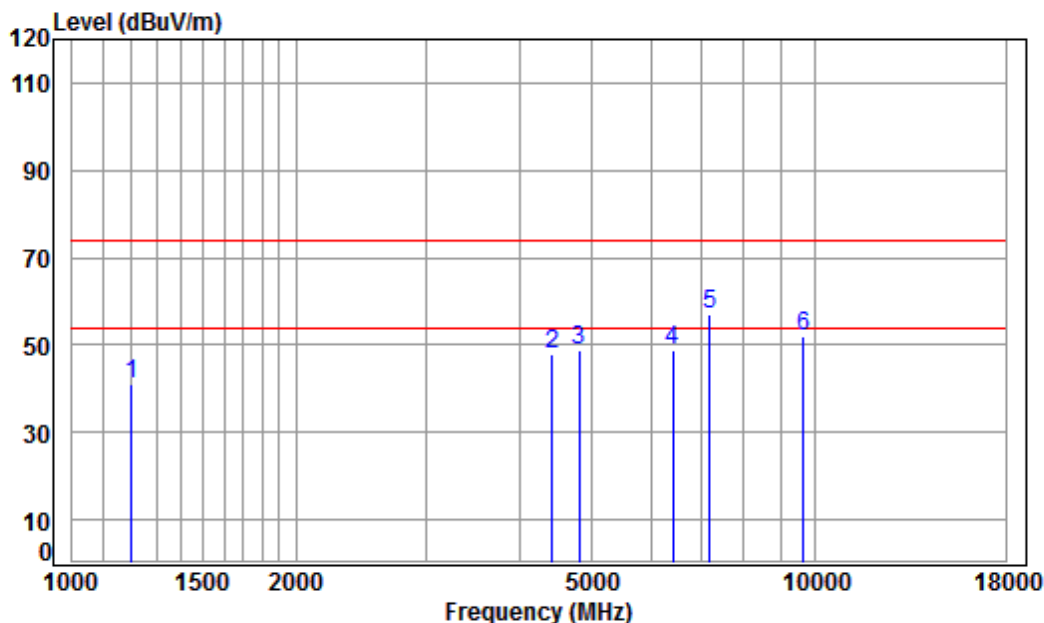
Job No. : 04177CR

Test mode: b

|      | Freq   | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   |
|------|--------|------------|------------|---------------|------------|--------|--------|--------|
|      | MHz    | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |
| 1    | 31.95  | 0.60       | 21.40      | 27.66         | 28.20      | 22.54  | 40.00  | -17.46 |
| 2    | 50.41  | 0.80       | 14.16      | 27.60         | 33.04      | 20.40  | 40.00  | -19.60 |
| 3    | 100.93 | 1.20       | 13.95      | 27.51         | 34.76      | 22.40  | 43.50  | -21.10 |
| 4    | 131.76 | 1.28       | 13.46      | 27.52         | 31.98      | 19.20  | 43.50  | -24.30 |
| 5 pp | 804.60 | 3.22       | 28.56      | 27.40         | 27.59      | 31.97  | 46.00  | -14.03 |



Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:2403.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

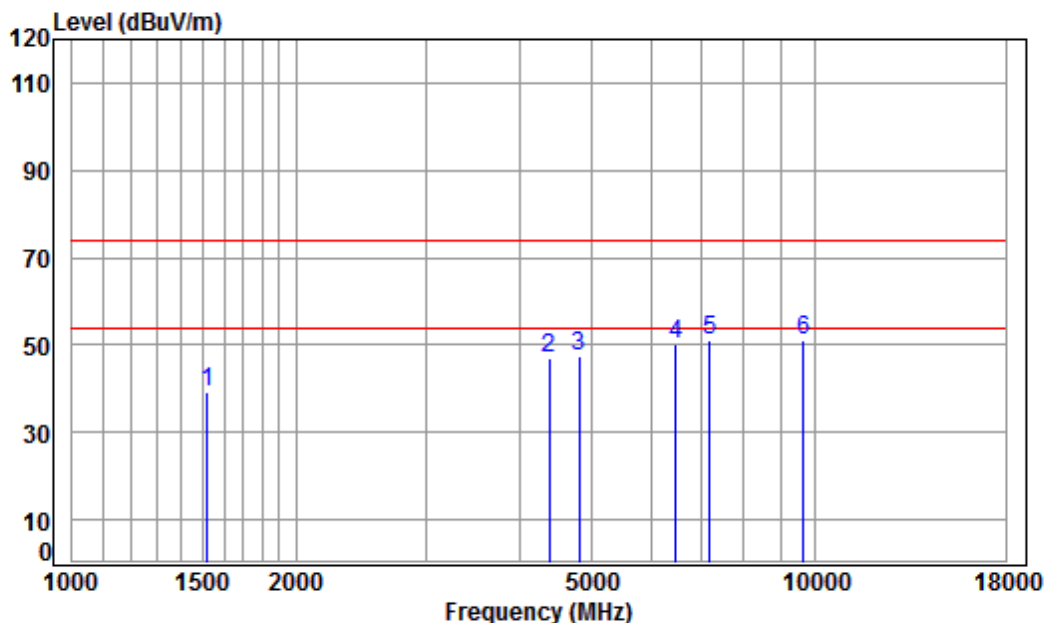
Mode : 2403.5 TX RSE

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1203.199 | 4.43       | 24.60      | 41.19         | 53.02      | 40.86  | 74.00  | -33.14 | peak   |
| 2    | 4417.841 | 7.47       | 33.46      | 42.40         | 49.24      | 47.77  | 74.00  | -26.23 | peak   |
| 3    | 4807.000 | 7.89       | 33.98      | 42.47         | 49.60      | 49.00  | 74.00  | -25.00 | peak   |
| 4    | 6432.732 | 11.41      | 35.54      | 41.27         | 43.37      | 49.05  | 74.00  | -24.95 | peak   |
| 5 pp | 7210.500 | 10.07      | 36.07      | 40.71         | 51.46      | 56.89  | 74.00  | -17.11 | peak   |
| 6    | 9614.000 | 10.75      | 37.67      | 37.73         | 41.29      | 51.98  | 74.00  | -22.02 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:2403.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

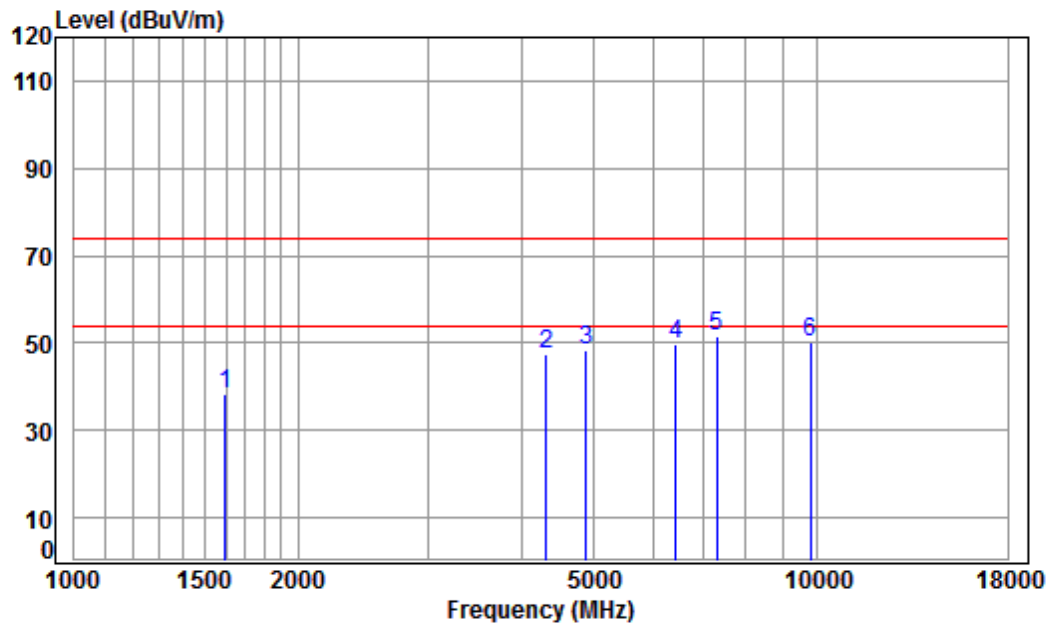
Mode : 2403.5 TX RSE

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1520.598 | 5.45       | 25.89      | 41.42         | 49.36      | 39.28  | 74.00  | -34.72 | peak   |
| 2    | 4379.699 | 7.43       | 33.39      | 42.40         | 48.56      | 46.98  | 74.00  | -27.02 | peak   |
| 3    | 4807.000 | 7.89       | 33.98      | 42.47         | 48.18      | 47.58  | 74.00  | -26.42 | peak   |
| 4    | 6488.754 | 11.52      | 35.59      | 41.22         | 44.07      | 49.96  | 74.00  | -24.04 | peak   |
| 5 pp | 7210.500 | 10.07      | 36.07      | 40.71         | 45.72      | 51.15  | 74.00  | -22.85 | peak   |
| 6    | 9614.000 | 10.75      | 37.67      | 37.73         | 40.32      | 51.01  | 74.00  | -22.99 | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:2441.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

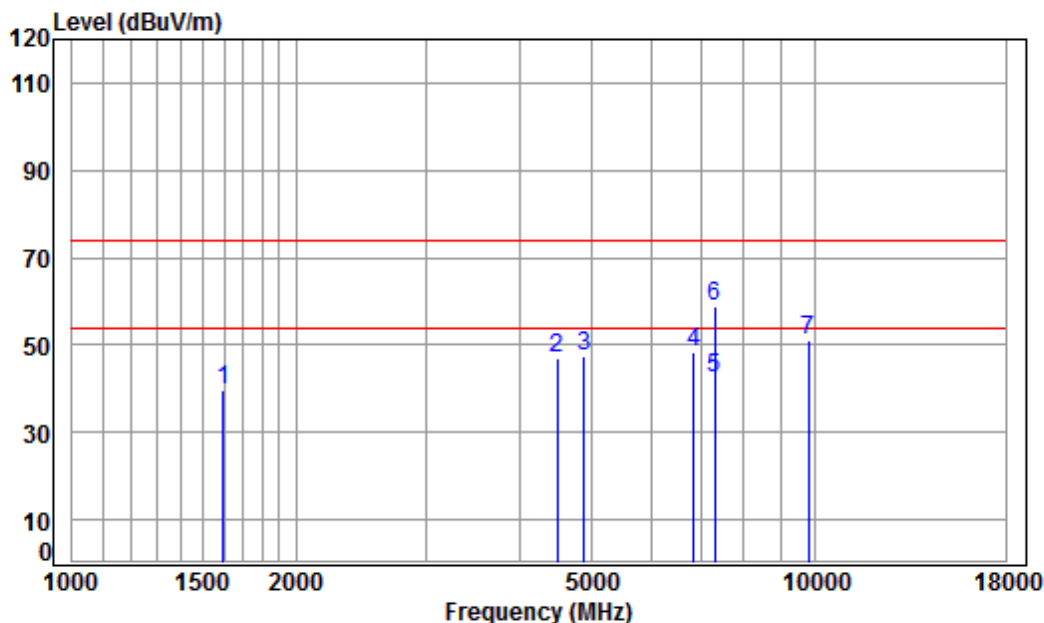
Mode : 2441.5 TX RSE

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1597.181 | 5.35       | 26.24      | 41.47         | 48.07      | 38.19  | 74.00  | -35.81 | peak   |
| 2    | 4316.859 | 7.36       | 33.28      | 42.38         | 48.99      | 47.25  | 74.00  | -26.75 | peak   |
| 3    | 4883.000 | 7.97       | 34.07      | 42.48         | 48.77      | 48.33  | 74.00  | -25.67 | peak   |
| 4    | 6451.353 | 11.45      | 35.55      | 41.25         | 44.06      | 49.81  | 74.00  | -24.19 | peak   |
| 5 pp | 7324.500 | 10.04      | 36.16      | 40.63         | 46.01      | 51.58  | 74.00  | -22.42 | peak   |
| 6    | 9766.000 | 10.82      | 37.76      | 37.52         | 39.13      | 50.19  | 74.00  | -23.81 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:2441.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

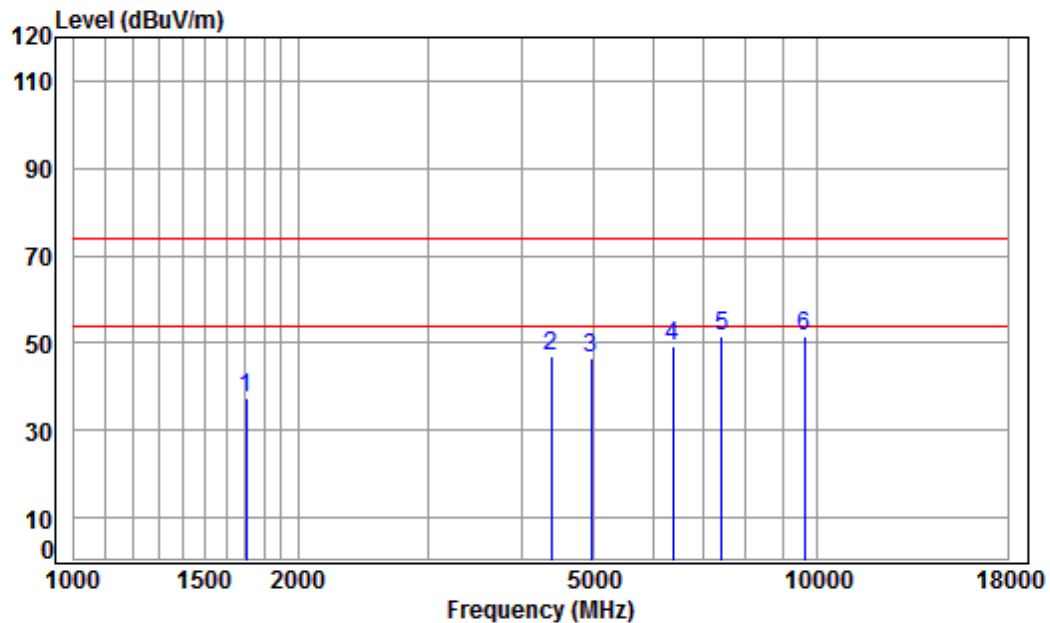
Mode : 2441.5 TX RSE

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit  | Over Limit | Remark  |
|------|----------|------------|------------|---------------------|------------|--------|--------|------------|---------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m | dB         |         |
| 1    | 1597.181 | 5.35       | 26.24      | 41.47               | 49.37      | 39.49  | 74.00  | -34.51     | peak    |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42               | 48.36      | 47.08  | 74.00  | -26.92     | peak    |
| 3    | 4883.000 | 7.97       | 34.07      | 42.48               | 47.81      | 47.37  | 74.00  | -26.63     | peak    |
| 4    | 6855.063 | 10.53      | 35.82      | 40.96               | 42.83      | 48.22  | 74.00  | -25.78     | peak    |
| 5 pp | 7324.500 | 10.04      | 36.16      | 40.63               | 36.69      | 42.26  | 54.00  | -11.74     | Average |
| 6 pk | 7324.500 | 10.04      | 36.16      | 40.63               | 53.40      | 58.97  | 74.00  | -15.03     | peak    |
| 7    | 9766.000 | 10.82      | 37.76      | 37.52               | 39.99      | 51.05  | 74.00  | -22.95     | peak    |



Mode:b; Polarization:Horizontal; Bandwidth:1.4MHz; Channel:2477.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

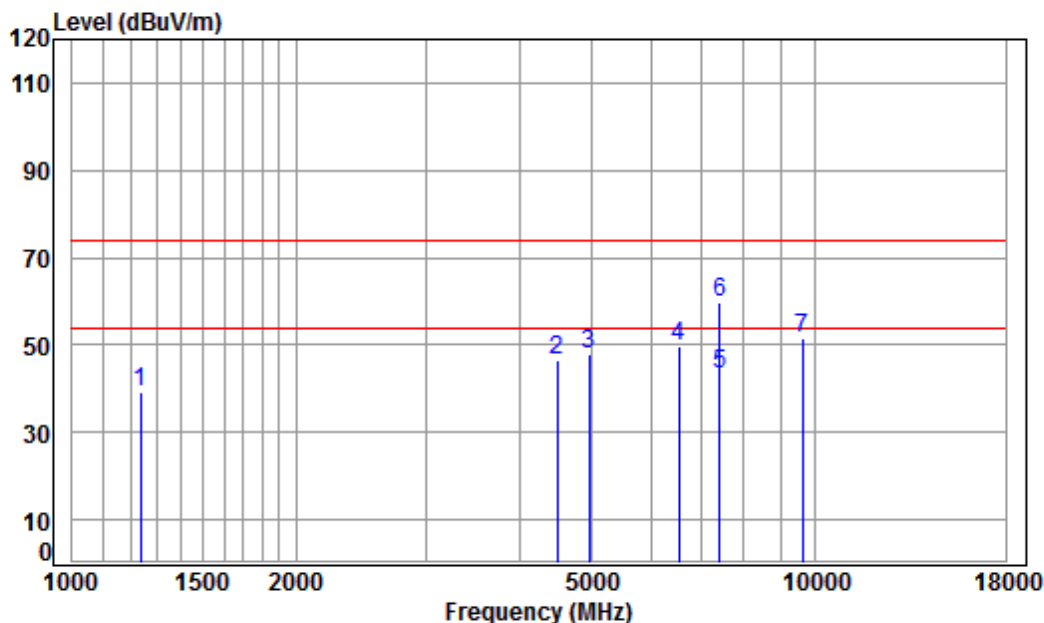
Mode : 2477.5 TX RSE

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1702.042 | 5.23       | 26.68      | 41.53         | 46.94      | 37.32  | 74.00  | -36.68 | peak   |
| 2    | 4379.699 | 7.43       | 33.39      | 42.40         | 48.49      | 46.91  | 74.00  | -27.09 | peak   |
| 3    | 4955.000 | 8.04       | 34.15      | 42.49         | 46.80      | 46.50  | 74.00  | -27.50 | peak   |
| 4    | 6377.195 | 11.31      | 35.48      | 41.31         | 43.75      | 49.23  | 74.00  | -24.77 | peak   |
| 5    | 7432.500 | 10.02      | 36.25      | 40.56         | 45.71      | 51.42  | 74.00  | -22.58 | peak   |
| 6 pp | 9610.000 | 10.75      | 37.67      | 37.73         | 40.89      | 51.58  | 74.00  | -22.42 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:1.4MHz; Channel:2477.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

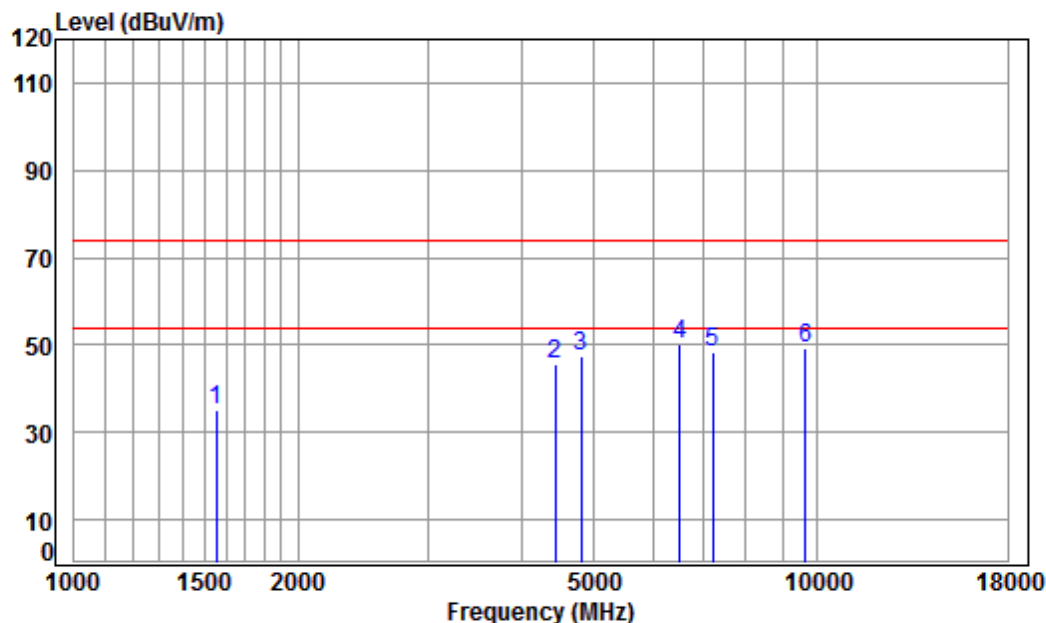
Mode : 2477.5 TX RSE

Note : 1.4M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|---------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 1234.909 | 4.55       | 24.74      | 41.21         | 51.18      | 39.26  | 74.00      | -34.74     | peak    |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42         | 47.79      | 46.51  | 74.00      | -27.49     | peak    |
| 3    | 4955.000 | 8.04       | 34.15      | 42.49         | 48.23      | 47.93  | 74.00      | -26.07     | peak    |
| 4    | 6545.263 | 11.41      | 35.63      | 41.18         | 43.98      | 49.84  | 74.00      | -24.16     | peak    |
| 5 pp | 7432.500 | 10.02      | 36.25      | 40.56         | 37.59      | 43.30  | 54.00      | -10.70     | Average |
| 6 pk | 7432.500 | 10.02      | 36.25      | 40.56         | 53.94      | 59.65  | 74.00      | -14.35     | peak    |
| 7    | 9610.000 | 10.75      | 37.67      | 37.73         | 40.81      | 51.50  | 74.00      | -22.50     | peak    |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2405.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

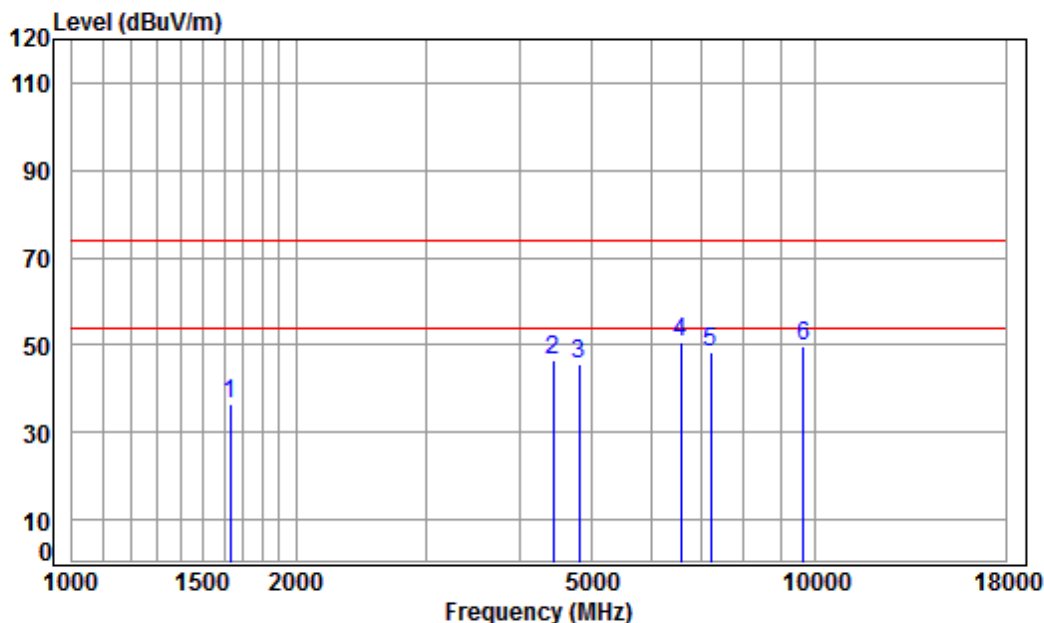
Mode : 2405.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1551.677 | 5.41       | 26.04      | 41.44         | 45.03      | 35.04  | 74.00      | -38.96     | peak   |
| 2    | 4443.453 | 7.50       | 33.50      | 42.41         | 47.05      | 45.64  | 74.00      | -28.36     | peak   |
| 3    | 4811.000 | 7.90       | 33.98      | 42.47         | 48.08      | 47.49  | 74.00      | -26.51     | peak   |
| 4 pp | 6526.373 | 11.46      | 35.62      | 41.20         | 44.23      | 50.11  | 74.00      | -23.89     | peak   |
| 5    | 7216.500 | 10.07      | 36.08      | 40.70         | 42.83      | 48.28  | 74.00      | -25.72     | peak   |
| 6    | 9622.000 | 10.75      | 37.67      | 37.72         | 38.72      | 49.42  | 74.00      | -24.58     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2405.5MHz;

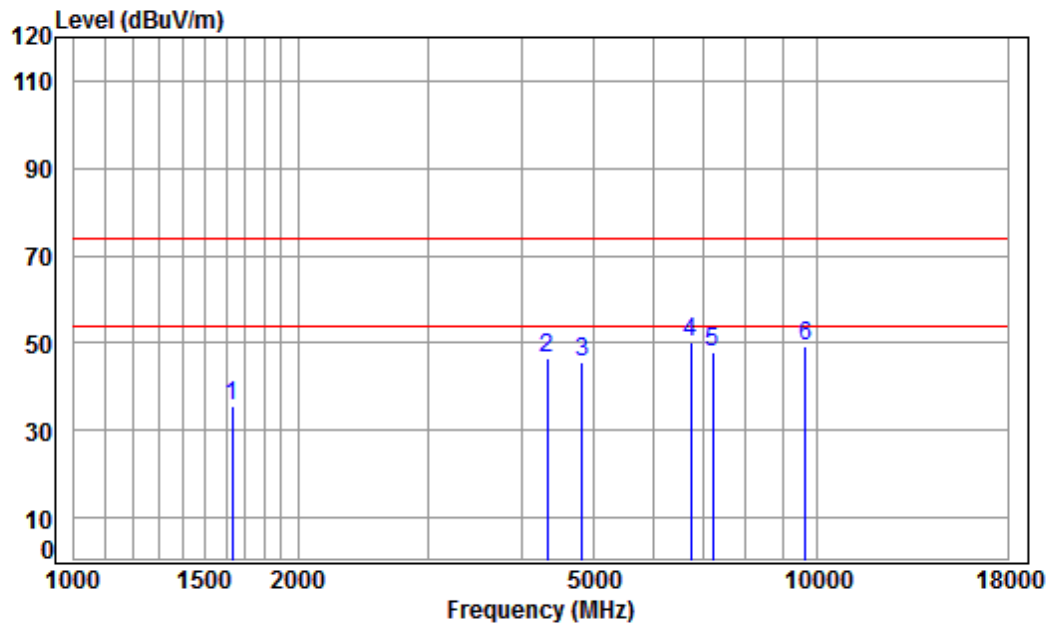


Condition: 3m VERTICAL  
Job No : 04177CR  
Mode : 2405.5 TX RSE  
Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1634.543 | 5.31       | 26.40      | 41.49         | 46.23      | 36.45  | 74.00      | -37.55     | peak   |
| 2    | 4430.628 | 7.48       | 33.48      | 42.41         | 48.13      | 46.68  | 74.00      | -27.32     | peak   |
| 3    | 4811.000 | 7.90       | 33.98      | 42.47         | 46.18      | 45.59  | 74.00      | -28.41     | peak   |
| 4 pp | 6583.209 | 11.30      | 35.65      | 41.15         | 44.81      | 50.61  | 74.00      | -23.39     | peak   |
| 5    | 7216.500 | 10.07      | 36.08      | 40.70         | 43.04      | 48.49  | 74.00      | -25.51     | peak   |
| 6    | 9622.000 | 10.75      | 37.67      | 37.72         | 39.12      | 49.82  | 74.00      | -24.18     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2409.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

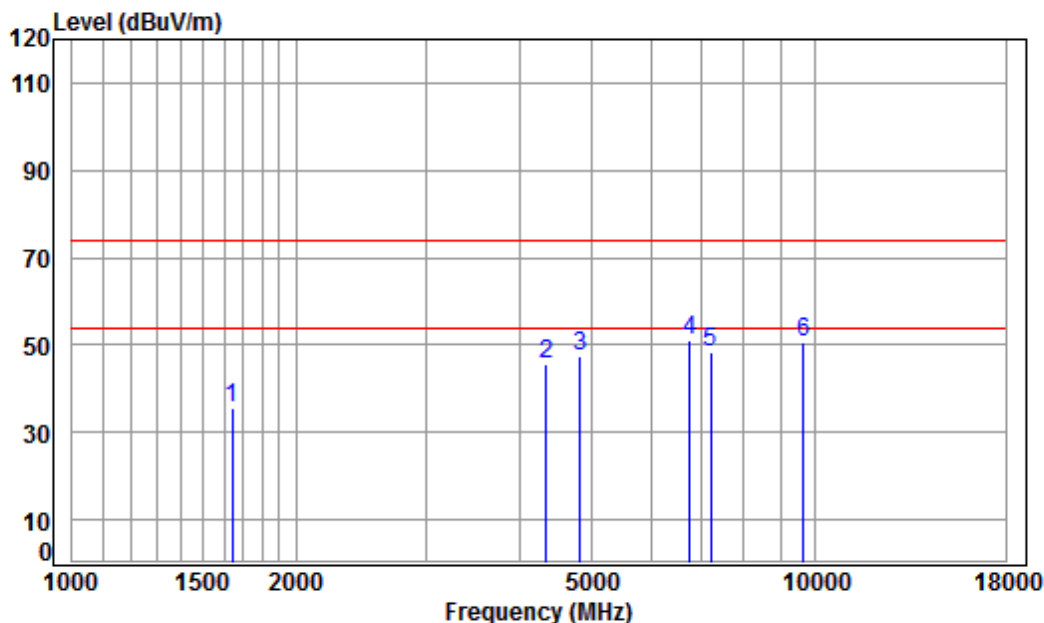
Mode : 2409.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1634.543 | 5.31       | 26.40      | 41.49               | 45.19      | 35.41  | 74.00      | -38.59     | peak   |
| 2    | 4329.354 | 7.37       | 33.30      | 42.39               | 48.23      | 46.51  | 74.00      | -27.49     | peak   |
| 3    | 4819.000 | 7.90       | 33.99      | 42.47               | 46.41      | 45.83  | 74.00      | -28.17     | peak   |
| 4 pp | 6756.708 | 10.80      | 35.76      | 41.03               | 44.69      | 50.22  | 74.00      | -23.78     | peak   |
| 5    | 7228.500 | 10.07      | 36.09      | 40.70               | 42.43      | 47.89  | 74.00      | -26.11     | peak   |
| 6    | 9638.000 | 10.76      | 37.68      | 37.70               | 38.35      | 49.09  | 74.00      | -24.91     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2409.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

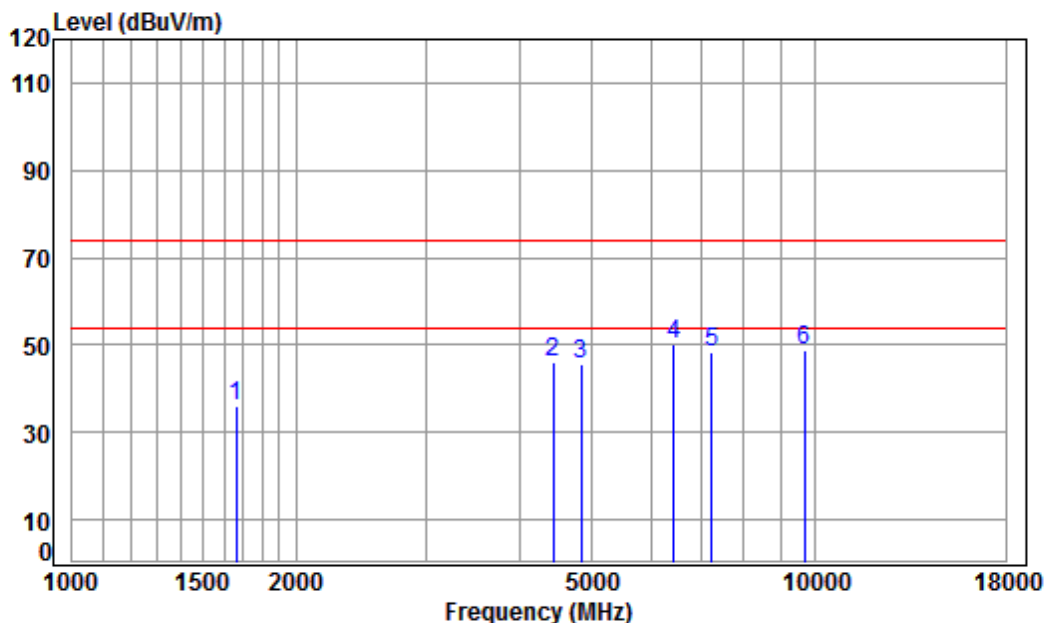
Mode : 2409.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1644.019 | 5.30       | 26.44      | 41.50         | 45.17      | 35.41  | 74.00      | -38.59     | peak   |
| 2    | 4341.886 | 7.38       | 33.33      | 42.39         | 47.26      | 45.58  | 74.00      | -28.42     | peak   |
| 3    | 4819.000 | 7.90       | 33.99      | 42.47         | 48.04      | 47.46  | 74.00      | -26.54     | peak   |
| 4 pp | 6776.265 | 10.75      | 35.77      | 41.01         | 45.72      | 51.23  | 74.00      | -22.77     | peak   |
| 5    | 7228.500 | 10.07      | 36.09      | 40.70         | 42.92      | 48.38  | 74.00      | -25.62     | peak   |
| 6    | 9638.000 | 10.76      | 37.68      | 37.70         | 39.71      | 50.45  | 74.00      | -23.55     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2417.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

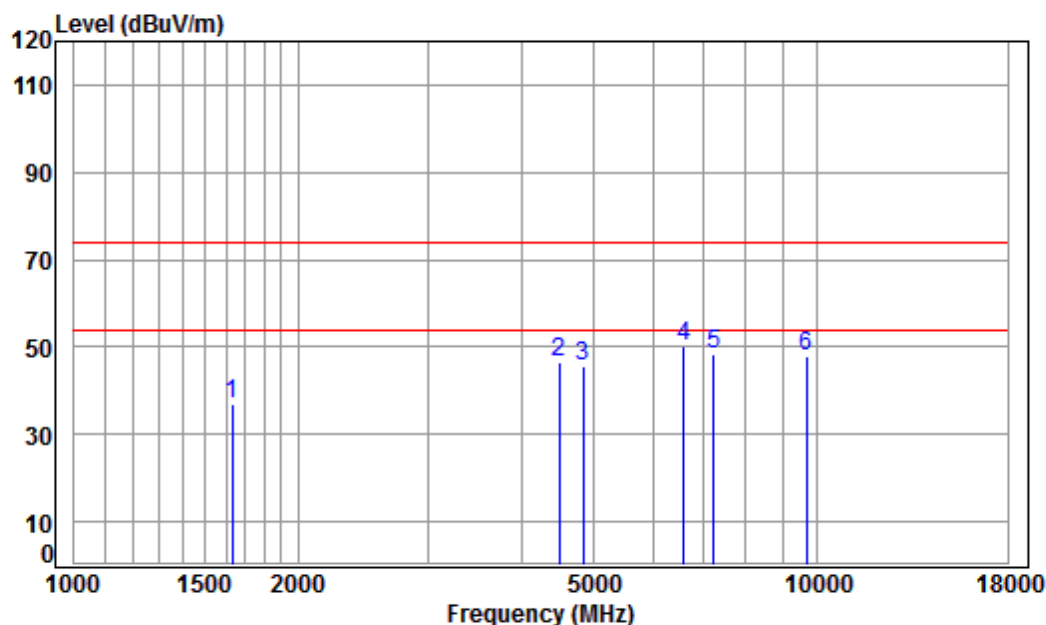
Mode : 2417.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1663.137 | 5.27       | 26.52      | 41.51         | 45.58      | 35.86  | 74.00  | -38.14 | peak   |
| 2    | 4430.628 | 7.48       | 33.48      | 42.41         | 47.46      | 46.01  | 74.00  | -27.99 | peak   |
| 3    | 4835.000 | 7.92       | 34.01      | 42.47         | 46.13      | 45.59  | 74.00  | -28.41 | peak   |
| 4 pp | 6451.353 | 11.45      | 35.55      | 41.25         | 44.44      | 50.19  | 74.00  | -23.81 | peak   |
| 5    | 7252.500 | 10.06      | 36.11      | 40.68         | 42.72      | 48.21  | 74.00  | -25.79 | peak   |
| 6    | 9670.000 | 10.78      | 37.70      | 37.65         | 37.98      | 48.81  | 74.00  | -25.19 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2417.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

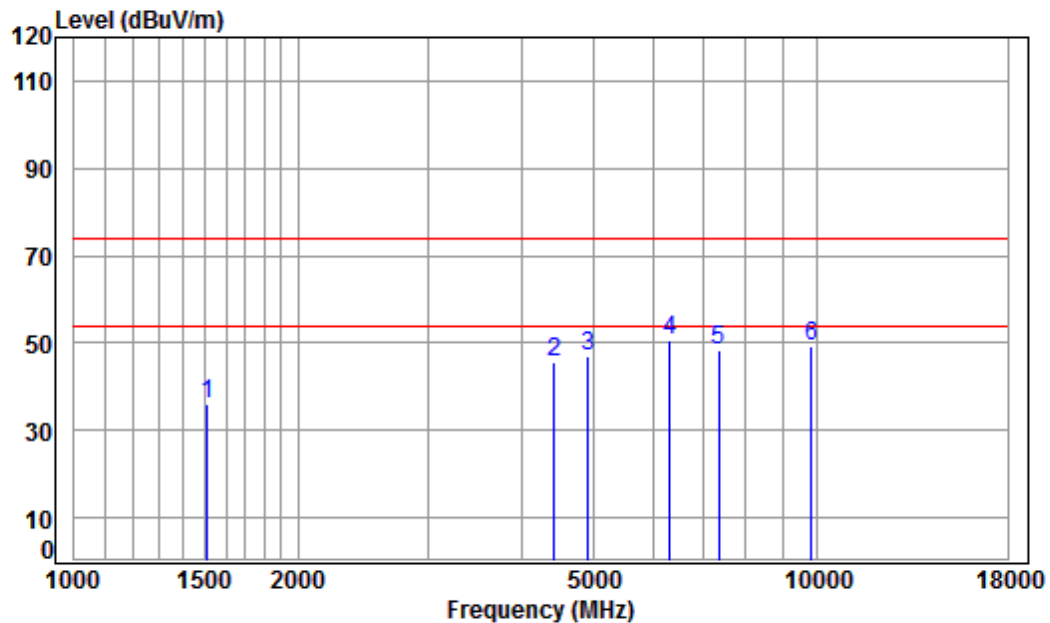
Mode : 2417.5 TX RSE

Note : 10M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 1629.825 | 5.31  | 26.38  | 41.49  | 46.67 | 36.87  | 74.00  | -37.13 | peak   |
| 2    | 4495.125 | 7.55  | 33.59  | 42.42  | 47.80 | 46.52  | 74.00  | -27.48 | peak   |
| 3    | 4835.000 | 7.92  | 34.01  | 42.47  | 46.28 | 45.74  | 74.00  | -28.26 | peak   |
| 4 pp | 6602.265 | 11.24 | 35.66  | 41.14  | 44.35 | 50.11  | 74.00  | -23.89 | peak   |
| 5    | 7252.500 | 10.06 | 36.11  | 40.68  | 42.80 | 48.29  | 74.00  | -25.71 | peak   |
| 6    | 9670.000 | 10.78 | 37.70  | 37.65  | 37.23 | 48.06  | 74.00  | -25.94 | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2455.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

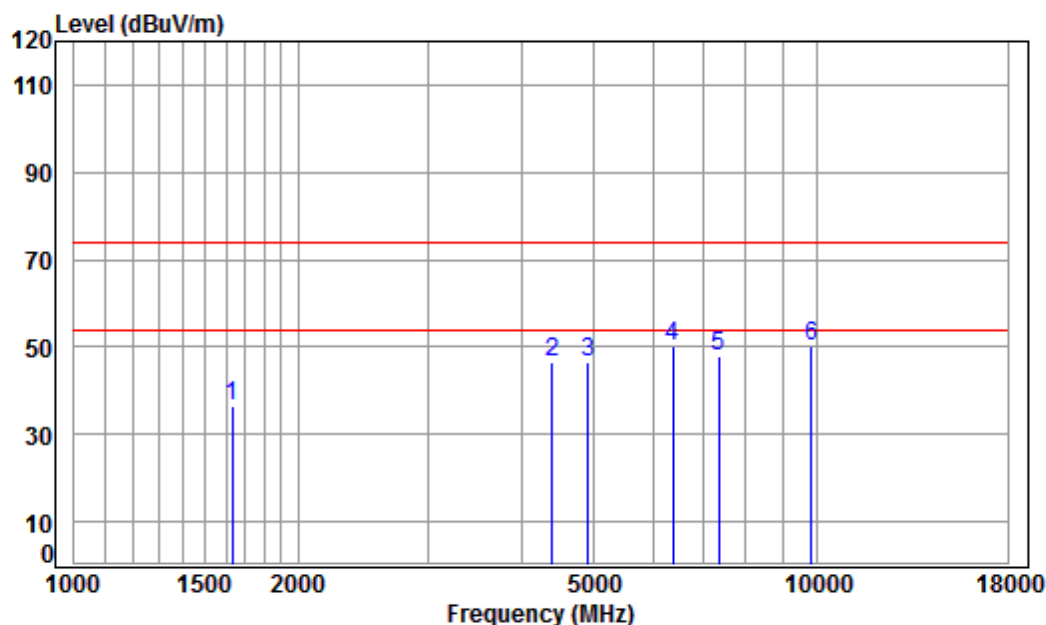
Mode : 2455.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1511.833 | 5.46       | 25.85      | 41.41         | 45.92      | 35.82  | 74.00      | -38.18     | peak   |
| 2    | 4417.841 | 7.47       | 33.46      | 42.40         | 47.19      | 45.72  | 74.00      | -28.28     | peak   |
| 3    | 4911.000 | 8.00       | 34.10      | 42.49         | 47.31      | 46.92  | 74.00      | -27.08     | peak   |
| 4 pp | 6322.136 | 11.20      | 35.43      | 41.35         | 45.23      | 50.51  | 74.00      | -23.49     | peak   |
| 5    | 7366.500 | 10.03      | 36.20      | 40.60         | 42.70      | 48.33  | 74.00      | -25.67     | peak   |
| 6    | 9822.000 | 10.85      | 37.79      | 37.44         | 38.24      | 49.44  | 74.00      | -24.56     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2455.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

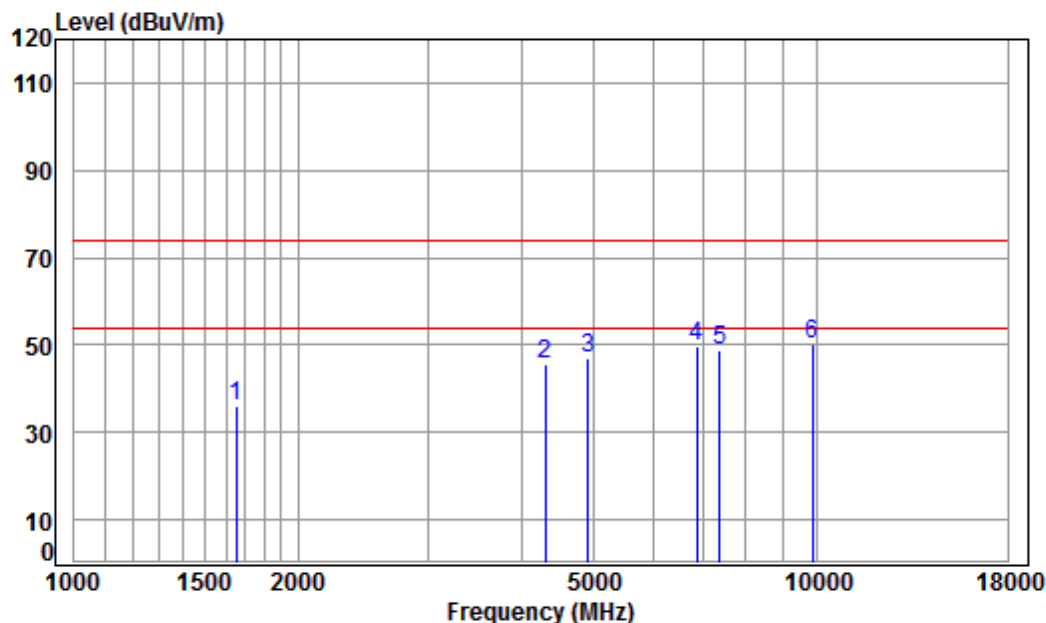
Mode : 2455.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1629.825 | 5.31       | 26.38      | 41.49               | 46.33      | 36.53  | 74.00      | -37.47     | peak   |
| 2    | 4392.376 | 7.44       | 33.42      | 42.40               | 48.03      | 46.49  | 74.00      | -27.51     | peak   |
| 3    | 4911.000 | 8.00       | 34.10      | 42.49               | 46.84      | 46.45  | 74.00      | -27.55     | peak   |
| 4 pp | 6395.654 | 11.34      | 35.50      | 41.30               | 44.52      | 50.06  | 74.00      | -23.94     | peak   |
| 5    | 7366.500 | 10.03      | 36.20      | 40.60               | 42.16      | 47.79  | 74.00      | -26.21     | peak   |
| 6    | 9822.000 | 10.85      | 37.79      | 37.44               | 38.78      | 49.98  | 74.00      | -24.02     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2459.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

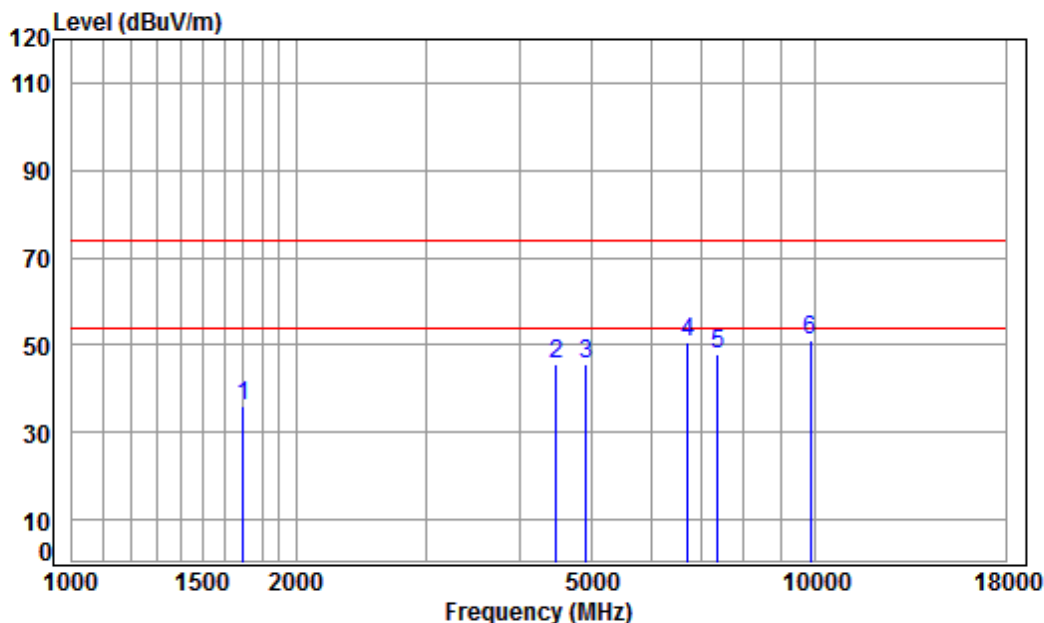
Mode : 2459.5 TX RSE

Note : 10M ANT0

|   | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1653.550 | 5.28       | 26.48      | 41.50               | 45.74      | 36.00  | 74.00      | -38.00     | peak   |
| 2 | 4304.400 | 7.34       | 33.26      | 42.38               | 47.44      | 45.66  | 74.00      | -28.34     | peak   |
| 3 | 4919.000 | 8.01       | 34.11      | 42.49               | 47.30      | 46.93  | 74.00      | -27.07     | peak   |
| 4 | 6874.906 | 10.47      | 35.83      | 40.94               | 44.38      | 49.74  | 74.00      | -24.26     | peak   |
| 5 | 7378.500 | 10.03      | 36.21      | 40.60               | 43.31      | 48.95  | 74.00      | -25.05     | peak   |
| 6 | 9838.000 | 10.86      | 37.80      | 37.42               | 39.13      | 50.37  | 74.00      | -23.63     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2459.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

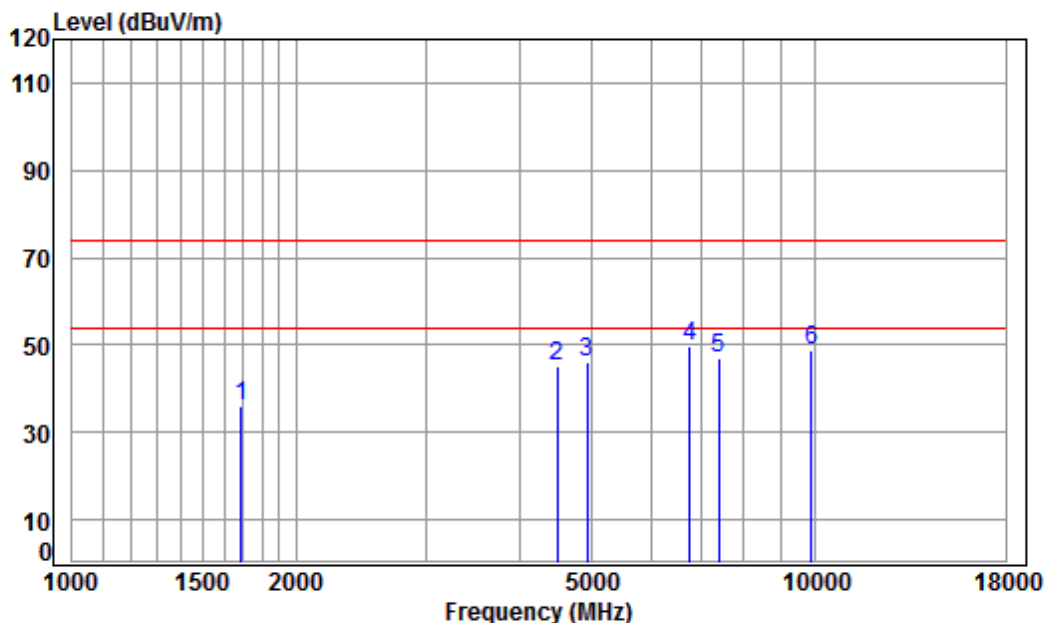
Mode : 2459.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1    | 1697.129 | 5.23       | 26.66      | 41.53         | 45.69      | 36.05  | 74.00  | -37.95     | peak   |
| 2    | 4482.150 | 7.54       | 33.57      | 42.41         | 46.72      | 45.42  | 74.00  | -28.58     | peak   |
| 3    | 4919.000 | 8.01       | 34.11      | 42.49         | 46.22      | 45.85  | 74.00  | -28.15     | peak   |
| 4    | 6737.207 | 10.86      | 35.75      | 41.04         | 45.16      | 50.73  | 74.00  | -23.27     | peak   |
| 5    | 7378.500 | 10.03      | 36.21      | 40.60         | 42.10      | 47.74  | 74.00  | -26.26     | peak   |
| 6 pp | 9838.000 | 10.86      | 37.80      | 37.42         | 39.68      | 50.92  | 74.00  | -23.08     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2467.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

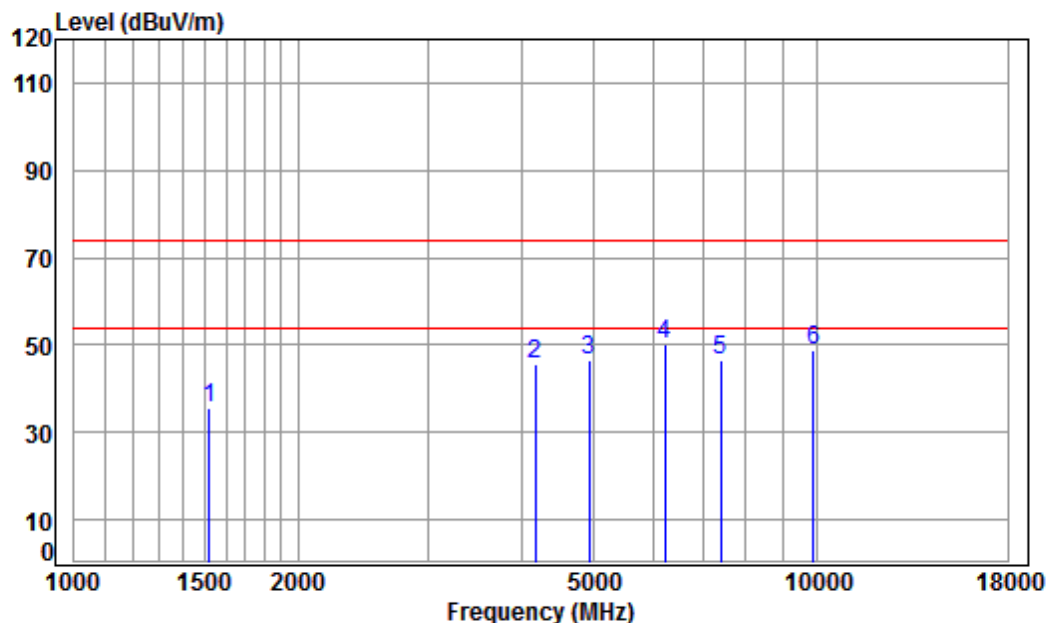
Mode : 2467.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1687.347 | 5.24       | 26.62      | 41.52         | 45.74      | 36.08  | 74.00      | -37.92     | peak   |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42         | 46.62      | 45.34  | 74.00      | -28.66     | peak   |
| 3    | 4935.000 | 8.02       | 34.13      | 42.49         | 46.22      | 45.88  | 74.00      | -28.12     | peak   |
| 4 pp | 6776.265 | 10.75      | 35.77      | 41.01         | 44.21      | 49.72  | 74.00      | -24.28     | peak   |
| 5    | 7402.500 | 10.02      | 36.22      | 40.58         | 41.22      | 46.88  | 74.00      | -27.12     | peak   |
| 6    | 9870.000 | 10.88      | 37.82      | 37.38         | 37.57      | 48.89  | 74.00      | -25.11     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2467.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

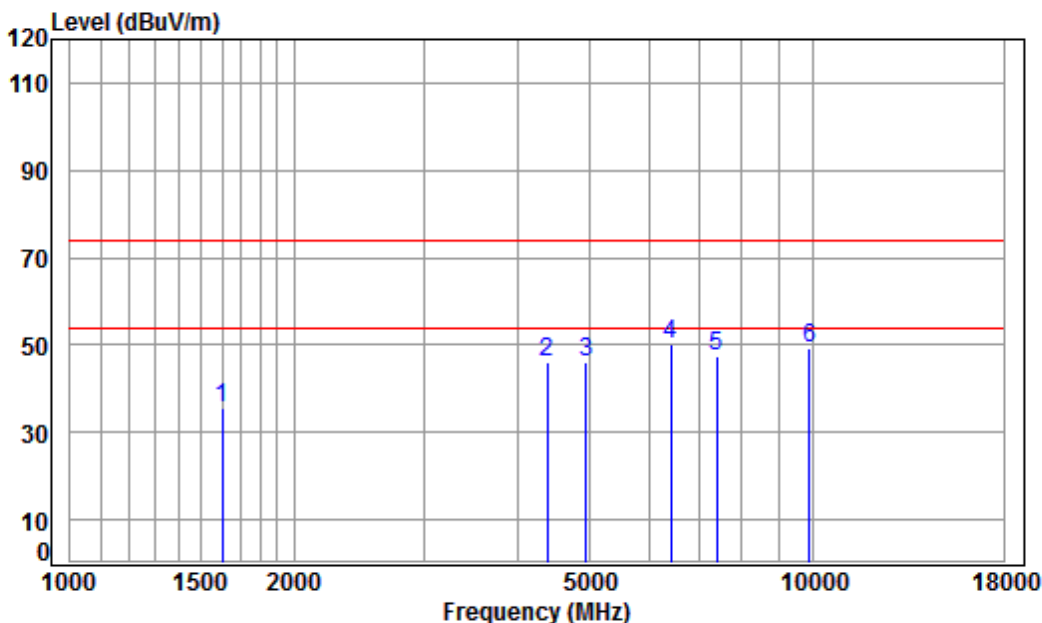
Mode : 2467.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1520.598 | 5.45       | 25.89      | 41.42         | 45.89      | 35.81  | 74.00  | -38.19 | peak   |
| 2    | 4169.698 | 7.18       | 33.02      | 42.36         | 47.89      | 45.73  | 74.00  | -28.27 | peak   |
| 3    | 4935.000 | 8.02       | 34.13      | 42.49         | 46.95      | 46.61  | 74.00  | -27.39 | peak   |
| 4 pp | 6231.427 | 11.03      | 35.34      | 41.42         | 45.07      | 50.02  | 74.00  | -23.98 | peak   |
| 5    | 7402.500 | 10.02      | 36.22      | 40.58         | 40.99      | 46.65  | 74.00  | -27.35 | peak   |
| 6    | 9870.000 | 10.88      | 37.82      | 37.38         | 37.34      | 48.66  | 74.00  | -25.34 | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2469.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

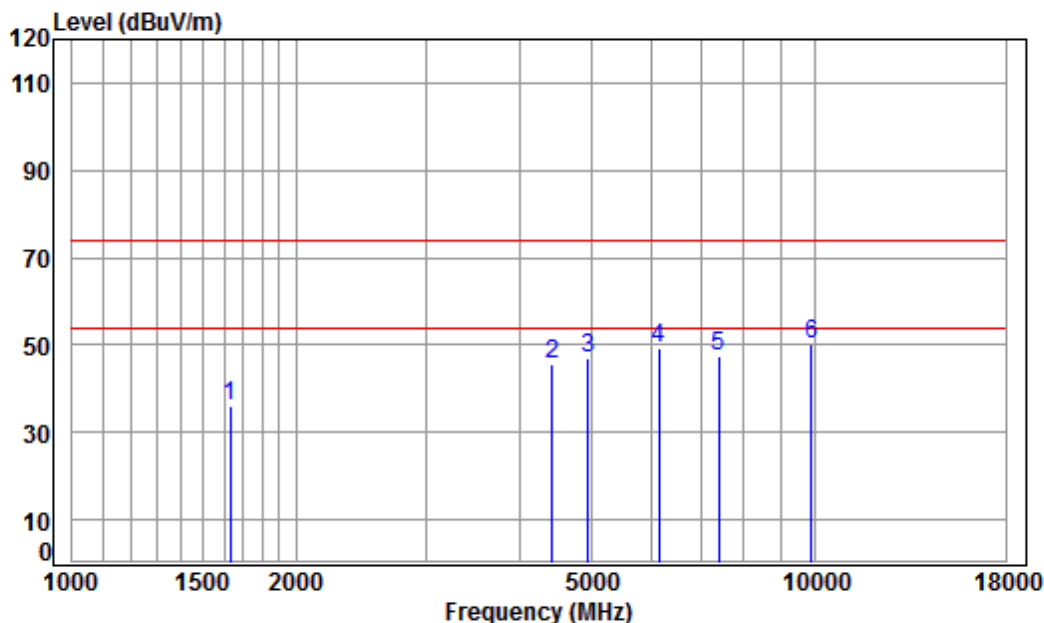
Mode : 2469.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1601.804 | 5.35       | 26.26      | 41.47         | 45.23      | 35.37  | 74.00      | -38.63     | peak   |
| 2    | 4379.699 | 7.43       | 33.39      | 42.40         | 47.49      | 45.91  | 74.00      | -28.09     | peak   |
| 3    | 4939.000 | 8.03       | 34.13      | 42.49         | 46.49      | 46.16  | 74.00      | -27.84     | peak   |
| 4 pp | 6432.732 | 11.41      | 35.54      | 41.27         | 44.64      | 50.32  | 74.00      | -23.68     | peak   |
| 5    | 7408.500 | 10.02      | 36.23      | 40.58         | 42.01      | 47.68  | 74.00      | -26.32     | peak   |
| 6    | 9878.000 | 10.88      | 37.83      | 37.37         | 38.04      | 49.38  | 74.00      | -24.62     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2469.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

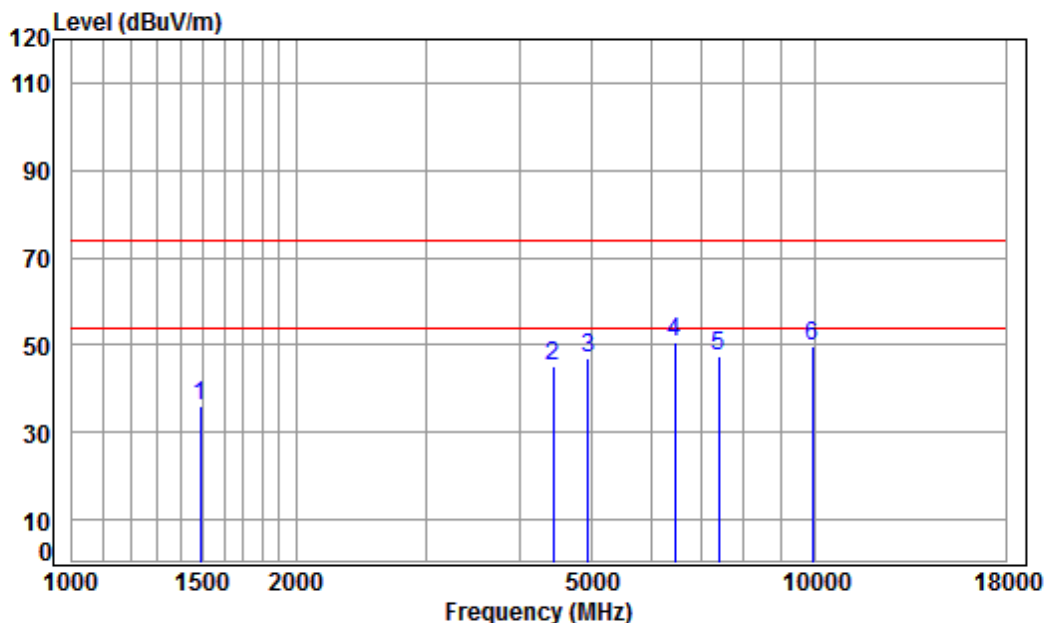
Mode : 2469.5 TX RSE

Note : 10M ANT0

|   | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|---|----------|------------|------------|---------------------|------------|--------|--------|------------|--------|
|   | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1 | 1634.543 | 5.31       | 26.40      | 41.49               | 45.69      | 35.91  | 74.00  | -38.09     | peak   |
| 2 | 4417.841 | 7.47       | 33.46      | 42.40               | 47.22      | 45.75  | 74.00  | -28.25     | peak   |
| 3 | 4939.000 | 8.03       | 34.13      | 42.49               | 47.13      | 46.80  | 74.00  | -27.20     | peak   |
| 4 | 6159.797 | 10.89      | 35.26      | 41.48               | 44.83      | 49.50  | 74.00  | -24.50     | peak   |
| 5 | 7408.500 | 10.02      | 36.23      | 40.58               | 41.56      | 47.23  | 74.00  | -26.77     | peak   |
| 6 | 9878.000 | 10.88      | 37.83      | 37.37               | 38.65      | 49.99  | 74.00  | -24.01     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2471.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

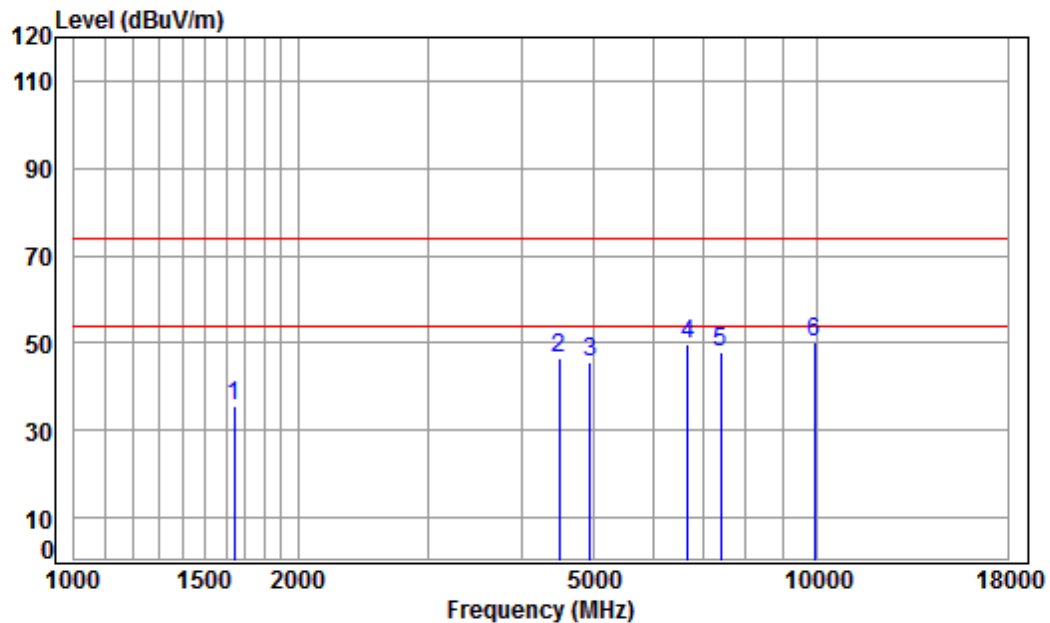
Mode : 2471.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1490.142 | 5.45       | 25.76      | 41.40         | 46.02      | 35.83  | 74.00  | -38.17 | peak   |
| 2    | 4443.453 | 7.50       | 33.50      | 42.41         | 46.74      | 45.33  | 74.00  | -28.67 | peak   |
| 3    | 4943.000 | 8.03       | 34.13      | 42.49         | 47.34      | 47.01  | 74.00  | -26.99 | peak   |
| 4 pp | 6470.026 | 11.48      | 35.57      | 41.24         | 44.85      | 50.66  | 74.00  | -23.34 | peak   |
| 5    | 7414.500 | 10.02      | 36.23      | 40.57         | 41.83      | 47.51  | 74.00  | -26.49 | peak   |
| 6    | 9886.000 | 10.88      | 37.83      | 37.35         | 38.33      | 49.69  | 74.00  | -24.31 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2471.5MHz;



Condition: 3m VERTICAL

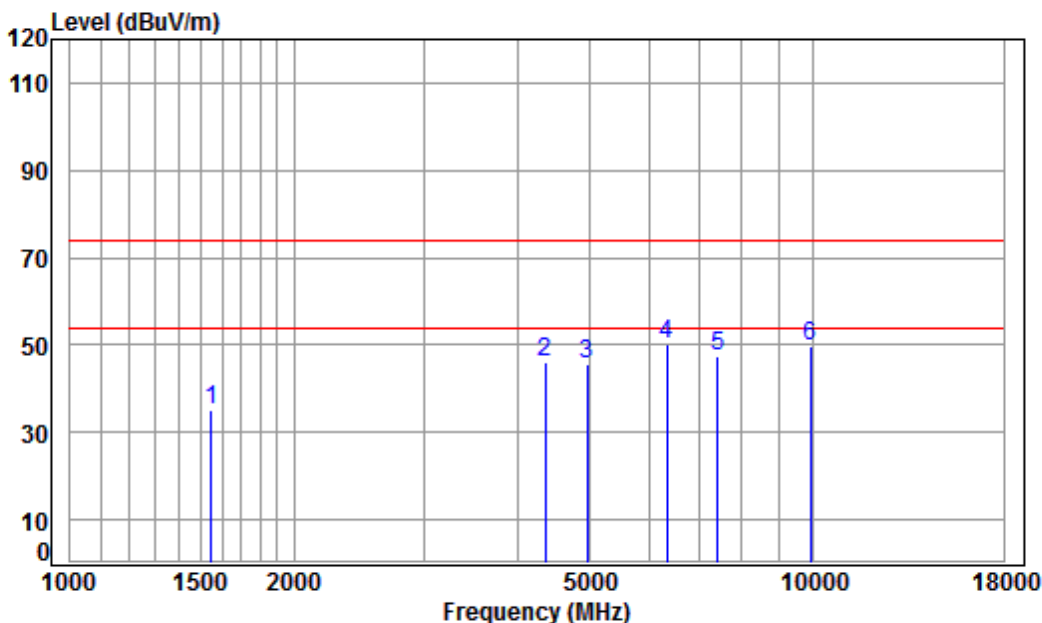
Job No : 04177CR

Mode : 2471.5 TX RSE

Note : 10M ANT0

|   | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1644.019 | 5.30       | 26.44      | 41.50               | 45.52      | 35.76  | 74.00      | -38.24     | peak   |
| 2 | 4495.125 | 7.55       | 33.59      | 42.42               | 47.65      | 46.37  | 74.00      | -27.63     | peak   |
| 3 | 4943.000 | 8.03       | 34.13      | 42.49               | 46.05      | 45.72  | 74.00      | -28.28     | peak   |
| 4 | 6679.040 | 11.02      | 35.71      | 41.08               | 43.96      | 49.61  | 74.00      | -24.39     | peak   |
| 5 | 7414.500 | 10.02      | 36.23      | 40.57               | 42.15      | 47.83  | 74.00      | -26.17     | peak   |
| 6 | 9886.000 | 10.88      | 37.83      | 37.35               | 38.77      | 50.13  | 74.00      | -23.87     | peak   |

Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2476.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

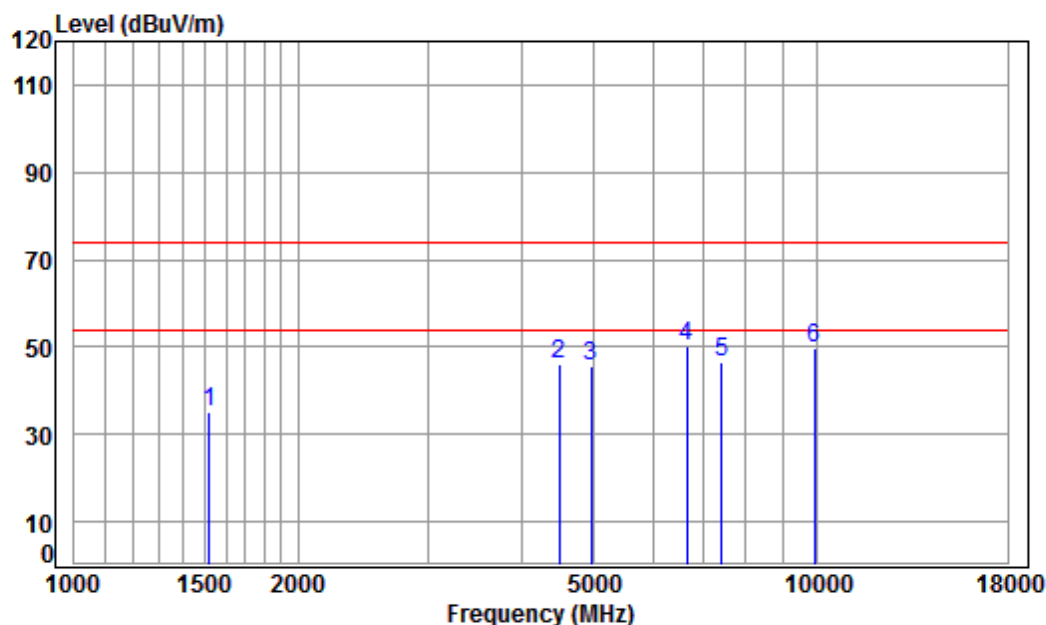
Mode : 2476.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1547.199 | 5.42       | 26.02      | 41.44               | 45.20      | 35.20  | 74.00      | -38.80     | peak   |
| 2    | 4354.454 | 7.40       | 33.35      | 42.39               | 47.61      | 45.97  | 74.00      | -28.03     | peak   |
| 3    | 4953.000 | 8.04       | 34.15      | 42.49               | 46.01      | 45.71  | 74.00      | -28.29     | peak   |
| 4 pp | 6340.436 | 11.24      | 35.44      | 41.34               | 44.86      | 50.20  | 74.00      | -23.80     | peak   |
| 5    | 7429.500 | 10.02      | 36.25      | 40.56               | 41.88      | 47.59  | 74.00      | -26.41     | peak   |
| 6    | 9906.000 | 10.89      | 37.84      | 37.33               | 38.46      | 49.86  | 74.00      | -24.14     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2476.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

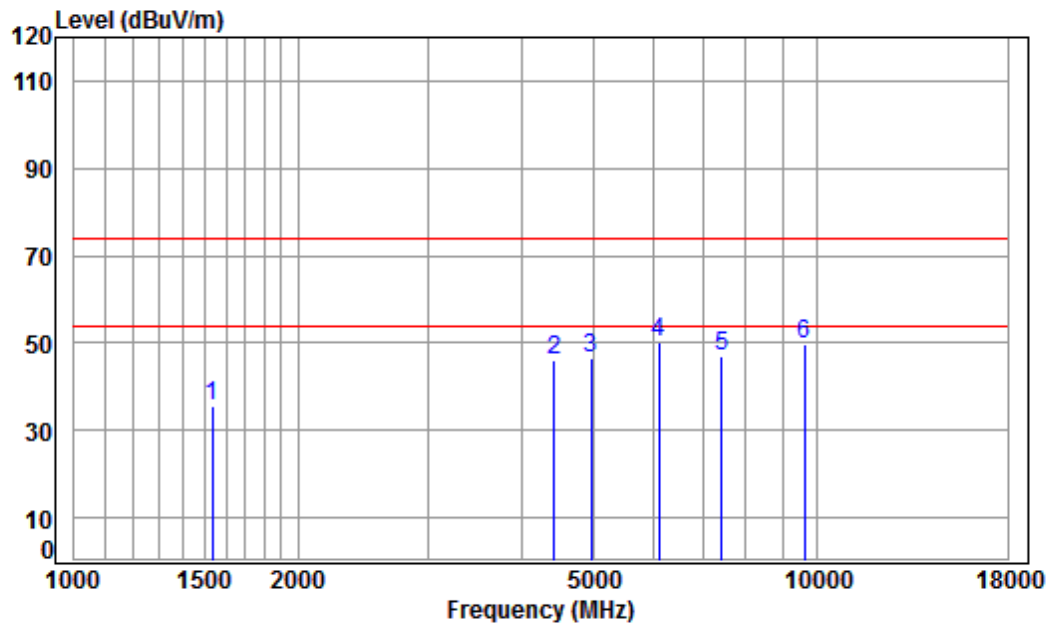
Mode : 2476.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1520.598 | 5.45       | 25.89      | 41.42               | 45.43      | 35.35  | 74.00      | -38.65     | peak   |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42               | 47.57      | 46.29  | 74.00      | -27.71     | peak   |
| 3    | 4953.000 | 8.04       | 34.15      | 42.49               | 46.01      | 45.71  | 74.00      | -28.29     | peak   |
| 4 pp | 6659.763 | 11.08      | 35.70      | 41.10               | 44.60      | 50.28  | 74.00      | -23.72     | peak   |
| 5    | 7429.500 | 10.02      | 36.25      | 40.56               | 40.80      | 46.51  | 74.00      | -27.49     | peak   |
| 6    | 9906.000 | 10.89      | 37.84      | 37.33               | 38.28      | 49.68  | 74.00      | -24.32     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:10MHz; Channel:2477.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

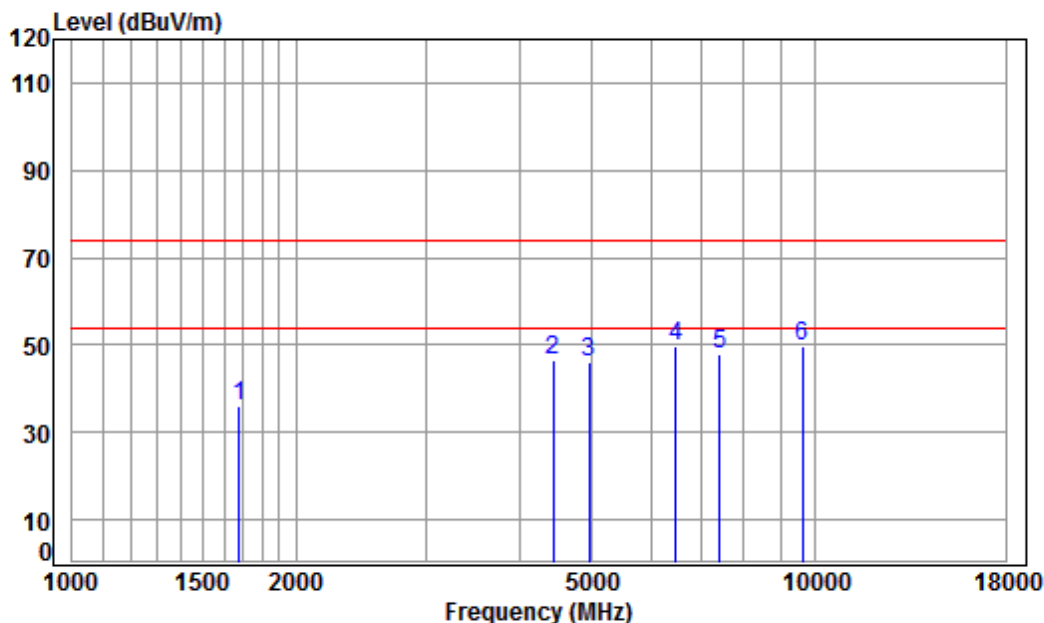
Mode : 2477.5 TX RSE

Note : 10M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1533.841 | 5.44       | 25.96      | 41.43         | 45.57      | 35.54  | 74.00  | -38.46 | peak   |
| 2    | 4417.841 | 7.47       | 33.46      | 42.40         | 47.66      | 46.19  | 74.00  | -27.81 | peak   |
| 3    | 4955.000 | 8.04       | 34.15      | 42.49         | 46.81      | 46.51  | 74.00  | -27.49 | peak   |
| 4 pp | 6124.292 | 10.82      | 35.23      | 41.51         | 45.87      | 50.41  | 74.00  | -23.59 | peak   |
| 5    | 7432.500 | 10.02      | 36.25      | 40.56         | 41.50      | 47.21  | 74.00  | -26.79 | peak   |
| 6    | 9610.000 | 10.75      | 37.67      | 37.73         | 39.03      | 49.72  | 74.00  | -24.28 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:10MHz; Channel:2477.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

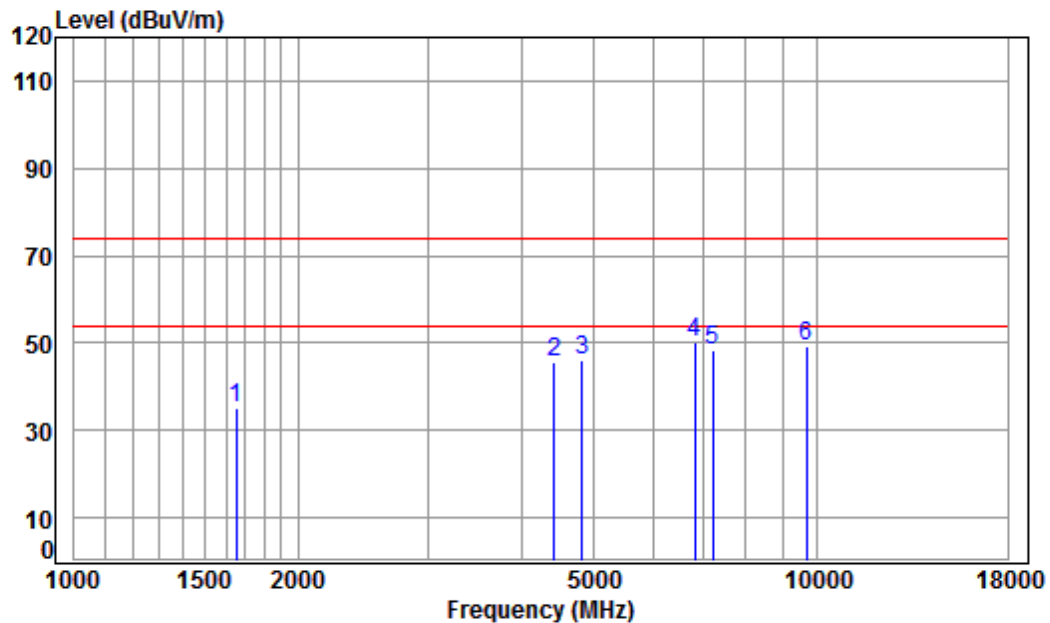
Mode : 2477.5 TX RSE

Note : 10M ANT0

|   | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1677.621 | 5.25       | 26.58      | 41.52               | 45.68      | 35.99  | 74.00      | -38.01     | peak   |
| 2 | 4430.628 | 7.48       | 33.48      | 42.41               | 47.76      | 46.31  | 74.00      | -27.69     | peak   |
| 3 | 4955.000 | 8.04       | 34.15      | 42.49               | 46.61      | 46.31  | 74.00      | -27.69     | peak   |
| 4 | 6488.754 | 11.52      | 35.59      | 41.22               | 43.69      | 49.58  | 74.00      | -24.42     | peak   |
| 5 | 7432.500 | 10.02      | 36.25      | 40.56               | 41.98      | 47.69  | 74.00      | -26.31     | peak   |
| 6 | 9610.000 | 10.75      | 37.67      | 37.73               | 38.93      | 49.62  | 74.00      | -24.38     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2410.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

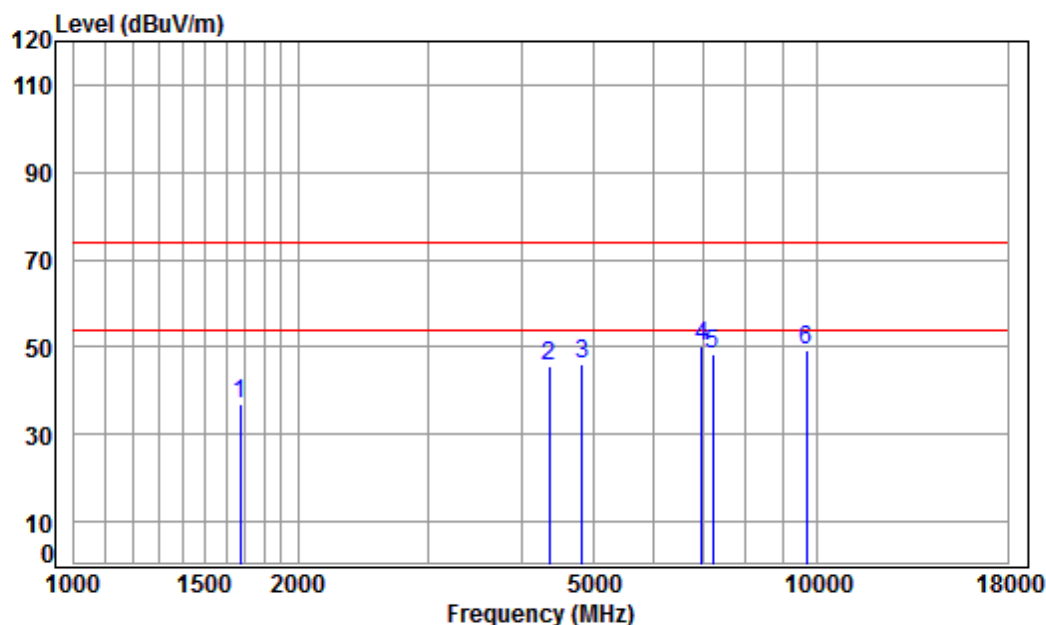
Mode : 2410.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1653.550 | 5.28       | 26.48      | 41.50               | 44.92      | 35.18  | 74.00      | -38.82     | peak   |
| 2    | 4417.841 | 7.47       | 33.46      | 42.40               | 47.26      | 45.79  | 74.00      | -28.21     | peak   |
| 3    | 4821.000 | 7.91       | 33.99      | 42.47               | 46.56      | 45.99  | 74.00      | -28.01     | peak   |
| 4 pp | 6835.278 | 10.58      | 35.80      | 40.97               | 44.59      | 50.00  | 74.00      | -24.00     | peak   |
| 5    | 7231.500 | 10.07      | 36.09      | 40.69               | 42.83      | 48.30  | 74.00      | -25.70     | peak   |
| 6    | 9642.000 | 10.76      | 37.69      | 37.69               | 38.70      | 49.46  | 74.00      | -24.54     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2410.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

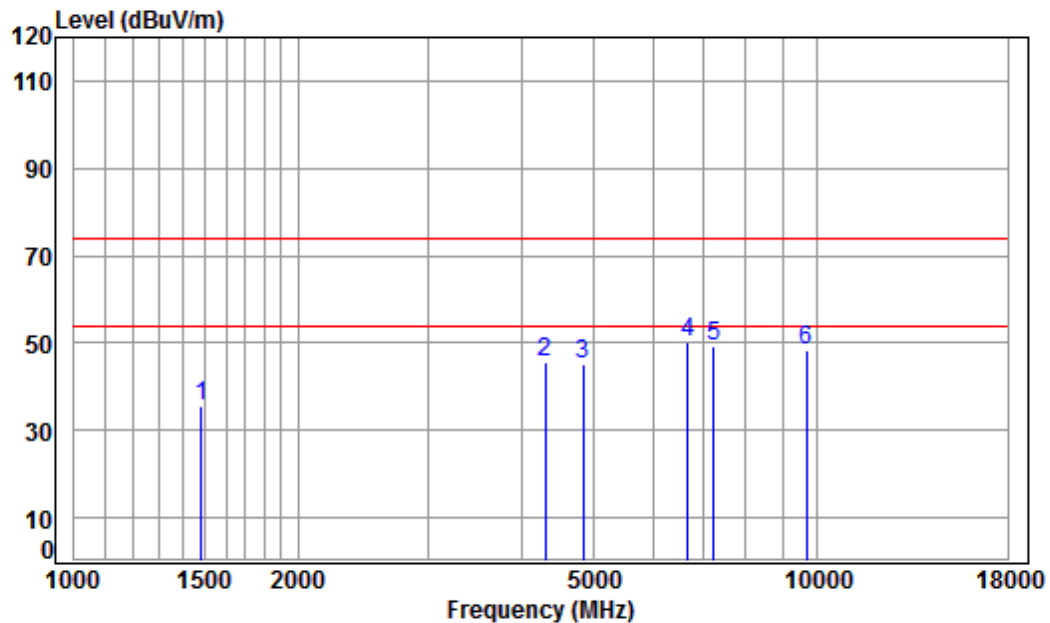
Mode : 2410.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1672.779 | 5.26       | 26.56      | 41.52         | 46.44      | 36.74  | 74.00      | -37.26     | peak   |
| 2    | 4354.454 | 7.40       | 33.35      | 42.39         | 47.21      | 45.57  | 74.00      | -28.43     | peak   |
| 3    | 4821.000 | 7.91       | 33.99      | 42.47         | 46.63      | 46.06  | 74.00      | -27.94     | peak   |
| 4 pp | 6974.982 | 10.20      | 35.89      | 40.87         | 44.94      | 50.16  | 74.00      | -23.84     | peak   |
| 5    | 7231.500 | 10.07      | 36.09      | 40.69         | 42.68      | 48.15  | 74.00      | -25.85     | peak   |
| 6    | 9642.000 | 10.76      | 37.69      | 37.69         | 38.57      | 49.33  | 74.00      | -24.67     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2415.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

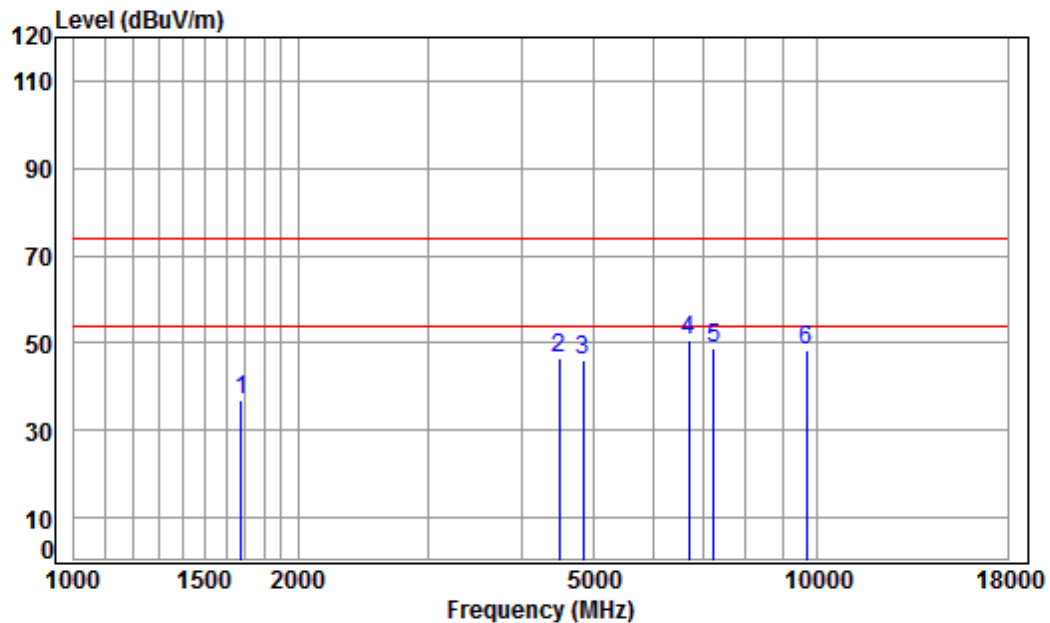
Mode : 2415.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1481.553 | 5.42       | 25.73      | 41.39               | 45.82      | 35.58  | 74.00      | -38.42     | peak   |
| 2    | 4304.400 | 7.34       | 33.26      | 42.38               | 47.45      | 45.67  | 74.00      | -28.33     | peak   |
| 3    | 4831.000 | 7.92       | 34.00      | 42.47               | 45.88      | 45.33  | 74.00      | -28.67     | peak   |
| 4 pp | 6698.373 | 10.97      | 35.72      | 41.07               | 44.76      | 50.38  | 74.00      | -23.62     | peak   |
| 5    | 7246.500 | 10.06      | 36.10      | 40.68               | 43.69      | 49.17  | 74.00      | -24.83     | peak   |
| 6    | 9662.000 | 10.77      | 37.70      | 37.66               | 37.41      | 48.22  | 74.00      | -25.78     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2415.5MHz;



Condition: 3m VERTICAL

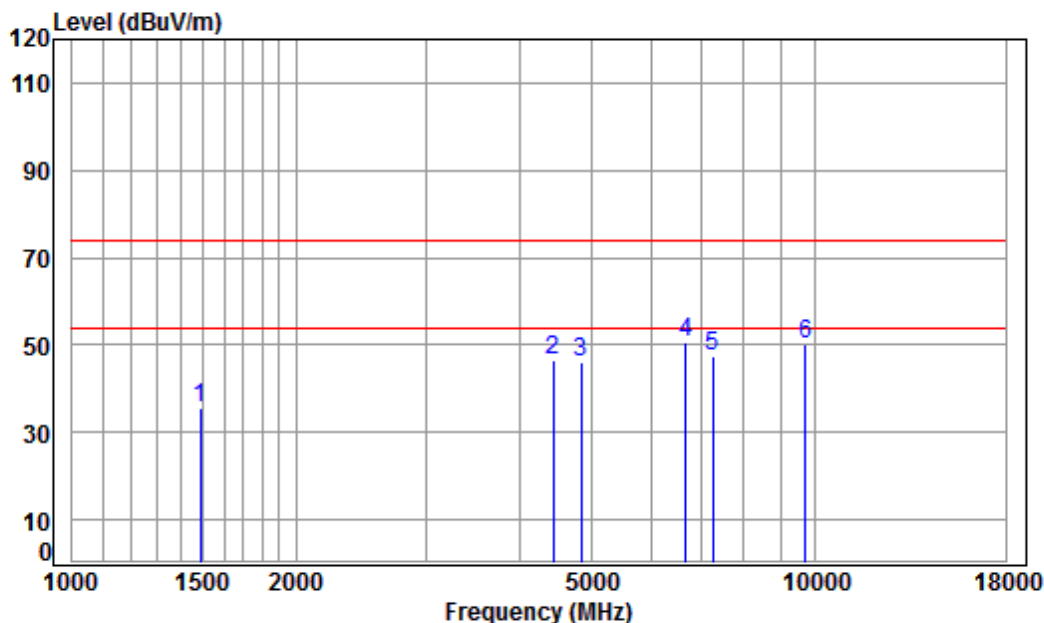
Job No : 04177CR

Mode : 2415.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1677.621 | 5.25       | 26.58      | 41.52         | 46.56      | 36.87  | 74.00      | -37.13     | peak   |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42         | 47.63      | 46.35  | 74.00      | -27.65     | peak   |
| 3    | 4831.000 | 7.92       | 34.00      | 42.47         | 46.72      | 46.17  | 74.00      | -27.83     | peak   |
| 4 pp | 6717.762 | 10.91      | 35.73      | 41.05         | 44.96      | 50.55  | 74.00      | -23.45     | peak   |
| 5    | 7246.500 | 10.06      | 36.10      | 40.68         | 43.39      | 48.87  | 74.00      | -25.13     | peak   |
| 6    | 9662.000 | 10.77      | 37.70      | 37.66         | 37.61      | 48.42  | 74.00      | -25.58     | peak   |

Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2420.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

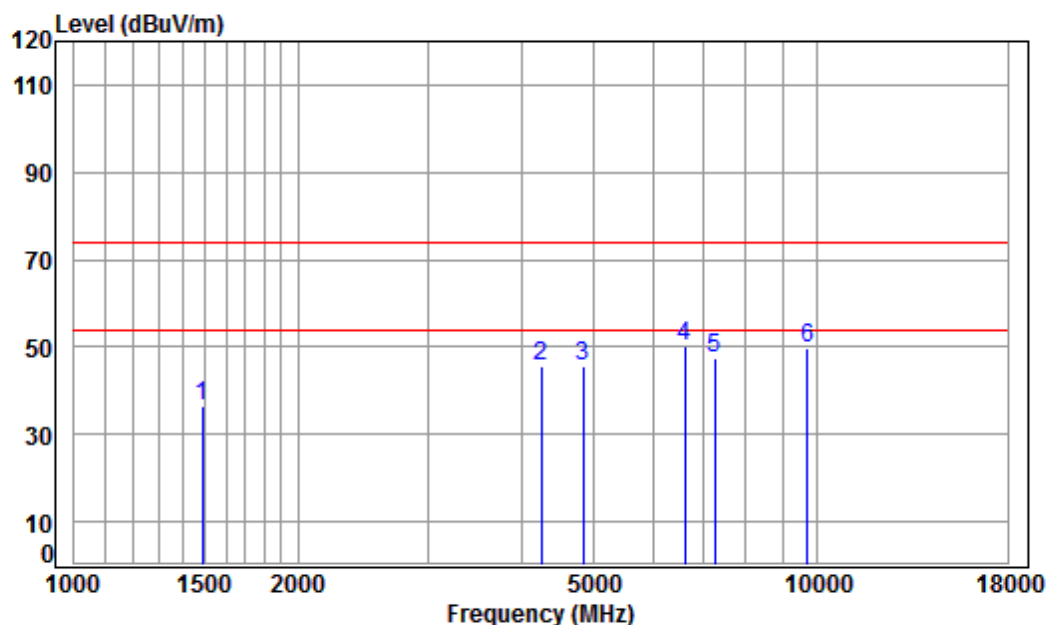
Mode : 2420.5 TX RSE

Note : 20M ANT0

|      |          | Cable | Ant    | Preamp | Read  |        | Limit  | Over   |        |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
|      | Freq     | Loss  | Factor | Factor | Level | Level  | Line   | Limit  | Remark |
|      | MHz      | dB    | dB/m   | dB     | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 1490.142 | 5.45  | 25.76  | 41.40  | 45.67 | 35.48  | 74.00  | -38.52 | peak   |
| 2    | 4443.453 | 7.50  | 33.50  | 42.41  | 47.87 | 46.46  | 74.00  | -27.54 | peak   |
| 3    | 4841.000 | 7.93  | 34.02  | 42.47  | 46.63 | 46.11  | 74.00  | -27.89 | peak   |
| 4 pp | 6679.040 | 11.02 | 35.71  | 41.08  | 44.81 | 50.46  | 74.00  | -23.54 | peak   |
| 5    | 7261.500 | 10.06 | 36.11  | 40.67  | 41.91 | 47.41  | 74.00  | -26.59 | peak   |
| 6    | 9682.000 | 10.78 | 37.71  | 37.63  | 39.12 | 49.98  | 74.00  | -24.02 | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2420.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

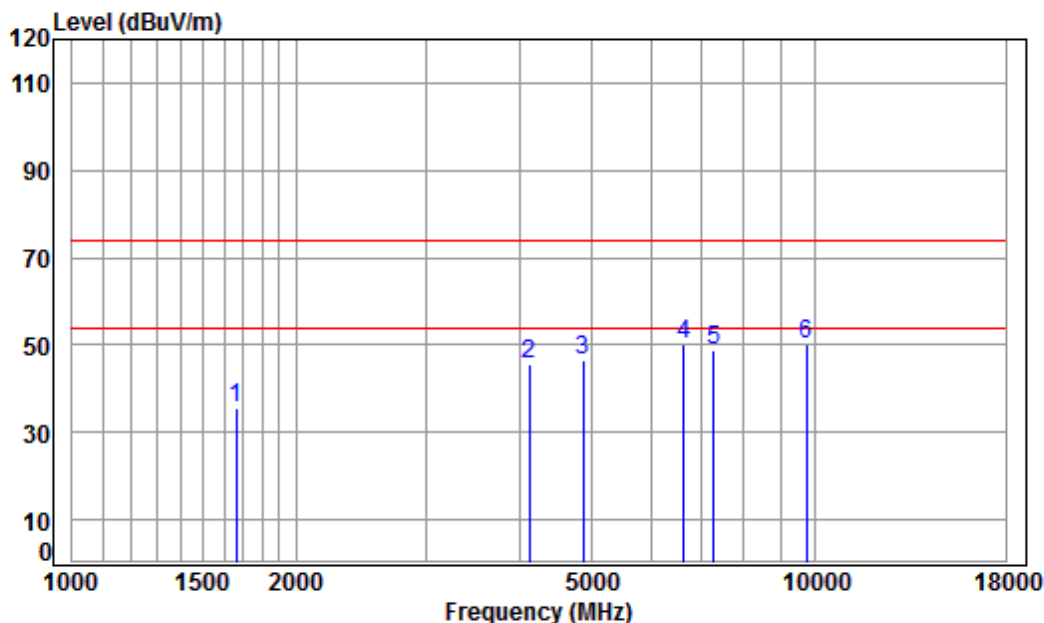
Mode : 2420.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1485.841 | 5.43       | 25.75      | 41.40         | 46.70      | 36.48  | 74.00  | -37.52 | peak   |
| 2    | 4242.641 | 7.27       | 33.15      | 42.37         | 47.52      | 45.57  | 74.00  | -28.43 | peak   |
| 3    | 4841.000 | 7.93       | 34.02      | 42.47         | 46.03      | 45.51  | 74.00  | -28.49 | peak   |
| 4 pp | 6621.375 | 11.19      | 35.67      | 41.13         | 44.45      | 50.18  | 74.00  | -23.82 | peak   |
| 5    | 7261.500 | 10.06      | 36.11      | 40.67         | 42.04      | 47.54  | 74.00  | -26.46 | peak   |
| 6    | 9682.000 | 10.78      | 37.71      | 37.63         | 38.72      | 49.58  | 74.00  | -24.42 | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2430.5MHz;



Condition: 3m HORIZONTAL

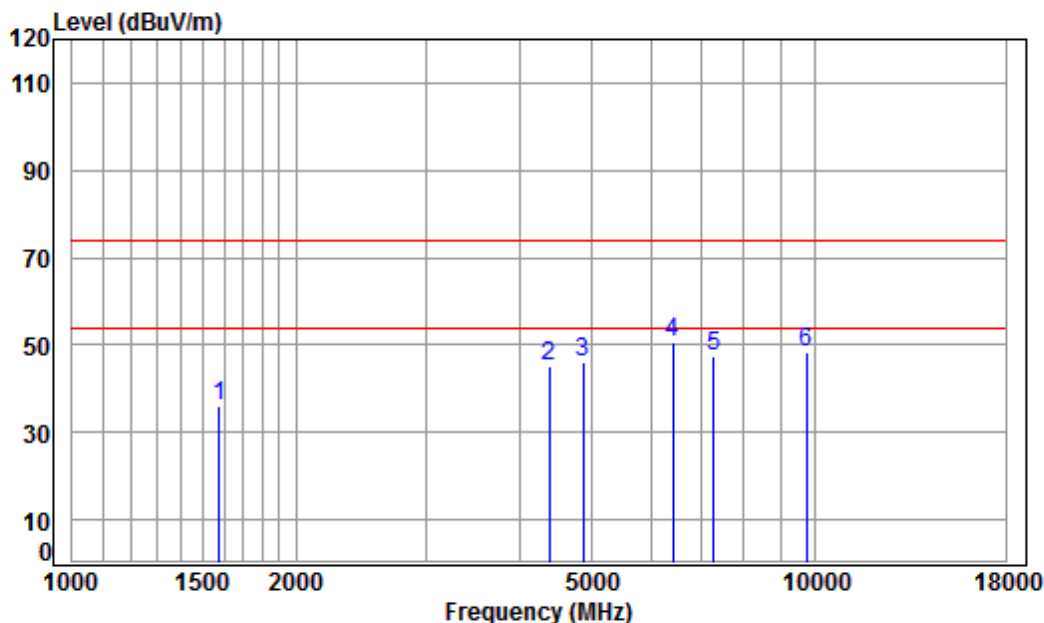
Job No : 04177CR

Mode : 2430.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1663.137 | 5.27       | 26.52      | 41.51               | 45.12      | 35.40  | 74.00      | -38.60     | peak   |
| 2    | 4121.768 | 7.13       | 32.93      | 42.35               | 47.83      | 45.54  | 74.00      | -28.46     | peak   |
| 3    | 4861.000 | 7.95       | 34.04      | 42.48               | 47.01      | 46.52  | 74.00      | -27.48     | peak   |
| 4 pp | 6640.542 | 11.13      | 35.69      | 41.11               | 44.44      | 50.15  | 74.00      | -23.85     | peak   |
| 5    | 7291.500 | 10.05      | 36.14      | 40.65               | 43.13      | 48.67  | 74.00      | -25.33     | peak   |
| 6    | 9722.000 | 10.80      | 37.74      | 37.58               | 39.06      | 50.02  | 74.00      | -23.98     | peak   |

Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2430.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

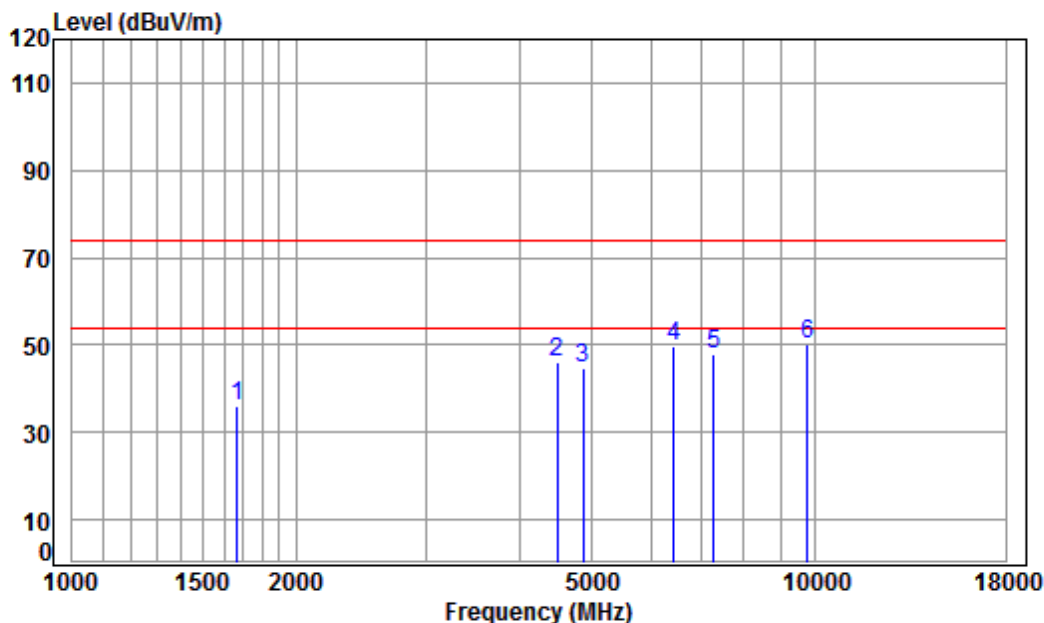
Mode : 2430.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1578.822 | 5.38       | 26.16      | 41.46               | 46.15      | 36.23  | 74.00      | -37.77     | peak   |
| 2    | 4379.699 | 7.43       | 33.39      | 42.40               | 46.90      | 45.32  | 74.00      | -28.68     | peak   |
| 3    | 4861.000 | 7.95       | 34.04      | 42.48               | 46.59      | 46.10  | 74.00      | -27.90     | peak   |
| 4 pp | 6432.732 | 11.41      | 35.54      | 41.27               | 44.89      | 50.57  | 74.00      | -23.43     | peak   |
| 5    | 7291.500 | 10.05      | 36.14      | 40.65               | 41.85      | 47.39  | 74.00      | -26.61     | peak   |
| 6    | 9722.000 | 10.80      | 37.74      | 37.58               | 37.29      | 48.25  | 74.00      | -25.75     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2434.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

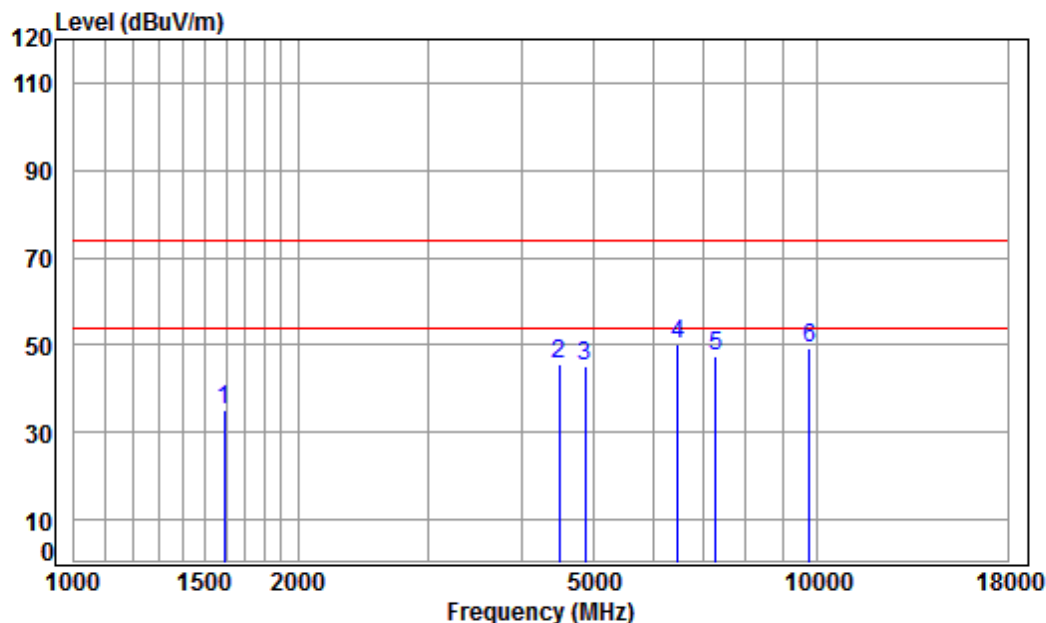
Mode : 2434.5 TX RSE

Note : 20M ANT0

|   | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|   | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 1667.951 | 5.27       | 26.54      | 41.51               | 45.75      | 36.05  | 74.00      | -37.95     | peak   |
| 2 | 4495.125 | 7.55       | 33.59      | 42.42               | 47.31      | 46.03  | 74.00      | -27.97     | peak   |
| 3 | 4869.000 | 7.96       | 34.05      | 42.48               | 45.38      | 44.91  | 74.00      | -29.09     | peak   |
| 4 | 6451.353 | 11.45      | 35.55      | 41.25               | 43.82      | 49.57  | 74.00      | -24.43     | peak   |
| 5 | 7303.500 | 10.05      | 36.15      | 40.65               | 42.25      | 47.80  | 74.00      | -26.20     | peak   |
| 6 | 9738.000 | 10.81      | 37.74      | 37.56               | 39.08      | 50.07  | 74.00      | -23.93     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2434.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

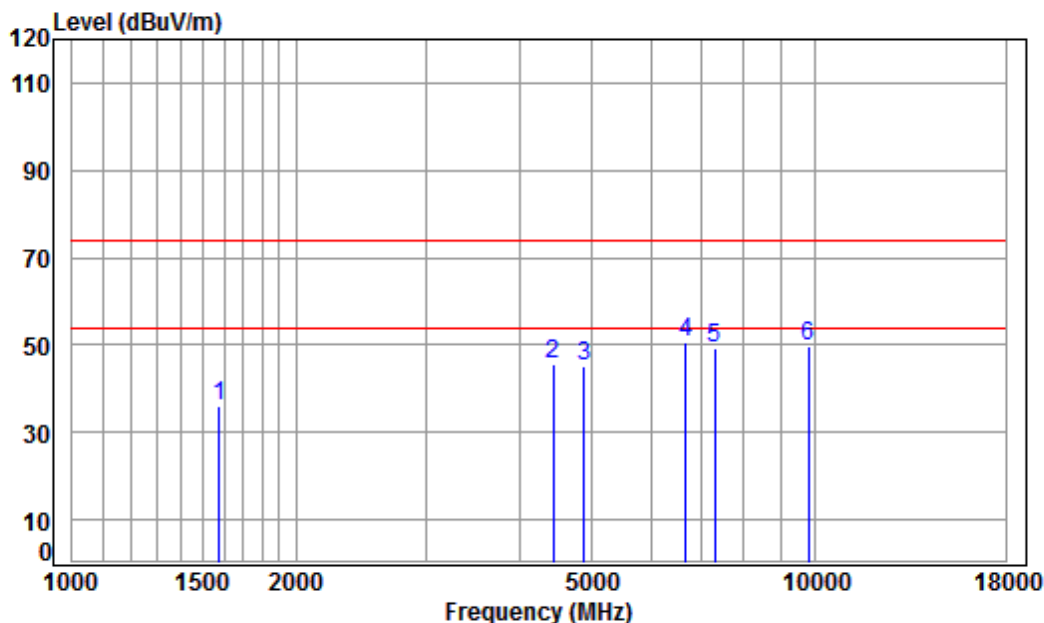
Mode : 2434.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1592.571 | 5.36       | 26.22      | 41.47         | 45.10      | 35.21  | 74.00      | -38.79     | peak   |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42         | 46.82      | 45.54  | 74.00      | -28.46     | peak   |
| 3    | 4869.000 | 7.96       | 34.05      | 42.48         | 45.55      | 45.08  | 74.00      | -28.92     | peak   |
| 4 pp | 6488.754 | 11.52      | 35.59      | 41.22         | 44.38      | 50.27  | 74.00      | -23.73     | peak   |
| 5    | 7303.500 | 10.05      | 36.15      | 40.65         | 42.03      | 47.58  | 74.00      | -26.42     | peak   |
| 6    | 9738.000 | 10.81      | 37.74      | 37.56         | 38.49      | 49.48  | 74.00      | -24.52     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2441.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

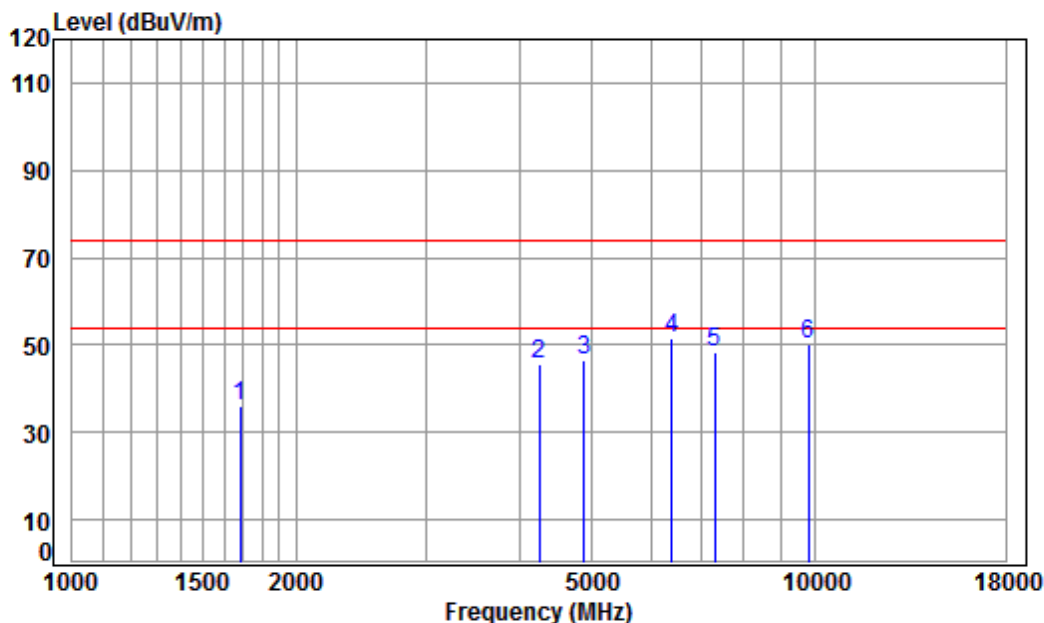
Mode : 2441.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1578.822 | 5.38       | 26.16      | 41.46         | 45.74      | 35.82  | 74.00      | -38.18     | peak   |
| 2    | 4443.453 | 7.50       | 33.50      | 42.41         | 47.08      | 45.67  | 74.00      | -28.33     | peak   |
| 3    | 4883.000 | 7.97       | 34.07      | 42.48         | 45.68      | 45.24  | 74.00      | -28.76     | peak   |
| 4 pp | 6698.373 | 10.97      | 35.72      | 41.07         | 45.03      | 50.65  | 74.00      | -23.35     | peak   |
| 5    | 7324.500 | 10.04      | 36.16      | 40.63         | 43.60      | 49.17  | 74.00      | -24.83     | peak   |
| 6    | 9766.000 | 10.82      | 37.76      | 37.52         | 38.79      | 49.85  | 74.00      | -24.15     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2441.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

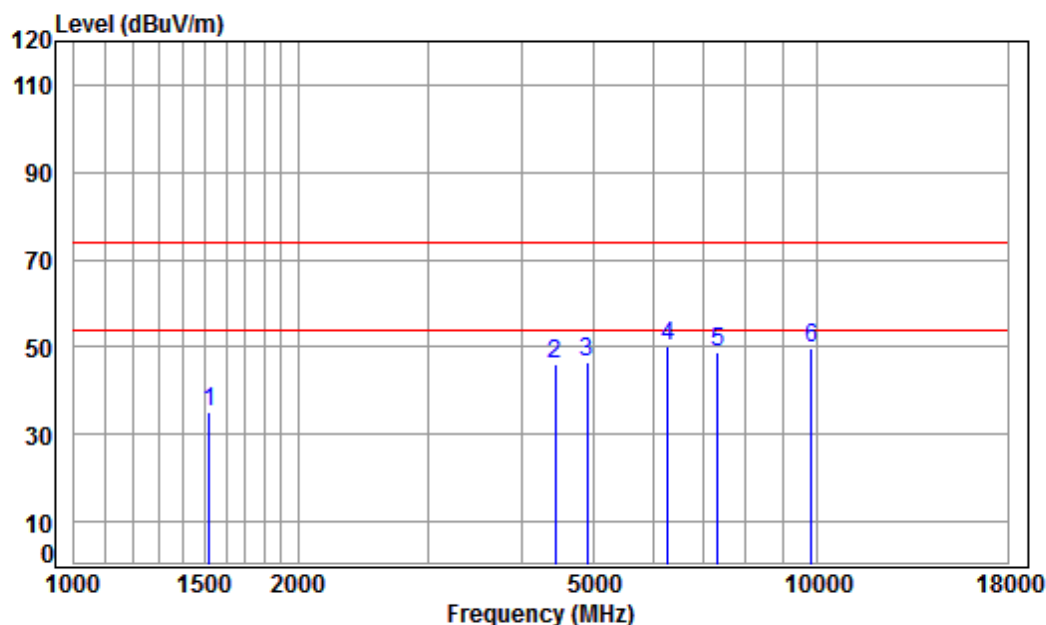
Mode : 2441.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1682.477 | 5.25       | 26.60      | 41.52         | 45.83      | 36.16  | 74.00  | -37.84 | peak   |
| 2    | 4254.921 | 7.28       | 33.17      | 42.37         | 47.49      | 45.57  | 74.00  | -28.43 | peak   |
| 3    | 4883.000 | 7.97       | 34.07      | 42.48         | 46.89      | 46.45  | 74.00  | -27.55 | peak   |
| 4 pp | 6414.167 | 11.38      | 35.52      | 41.28         | 45.83      | 51.45  | 74.00  | -22.55 | peak   |
| 5    | 7324.500 | 10.04      | 36.16      | 40.63         | 42.71      | 48.28  | 74.00  | -25.72 | peak   |
| 6    | 9766.000 | 10.82      | 37.76      | 37.52         | 39.12      | 50.18  | 74.00  | -23.82 | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2448.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

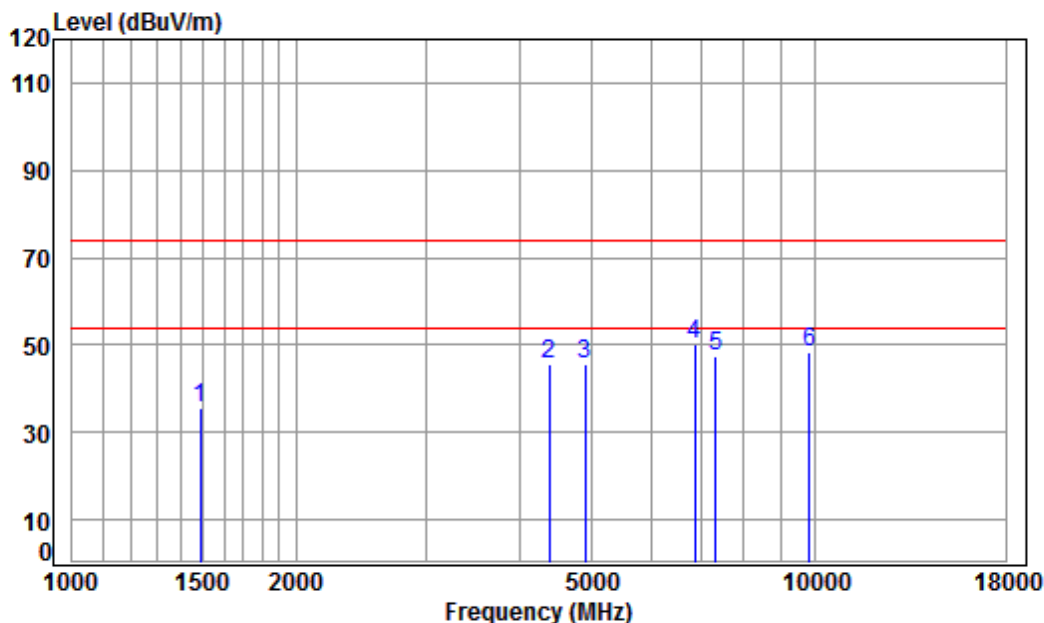
Mode : 2448.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1520.598 | 5.45       | 25.89      | 41.42               | 45.28      | 35.20  | 74.00      | -38.80     | peak   |
| 2    | 4443.453 | 7.50       | 33.50      | 42.41               | 47.39      | 45.98  | 74.00      | -28.02     | peak   |
| 3    | 4897.000 | 7.99       | 34.08      | 42.48               | 46.77      | 46.36  | 74.00      | -27.64     | peak   |
| 4 pp | 6285.695 | 11.13      | 35.39      | 41.38               | 45.04      | 50.18  | 74.00      | -23.82     | peak   |
| 5    | 7345.500 | 10.04      | 36.18      | 40.62               | 43.23      | 48.83  | 74.00      | -25.17     | peak   |
| 6    | 9794.000 | 10.84      | 37.78      | 37.48               | 38.37      | 49.51  | 74.00      | -24.49     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2448.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

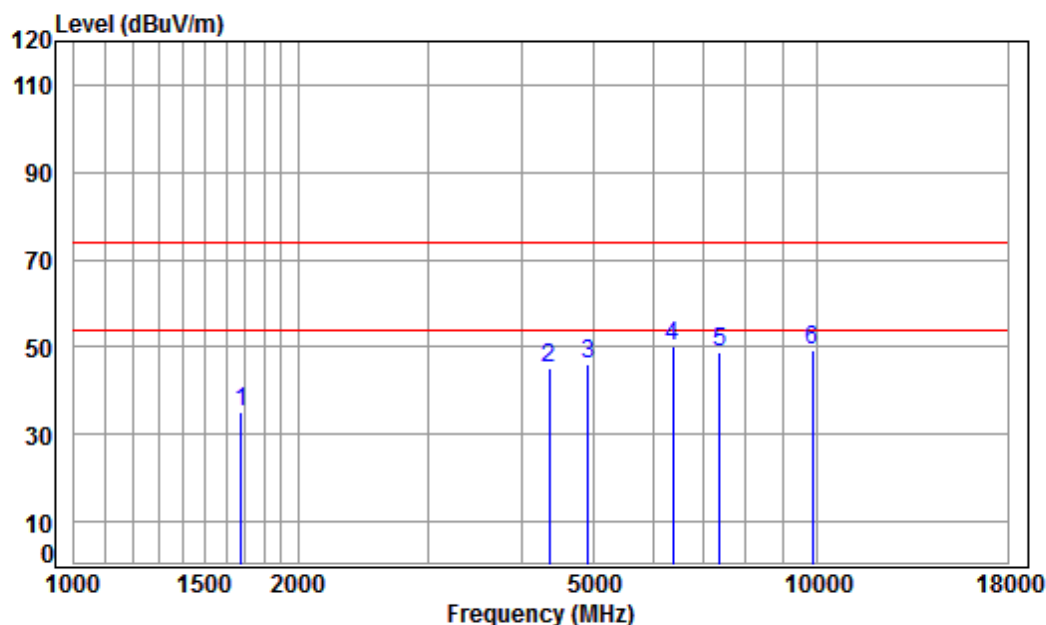
Mode : 2448.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1485.841 | 5.43       | 25.75      | 41.40         | 45.75      | 35.53  | 74.00      | -38.47     | peak   |
| 2    | 4379.699 | 7.43       | 33.39      | 42.40         | 47.17      | 45.59  | 74.00      | -28.41     | peak   |
| 3    | 4897.000 | 7.99       | 34.08      | 42.48         | 46.19      | 45.78  | 74.00      | -28.22     | peak   |
| 4 pp | 6874.906 | 10.47      | 35.83      | 40.94         | 44.80      | 50.16  | 74.00      | -23.84     | peak   |
| 5    | 7345.500 | 10.04      | 36.18      | 40.62         | 41.86      | 47.46  | 74.00      | -26.54     | peak   |
| 6    | 9794.000 | 10.84      | 37.78      | 37.48         | 37.38      | 48.52  | 74.00      | -25.48     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2458.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

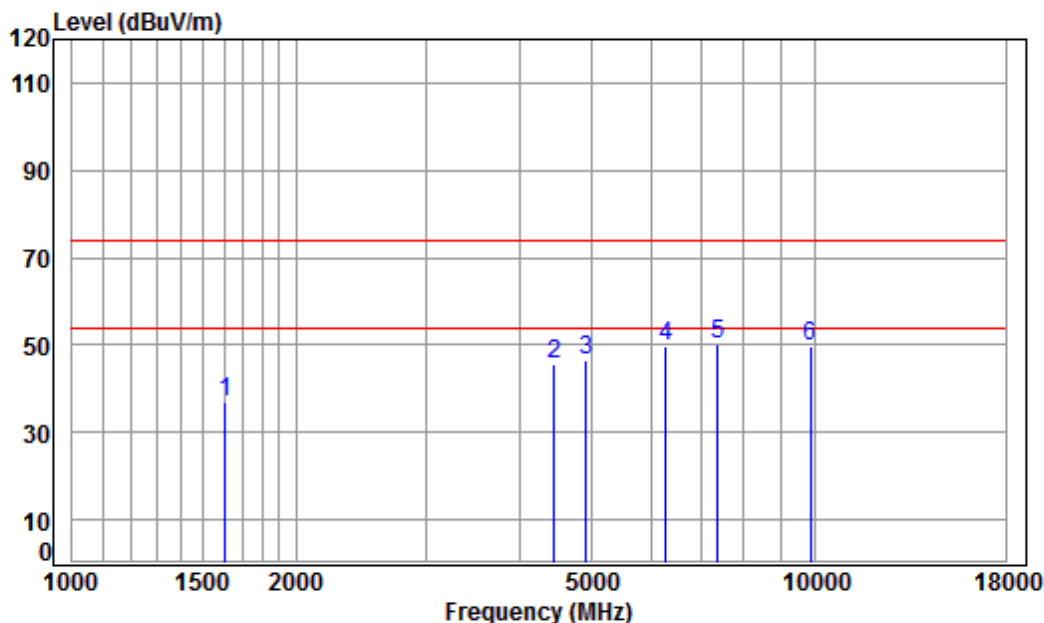
Mode : 2458.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1677.621 | 5.25       | 26.58      | 41.52         | 44.97      | 35.28  | 74.00      | -38.72     | peak   |
| 2    | 4354.454 | 7.40       | 33.35      | 42.39         | 46.98      | 45.34  | 74.00      | -28.66     | peak   |
| 3    | 4917.000 | 8.01       | 34.10      | 42.49         | 46.32      | 45.94  | 74.00      | -28.06     | peak   |
| 4 pp | 6395.654 | 11.34      | 35.50      | 41.30         | 44.44      | 49.98  | 74.00      | -24.02     | peak   |
| 5    | 7375.500 | 10.03      | 36.20      | 40.60         | 43.26      | 48.89  | 74.00      | -25.11     | peak   |
| 6    | 9834.000 | 10.86      | 37.80      | 37.43         | 38.03      | 49.26  | 74.00      | -24.74     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2458.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

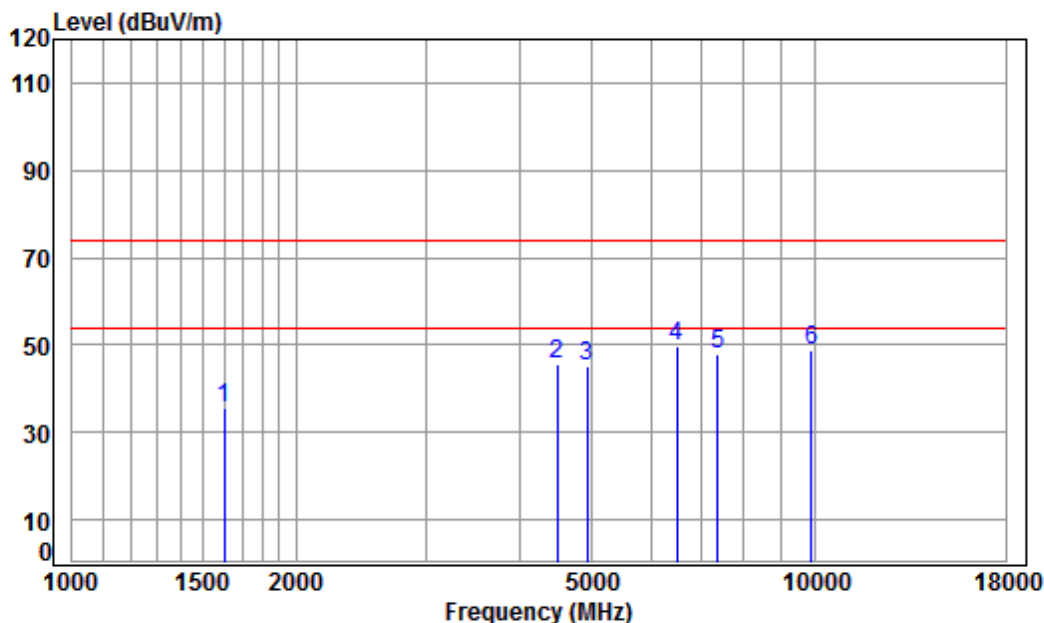
Mode : 2458.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1606.441 | 5.34       | 26.28      | 41.47         | 46.60      | 36.75  | 74.00      | -37.25     | peak   |
| 2    | 4456.315 | 7.51       | 33.53      | 42.41         | 46.84      | 45.47  | 74.00      | -28.53     | peak   |
| 3    | 4917.000 | 8.01       | 34.10      | 42.49         | 47.10      | 46.72  | 74.00      | -27.28     | peak   |
| 4    | 6285.695 | 11.13      | 35.39      | 41.38         | 44.67      | 49.81  | 74.00      | -24.19     | peak   |
| 5 pp | 7375.500 | 10.03      | 36.20      | 40.60         | 44.76      | 50.39  | 74.00      | -23.61     | peak   |
| 6    | 9834.000 | 10.86      | 37.80      | 37.43         | 38.45      | 49.68  | 74.00      | -24.32     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2464.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

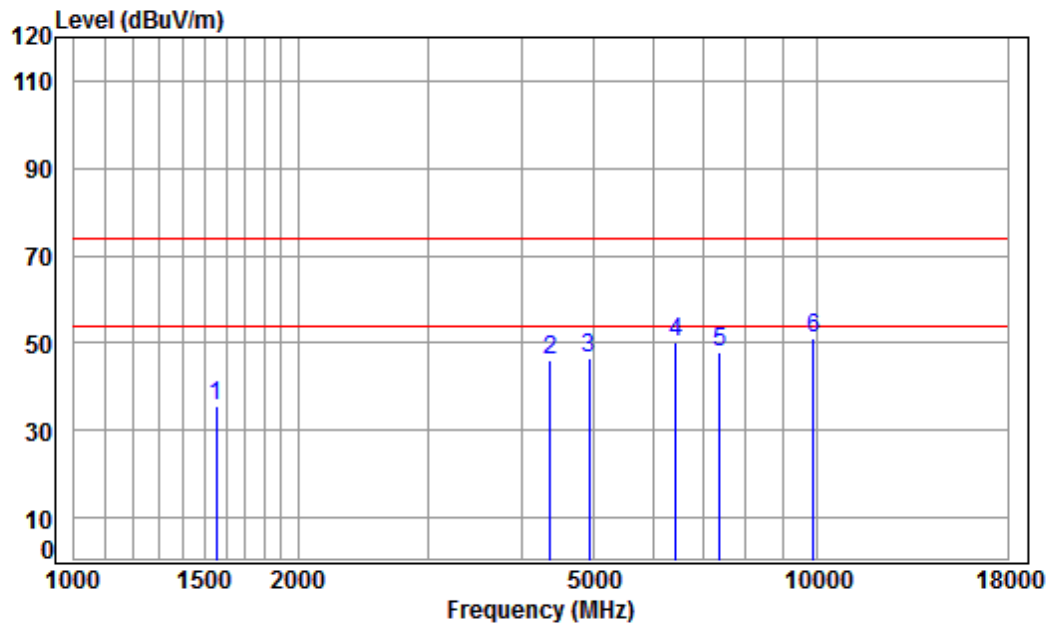
Mode : 2464.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1601.804 | 5.35       | 26.26      | 41.47         | 45.22      | 35.36  | 74.00      | -38.64     | peak   |
| 2    | 4495.125 | 7.55       | 33.59      | 42.42         | 46.87      | 45.59  | 74.00      | -28.41     | peak   |
| 3    | 4929.000 | 8.02       | 34.12      | 42.49         | 45.44      | 45.09  | 74.00      | -28.91     | peak   |
| 4 pp | 6507.536 | 11.52      | 35.60      | 41.21         | 43.76      | 49.67  | 74.00      | -24.33     | peak   |
| 5    | 7393.500 | 10.03      | 36.22      | 40.59         | 42.45      | 48.11  | 74.00      | -25.89     | peak   |
| 6    | 9858.000 | 10.87      | 37.82      | 37.39         | 37.37      | 48.67  | 74.00      | -25.33     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2464.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

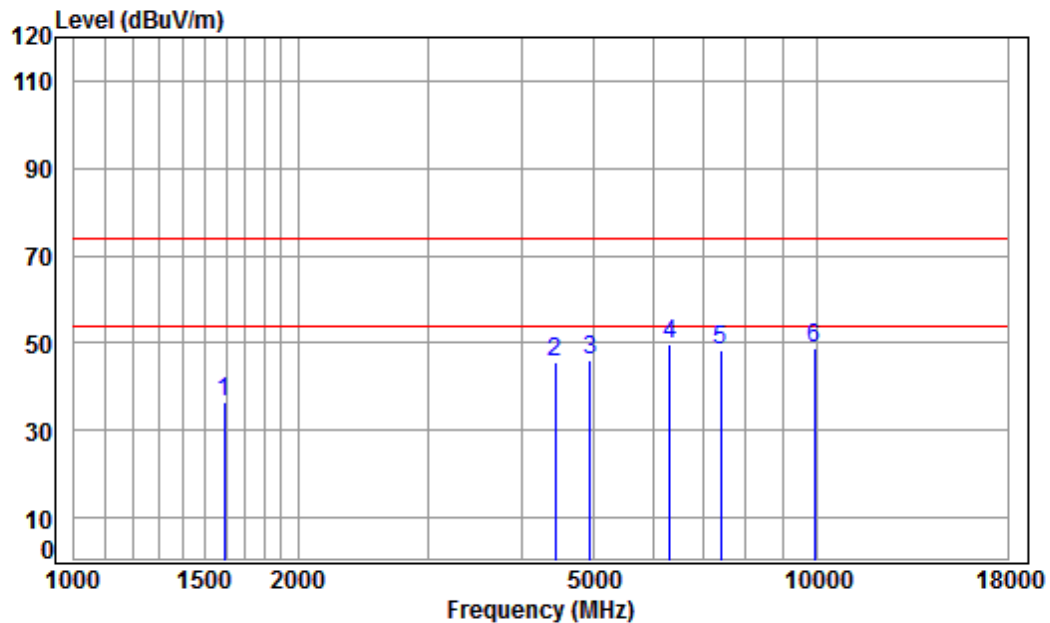
Mode : 2464.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over   | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|--------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB     |        |
| 1    | 1551.677 | 5.41       | 26.04      | 41.44         | 45.75      | 35.76  | 74.00  | -38.24 | peak   |
| 2    | 4367.058 | 7.41       | 33.37      | 42.39         | 47.78      | 46.17  | 74.00  | -27.83 | peak   |
| 3    | 4929.000 | 8.02       | 34.12      | 42.49         | 46.97      | 46.62  | 74.00  | -27.38 | peak   |
| 4    | 6451.353 | 11.45      | 35.55      | 41.25         | 44.43      | 50.18  | 74.00  | -23.82 | peak   |
| 5    | 7393.500 | 10.03      | 36.22      | 40.59         | 42.09      | 47.75  | 74.00  | -26.25 | peak   |
| 6 pp | 9858.000 | 10.87      | 37.82      | 37.39         | 39.81      | 51.11  | 74.00  | -22.89 | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2471.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

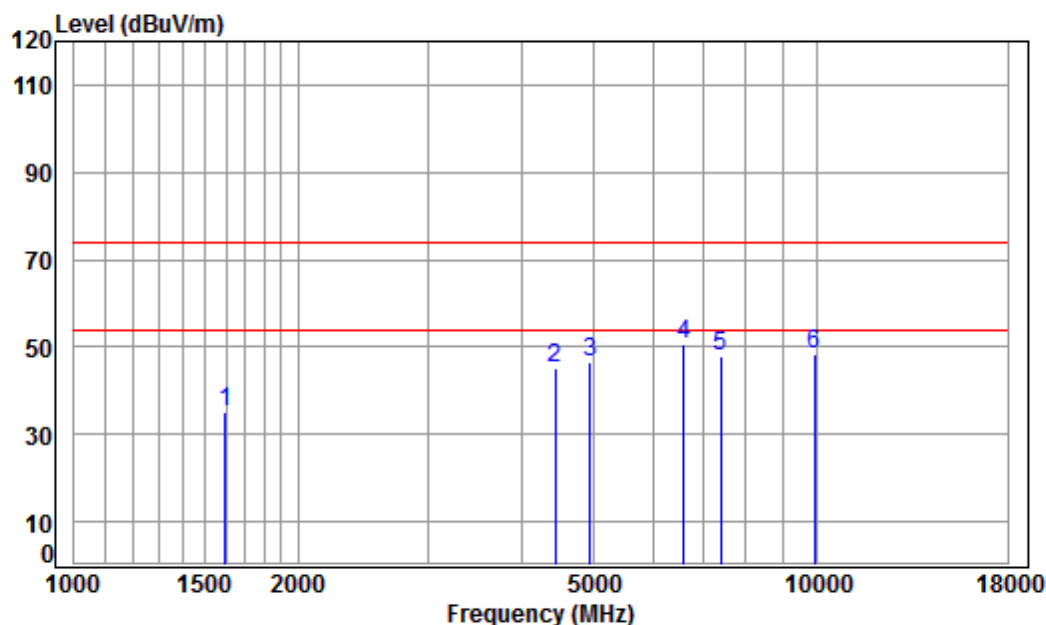
Mode : 2471.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1592.571 | 5.36       | 26.22      | 41.47               | 46.61      | 36.72  | 74.00      | -37.28     | peak   |
| 2    | 4430.628 | 7.48       | 33.48      | 42.41               | 47.05      | 45.60  | 74.00      | -28.40     | peak   |
| 3    | 4943.000 | 8.03       | 34.13      | 42.49               | 46.29      | 45.96  | 74.00      | -28.04     | peak   |
| 4 pp | 6322.136 | 11.20      | 35.43      | 41.35               | 44.33      | 49.61  | 74.00      | -24.39     | peak   |
| 5    | 7414.500 | 10.02      | 36.23      | 40.57               | 42.46      | 48.14  | 74.00      | -25.86     | peak   |
| 6    | 9886.000 | 10.88      | 37.83      | 37.35               | 37.29      | 48.65  | 74.00      | -25.35     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2471.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

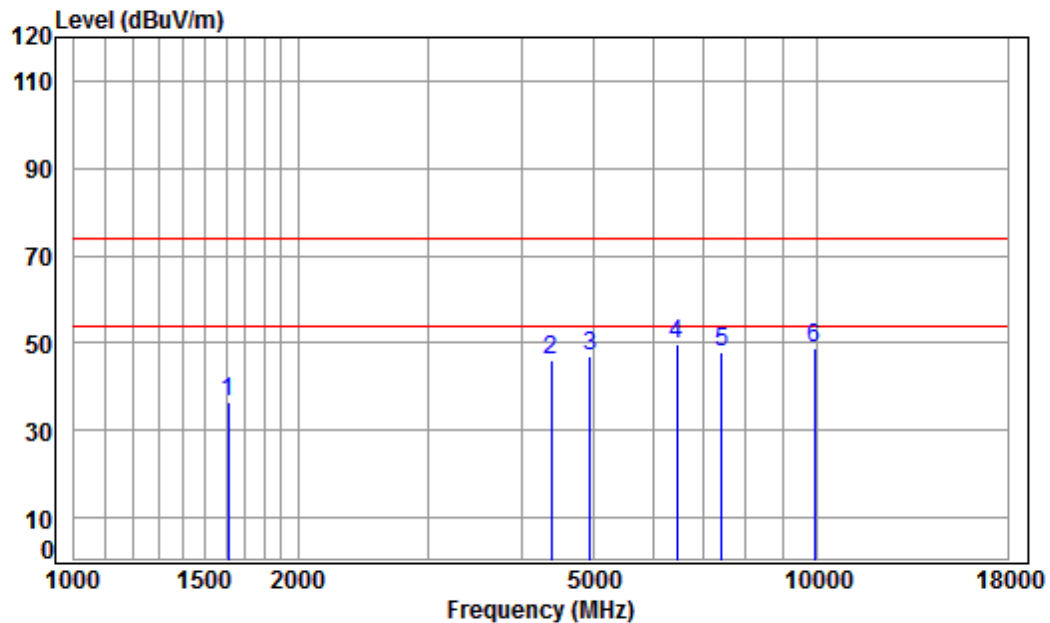
Mode : 2471.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamplifier Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB                  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1597.181 | 5.35       | 26.24      | 41.47               | 44.87      | 34.99  | 74.00      | -39.01     | peak   |
| 2    | 4443.453 | 7.50       | 33.50      | 42.41               | 46.80      | 45.39  | 74.00      | -28.61     | peak   |
| 3    | 4943.000 | 8.03       | 34.13      | 42.49               | 46.68      | 46.35  | 74.00      | -27.65     | peak   |
| 4 pp | 6602.265 | 11.24      | 35.66      | 41.14               | 44.76      | 50.52  | 74.00      | -23.48     | peak   |
| 5    | 7414.500 | 10.02      | 36.23      | 40.57               | 42.35      | 48.03  | 74.00      | -25.97     | peak   |
| 6    | 9886.000 | 10.88      | 37.83      | 37.35               | 37.16      | 48.52  | 74.00      | -25.48     | peak   |



Mode:b; Polarization:Horizontal; Bandwidth:20MHz; Channel:2472.5MHz;



Condition: 3m HORIZONTAL

Job No : 04177CR

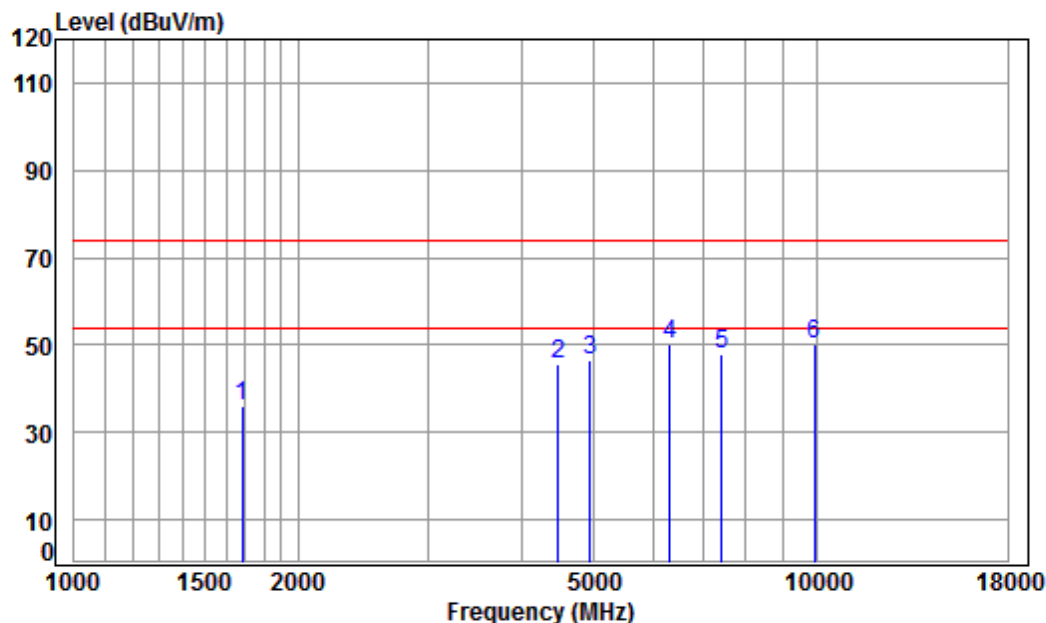
Mode : 2472.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|------------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 1611.091 | 5.34       | 26.30      | 41.48         | 46.45      | 36.61  | 74.00      | -37.39     | peak   |
| 2    | 4379.699 | 7.43       | 33.39      | 42.40         | 47.50      | 45.92  | 74.00      | -28.08     | peak   |
| 3    | 4945.000 | 8.03       | 34.14      | 42.49         | 47.19      | 46.87  | 74.00      | -27.13     | peak   |
| 4 pp | 6470.026 | 11.48      | 35.57      | 41.24         | 44.07      | 49.88  | 74.00      | -24.12     | peak   |
| 5    | 7417.500 | 10.02      | 36.24      | 40.57         | 42.20      | 47.89  | 74.00      | -26.11     | peak   |
| 6    | 9890.000 | 10.89      | 37.84      | 37.35         | 37.52      | 48.90  | 74.00      | -25.10     | peak   |



Mode:b; Polarization:Vertical; Bandwidth:20MHz; Channel:2472.5MHz;



Condition: 3m VERTICAL

Job No : 04177CR

Mode : 2472.5 TX RSE

Note : 20M ANT0

|      | Freq     | Cable Loss | Ant Factor | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|--------|
|      | MHz      | dB         | dB/m       | dB            | dBuV       | dBuV/m | dBuV/m | dB         |        |
| 1    | 1682.477 | 5.25       | 26.60      | 41.52         | 45.56      | 35.89  | 74.00  | -38.11     | peak   |
| 2    | 4482.150 | 7.54       | 33.57      | 42.41         | 47.01      | 45.71  | 74.00  | -28.29     | peak   |
| 3    | 4945.000 | 8.03       | 34.14      | 42.49         | 46.94      | 46.62  | 74.00  | -27.38     | peak   |
| 4    | 6322.136 | 11.20      | 35.43      | 41.35         | 44.78      | 50.06  | 74.00  | -23.94     | peak   |
| 5    | 7417.500 | 10.02      | 36.24      | 40.57         | 42.24      | 47.93  | 74.00  | -26.07     | peak   |
| 6 pp | 9890.000 | 10.89      | 37.84      | 37.35         | 38.72      | 50.10  | 74.00  | -23.90     | peak   |

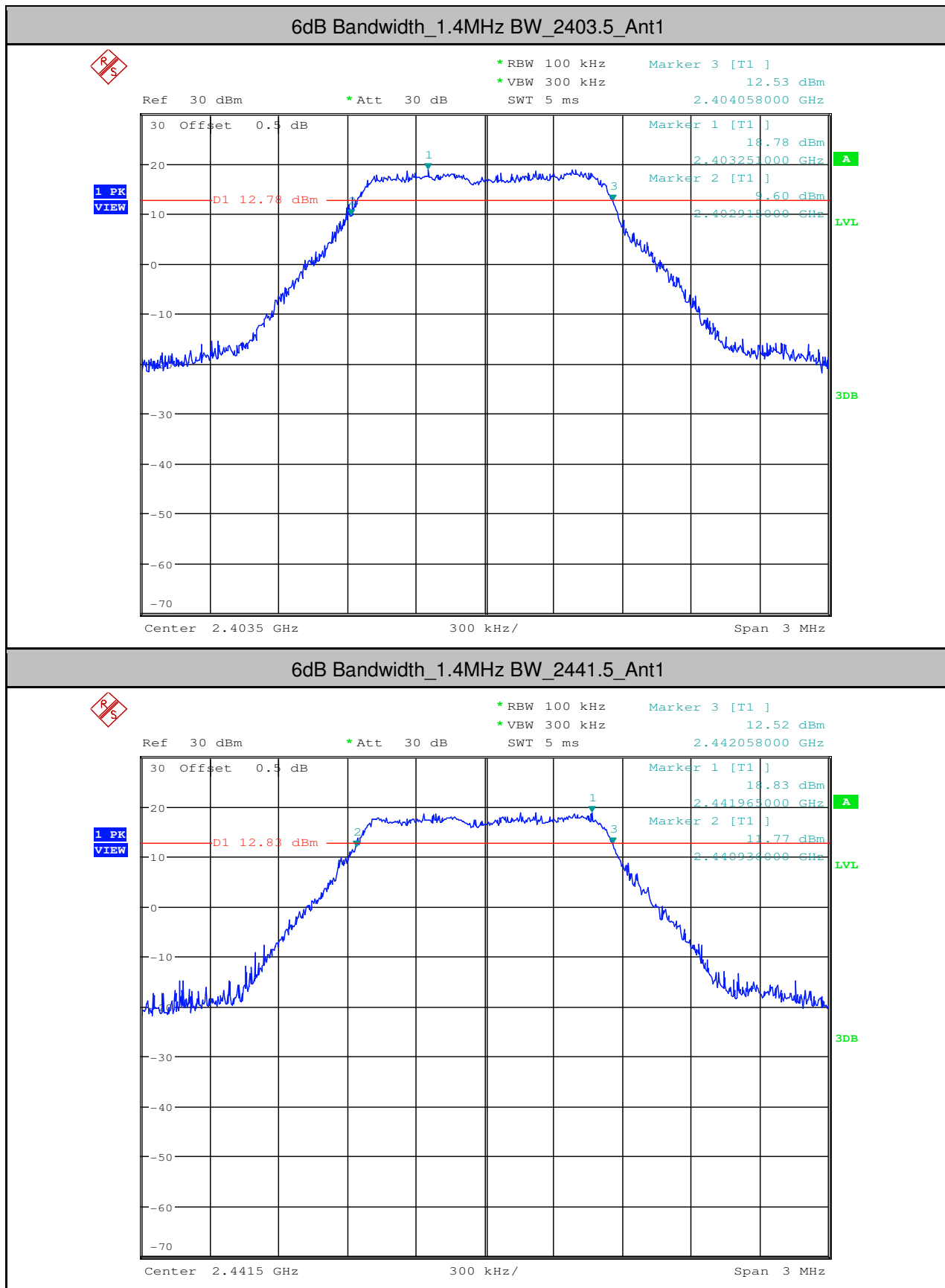


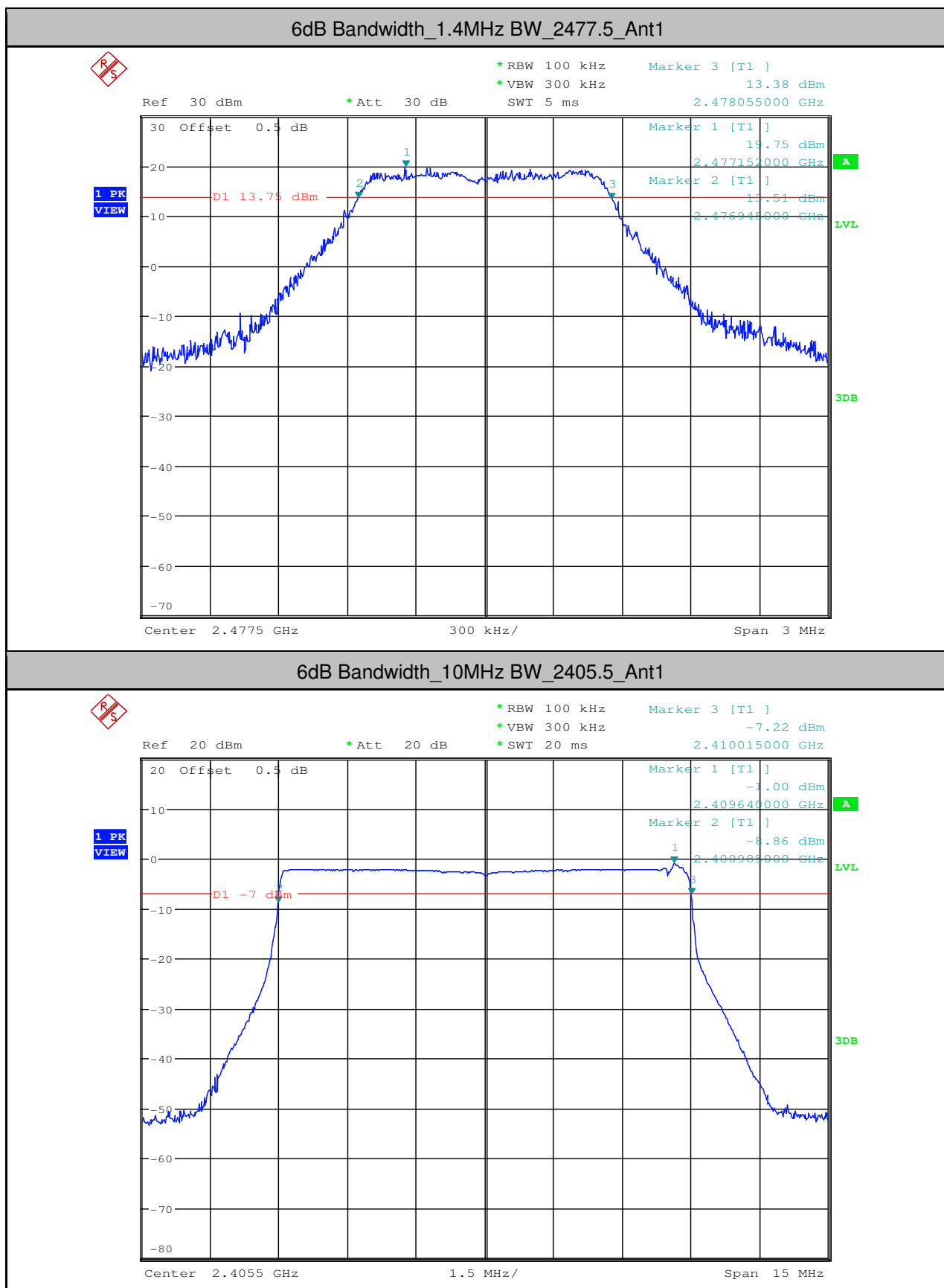
## 8 Appendix

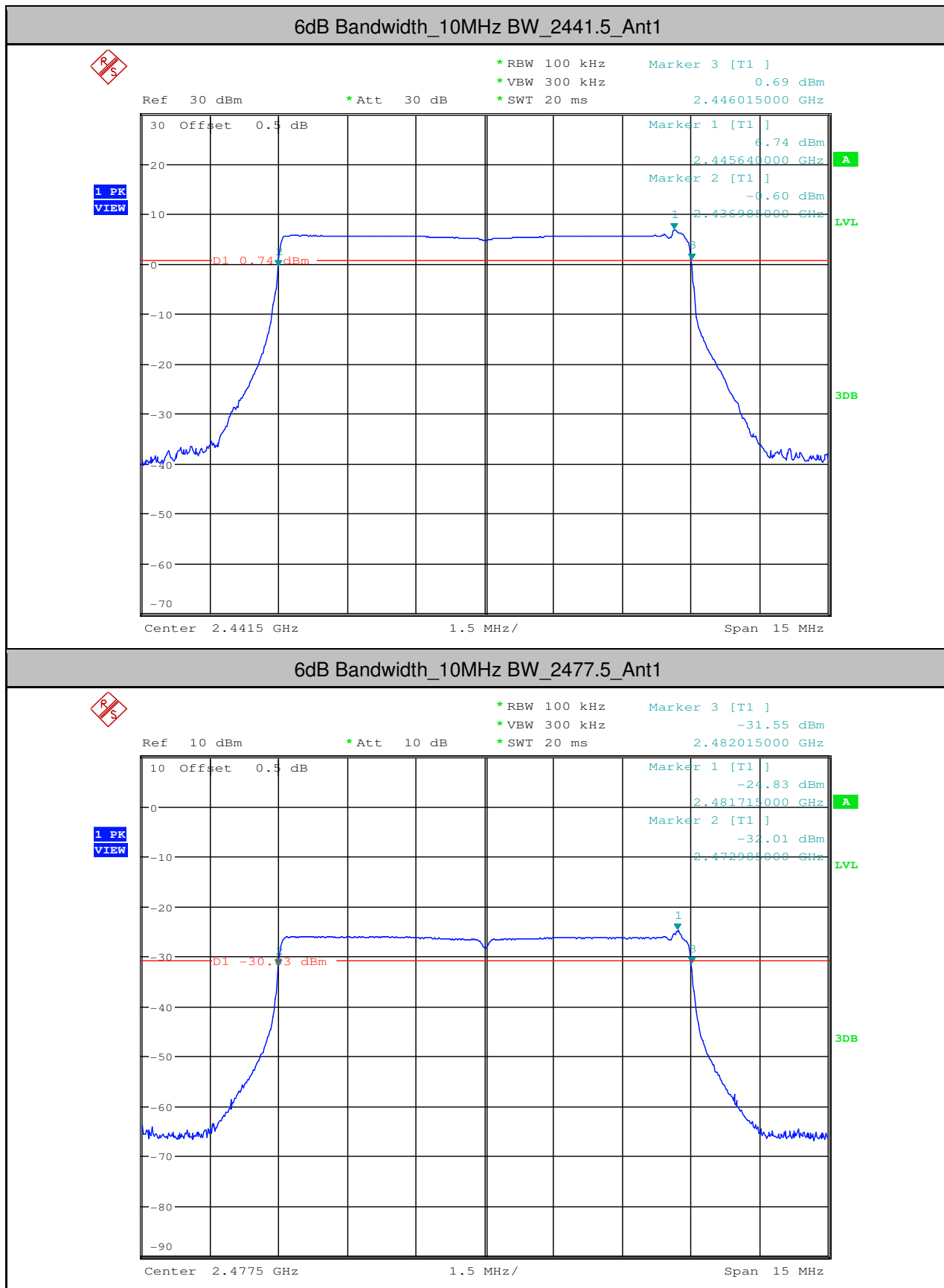
### 8.1 Appendix 15.247

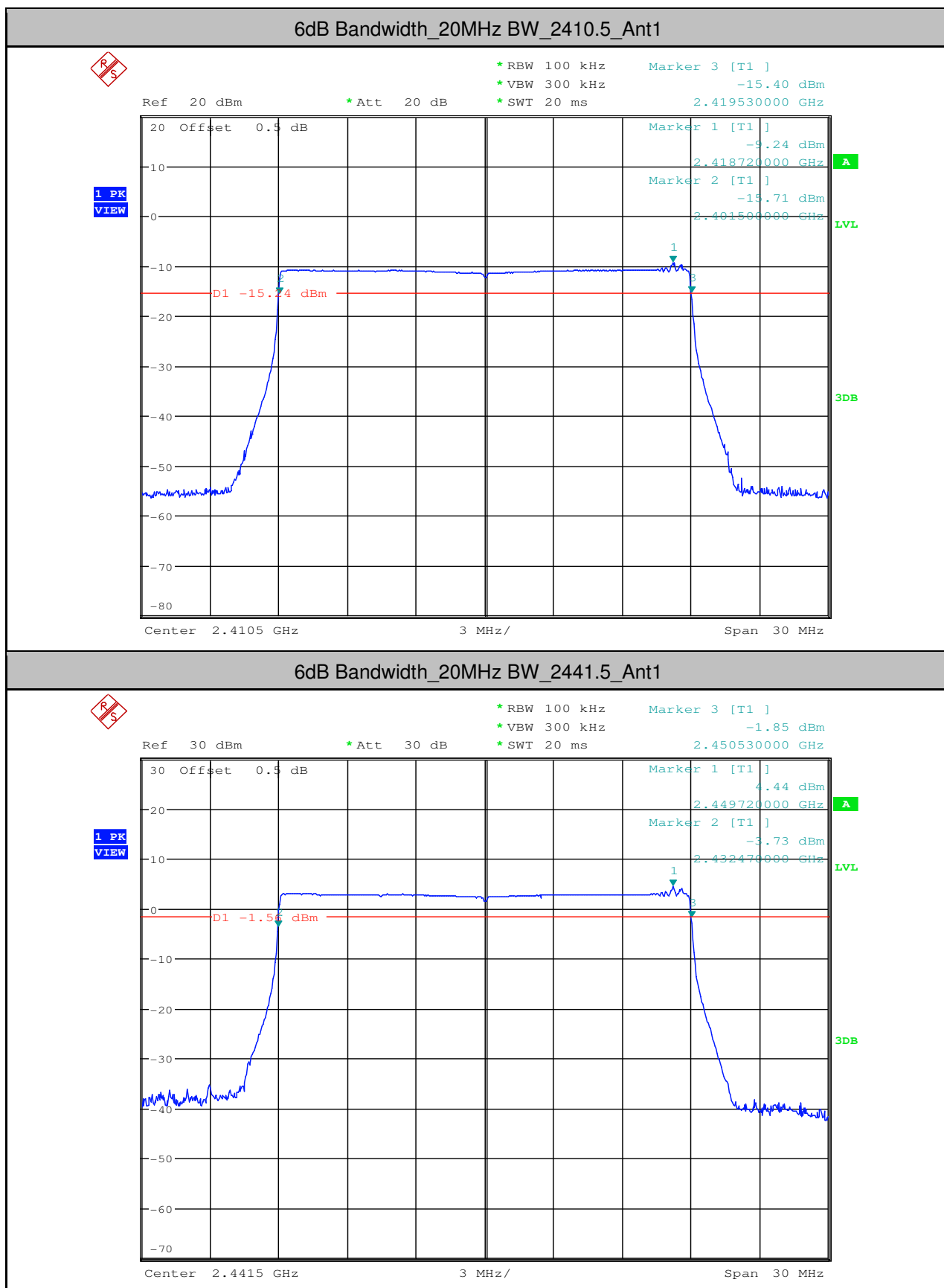
#### 1. 6dB Bandwidth

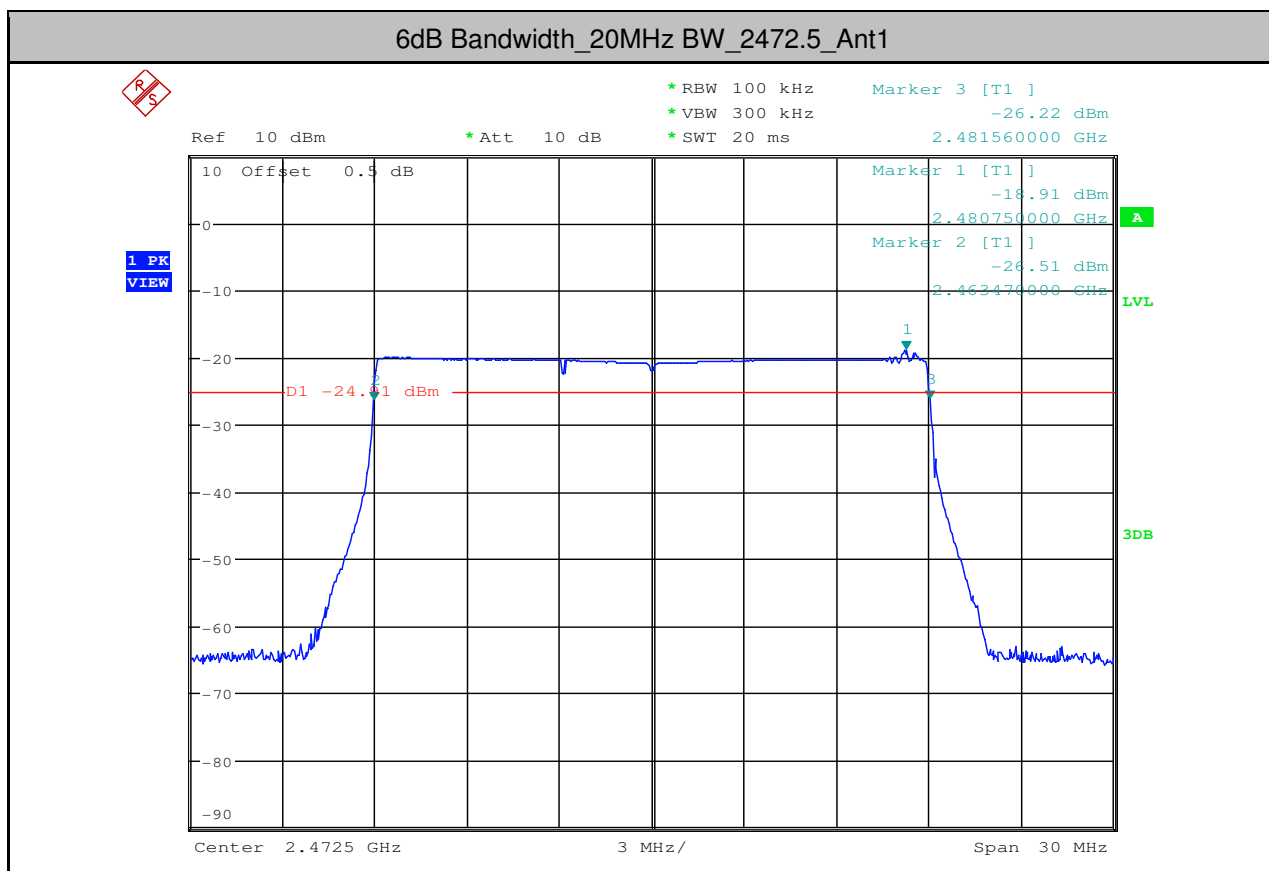
| Test Mode | Test Channel | Ant  | EBW [MHz] | Limit [MHz] | Verdict |
|-----------|--------------|------|-----------|-------------|---------|
| 1.4MHz BW | 2403.5       | Ant1 | 1.143     | $\geq 0.5$  | PASS    |
| 1.4MHz BW | 2441.5       | Ant1 | 1.122     | $\geq 0.5$  | PASS    |
| 1.4MHz BW | 2477.5       | Ant1 | 1.110     | $\geq 0.5$  | PASS    |
| 10MHz BW  | 2405.5       | Ant1 | 9.030     | $\geq 0.5$  | PASS    |
| 10MHz BW  | 2441.5       | Ant1 | 9.030     | $\geq 0.5$  | PASS    |
| 10MHz BW  | 2477.5       | Ant1 | 9.030     | $\geq 0.5$  | PASS    |
| 20MHz BW  | 2410.5       | Ant1 | 18.030    | $\geq 0.5$  | PASS    |
| 20MHz BW  | 2441.5       | Ant1 | 18.060    | $\geq 0.5$  | PASS    |
| 20MHz BW  | 2472.5       | Ant1 | 18.090    | $\geq 0.5$  | PASS    |









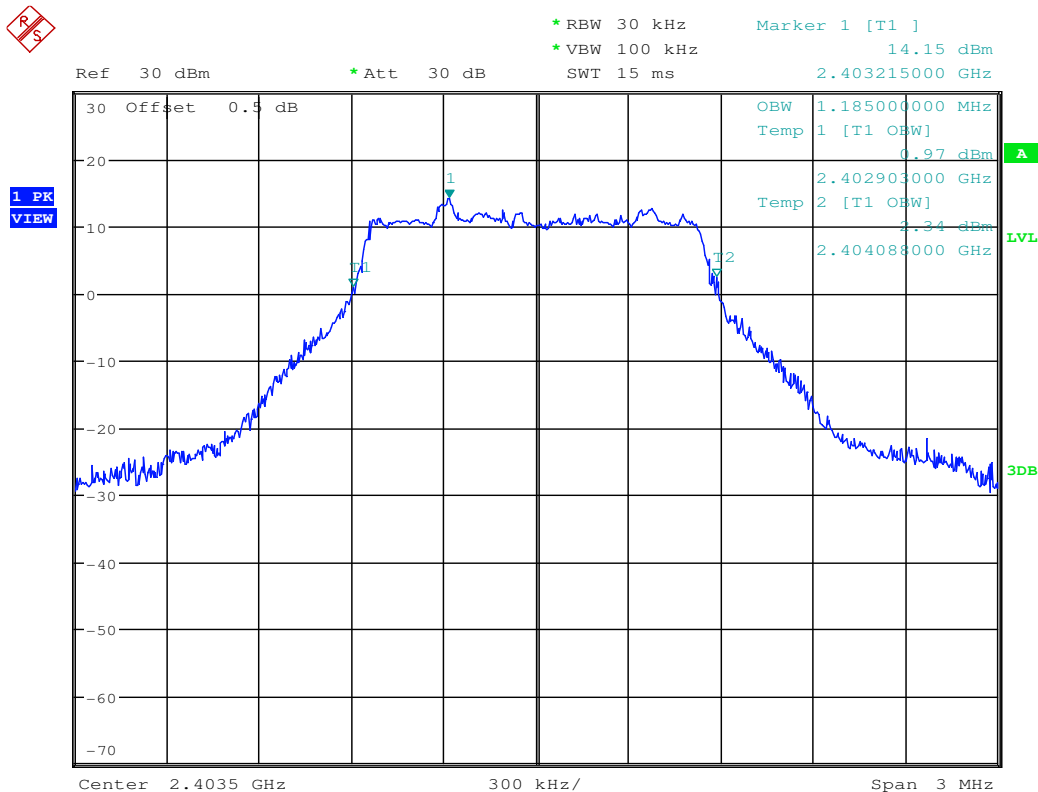




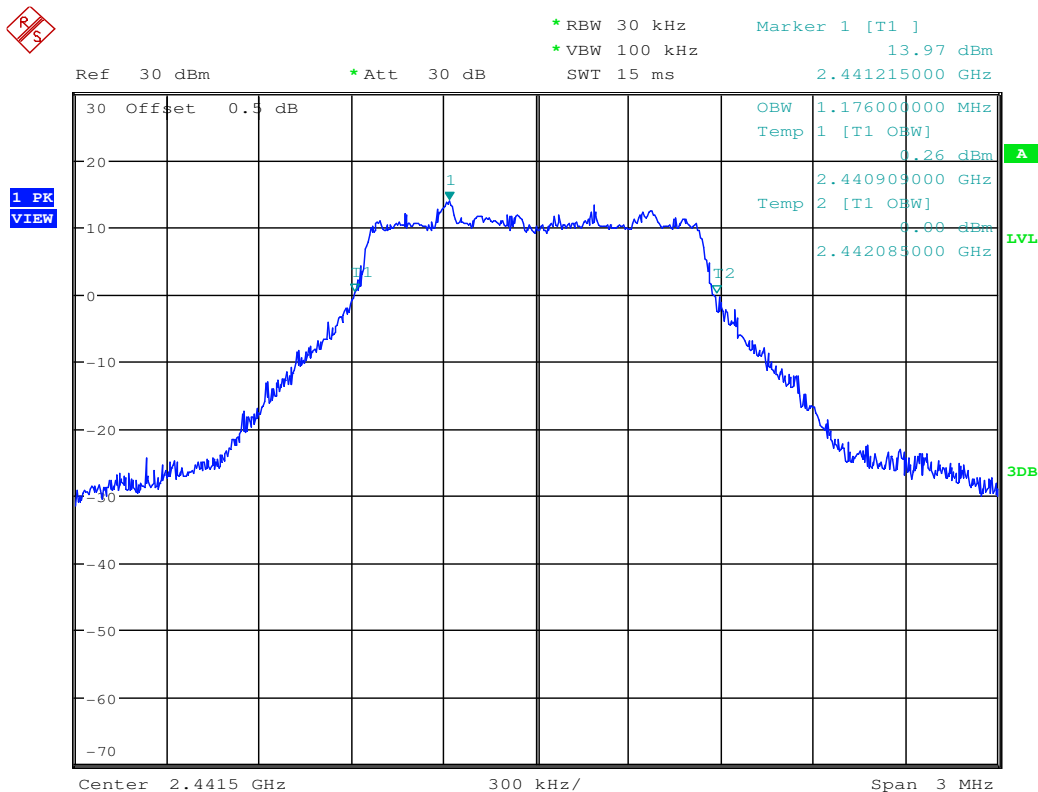
## 2.Occupied Bandwidth

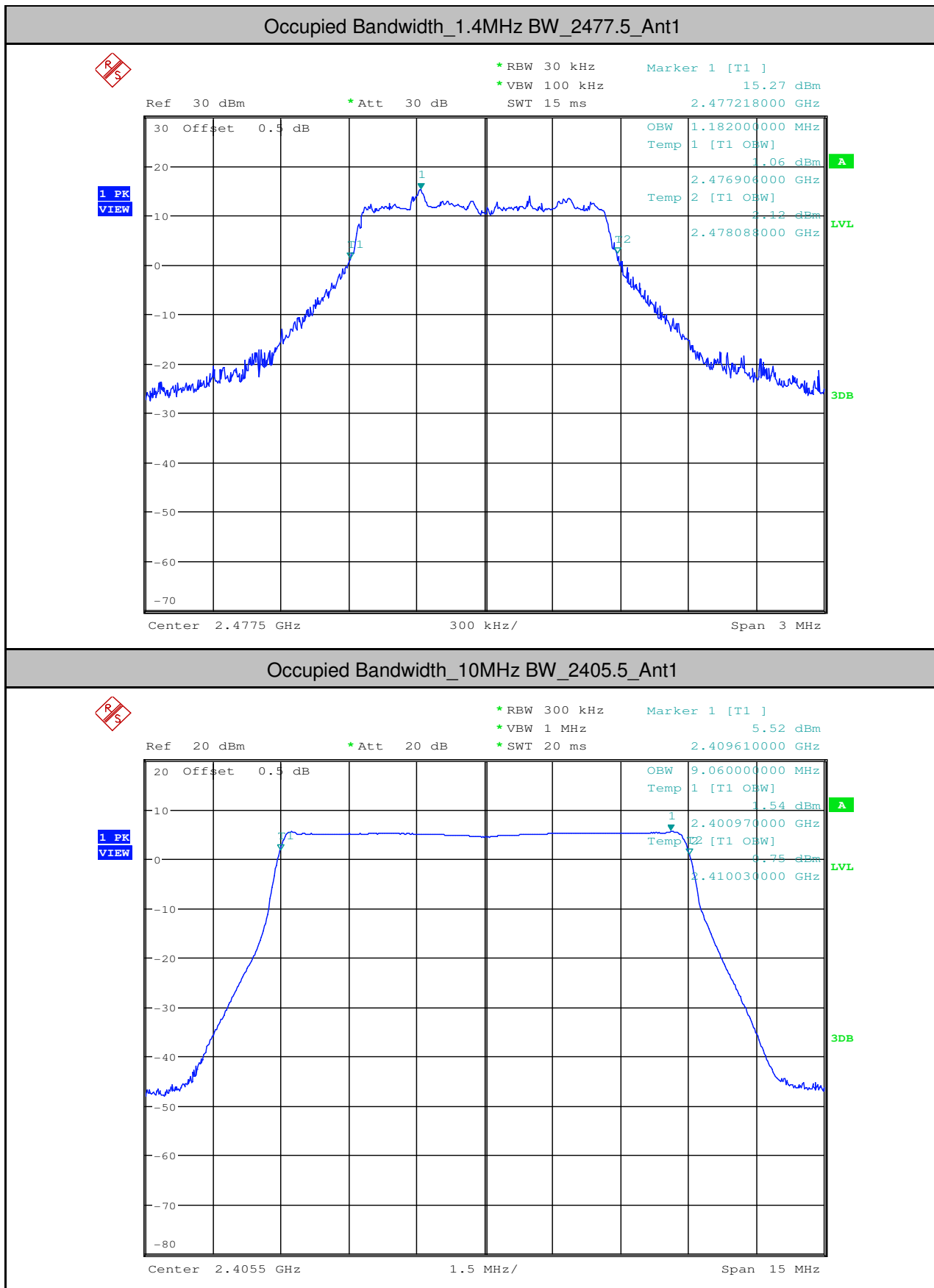
| Test Mode | Test Channel | Ant  | OBW [MHz] | Limit [MHz] | Verdict |
|-----------|--------------|------|-----------|-------------|---------|
| 1.4MHz BW | 2403.5       | Ant1 | 1.185     | ---         | PASS    |
| 1.4MHz BW | 2441.5       | Ant1 | 1.176     | ---         | PASS    |
| 1.4MHz BW | 2477.5       | Ant1 | 1.182     | ---         | PASS    |
| 10MHz BW  | 2405.5       | Ant1 | 9.060     | ---         | PASS    |
| 10MHz BW  | 2441.5       | Ant1 | 9.045     | ---         | PASS    |
| 10MHz BW  | 2477.5       | Ant1 | 9.045     | ---         | PASS    |
| 20MHz BW  | 2410.5       | Ant1 | 17.820    | ---         | PASS    |
| 20MHz BW  | 2441.5       | Ant1 | 17.850    | ---         | PASS    |
| 20MHz BW  | 2472.5       | Ant1 | 17.850    | ---         | PASS    |

## Occupied Bandwidth\_1.4MHz BW\_2403.5\_Ant1

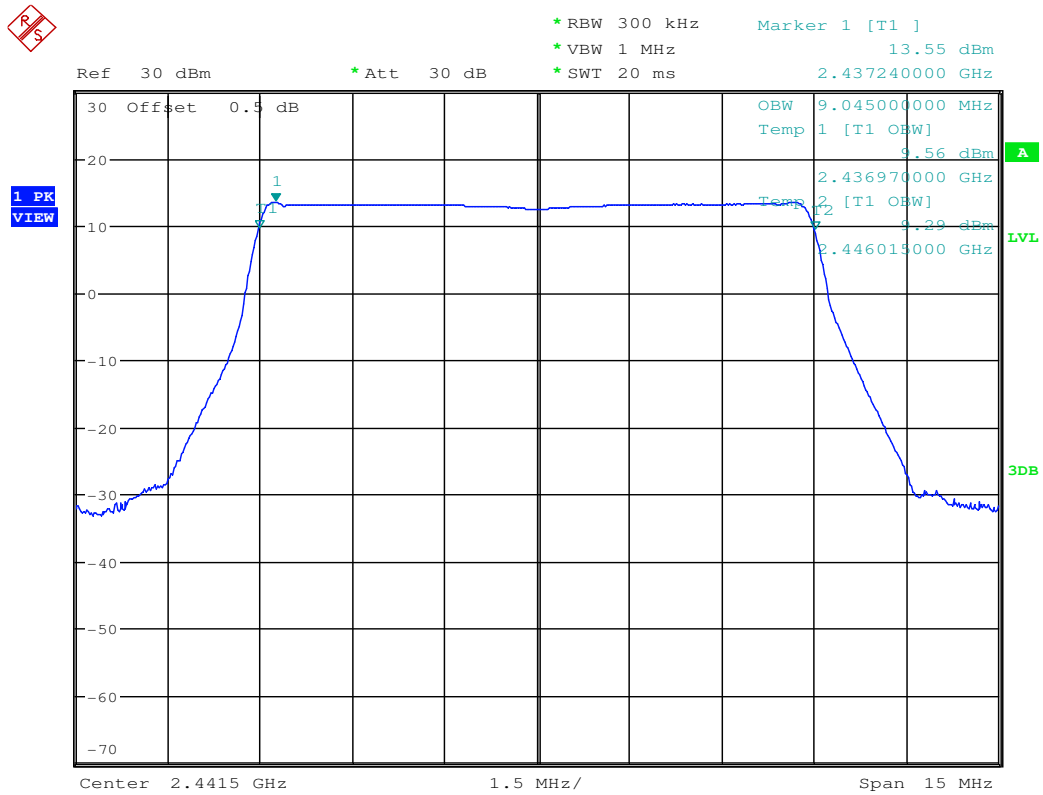


## Occupied Bandwidth\_1.4MHz BW\_2441.5\_Ant1

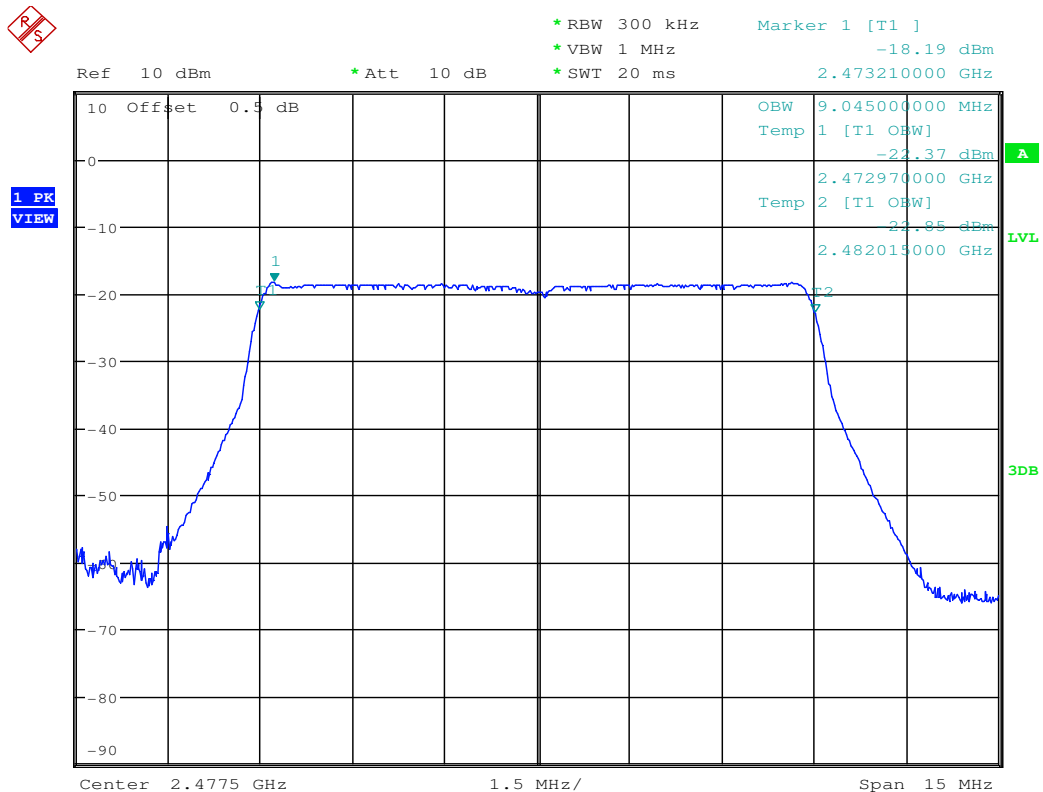


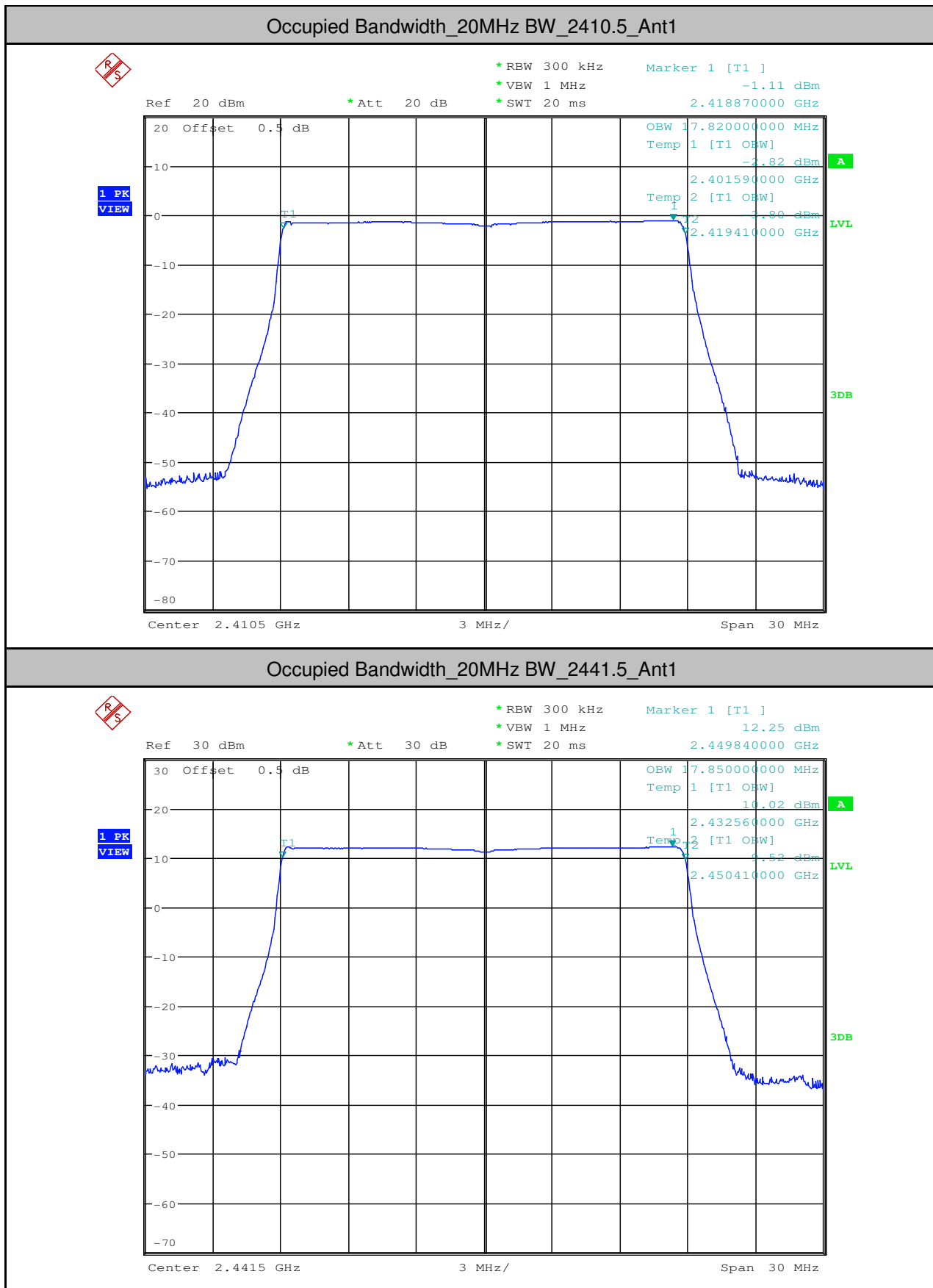


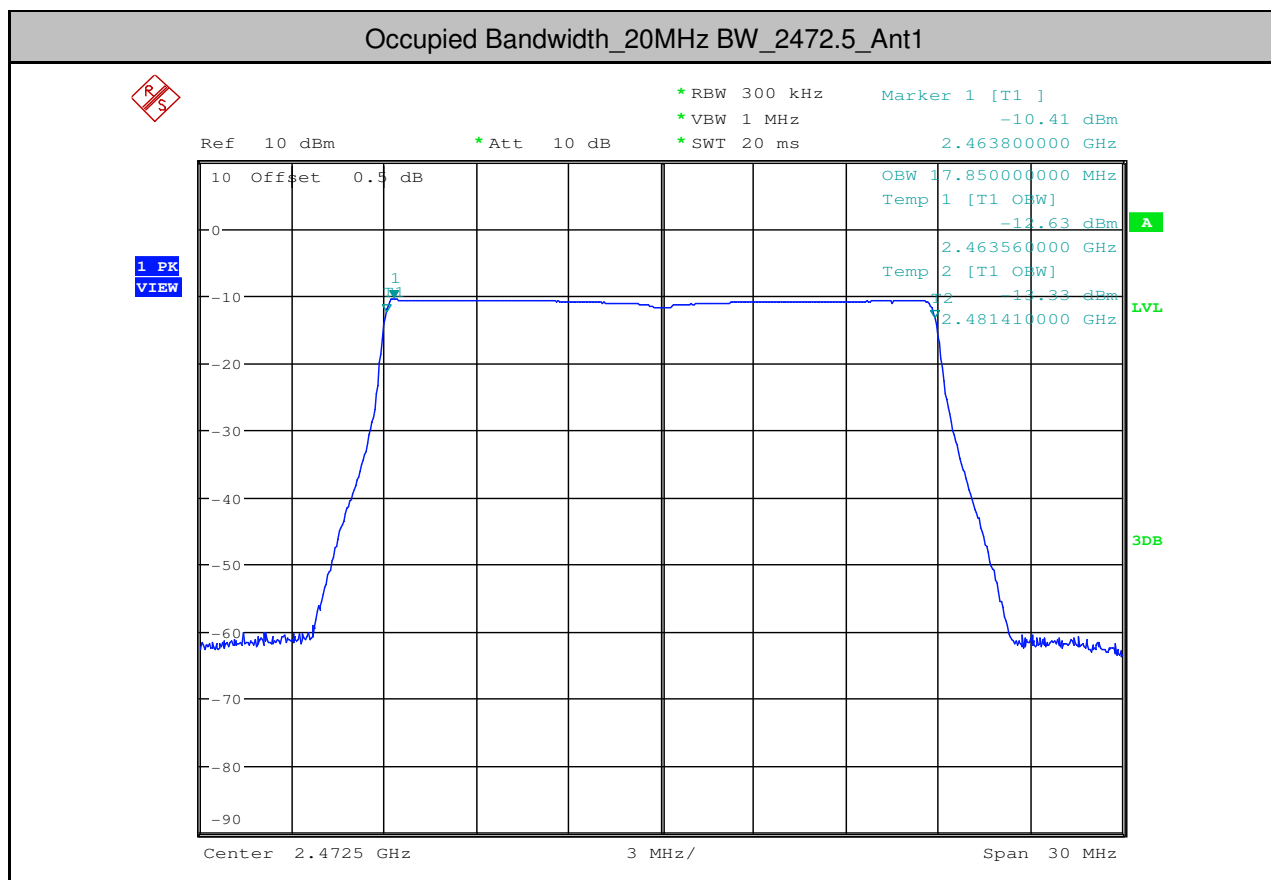
Occupied Bandwidth\_10MHz BW\_2441.5\_Ant1



Occupied Bandwidth\_10MHz BW\_2477.5\_Ant1









**3.Maximum conducted output power (Average Power)**

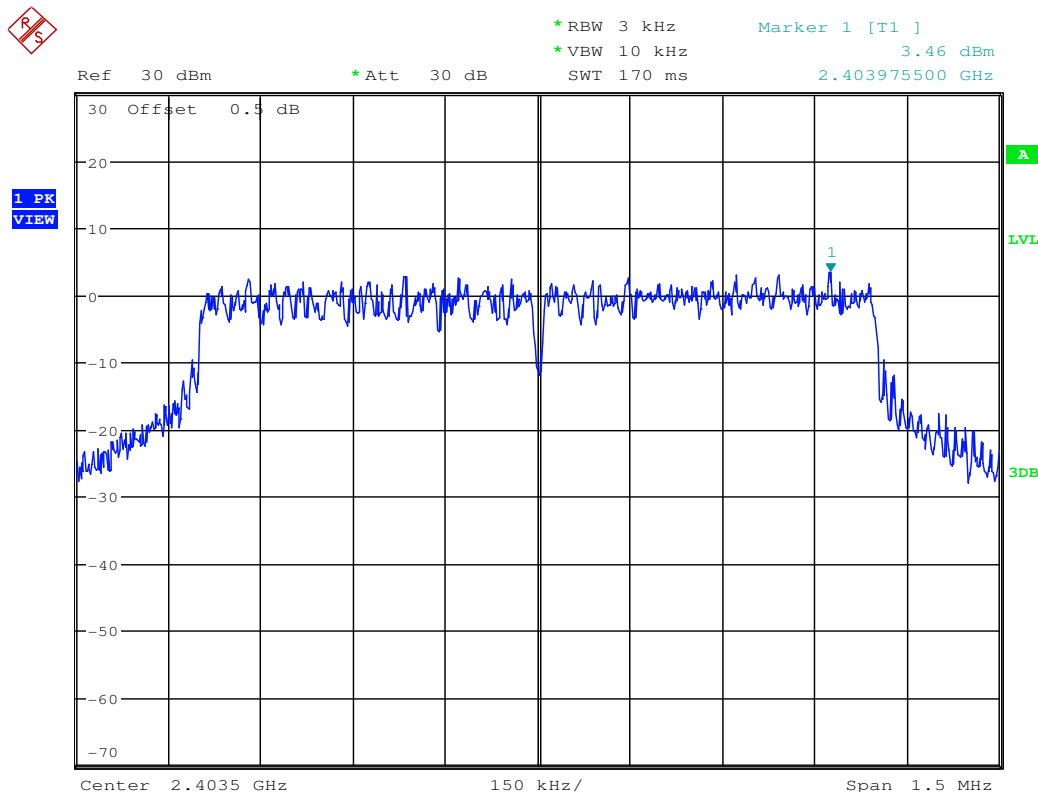
| Test Mode | Test Channel | Ant  | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------|------------|------------|---------|
| 1.4MHz BW | 2403.5       | Ant1 | 20.76      | <30        | PASS    |
| 1.4MHz BW | 2441.5       | Ant1 | 20.26      | <30        | PASS    |
| 1.4MHz BW | 2477.5       | Ant1 | 21.35      | <30        | PASS    |
| 10MHz BW  | 2405.5       | Ant1 | 10.80      | <30        | PASS    |
| 10MHz BW  | 2408.5       | Ant1 | 11.48      | <30        | PASS    |
| 10MHz BW  | 2409.5       | Ant1 | 12.87      | <30        | PASS    |
| 10MHz BW  | 2415.5       | Ant1 | 15.54      | <30        | PASS    |
| 10MHz BW  | 2417.5       | Ant1 | 17.62      | <30        | PASS    |
| 10MHz BW  | 2441.5       | Ant1 | 17.62      | <30        | PASS    |
| 10MHz BW  | 2455.5       | Ant1 | 17.39      | <30        | PASS    |
| 10MHz BW  | 2459.5       | Ant1 | 16.80      | <30        | PASS    |
| 10MHz BW  | 2463.5       | Ant1 | 12.99      | <30        | PASS    |
| 10MHz BW  | 2464.5       | Ant1 | 11.87      | <30        | PASS    |
| 10MHz BW  | 2467.5       | Ant1 | 10.67      | <30        | PASS    |
| 10MHz BW  | 2469.5       | Ant1 | 8.58       | <30        | PASS    |
| 10MHz BW  | 2471.5       | Ant1 | 7.83       | <30        | PASS    |
| 10MHz BW  | 2472.5       | Ant1 | 2.93       | <30        | PASS    |
| 10MHz BW  | 2476.5       | Ant1 | -0.10      | <30        | PASS    |
| 10MHz BW  | 2477.5       | Ant1 | -11.16     | <30        | PASS    |
| 20MHz BW  | 2410.5       | Ant1 | 4.43       | <30        | PASS    |
| 20MHz BW  | 2414.5       | Ant1 | 6.57       | <30        | PASS    |
| 20MHz BW  | 2415.5       | Ant1 | 7.51       | <30        | PASS    |
| 20MHz BW  | 2419.5       | Ant1 | 10.23      | <30        | PASS    |
| 20MHz BW  | 2420.5       | Ant1 | 11.28      | <30        | PASS    |
| 20MHz BW  | 2430.5       | Ant1 | 14.45      | <30        | PASS    |
| 20MHz BW  | 2434.5       | Ant1 | 17.25      | <30        | PASS    |
| 20MHz BW  | 2441.5       | Ant1 | 17.99      | <30        | PASS    |
| 20MHz BW  | 2442.5       | Ant1 | 18.00      | <30        | PASS    |
| 20MHz BW  | 2448.5       | Ant1 | 13.80      | <30        | PASS    |
| 20MHz BW  | 2450.5       | Ant1 | 12.62      | <30        | PASS    |
| 20MHz BW  | 2458.5       | Ant1 | 9.49       | <30        | PASS    |
| 20MHz BW  | 2459.5       | Ant1 | 8.50       | <30        | PASS    |
| 20MHz BW  | 2464.5       | Ant1 | 5.14       | <30        | PASS    |
| 20MHz BW  | 2465.5       | Ant1 | 4.12       | <30        | PASS    |
| 20MHz BW  | 2471.5       | Ant1 | 1.14       | <30        | PASS    |
| 20MHz BW  | 2472.5       | Ant1 | -6.06      | <30        | PASS    |



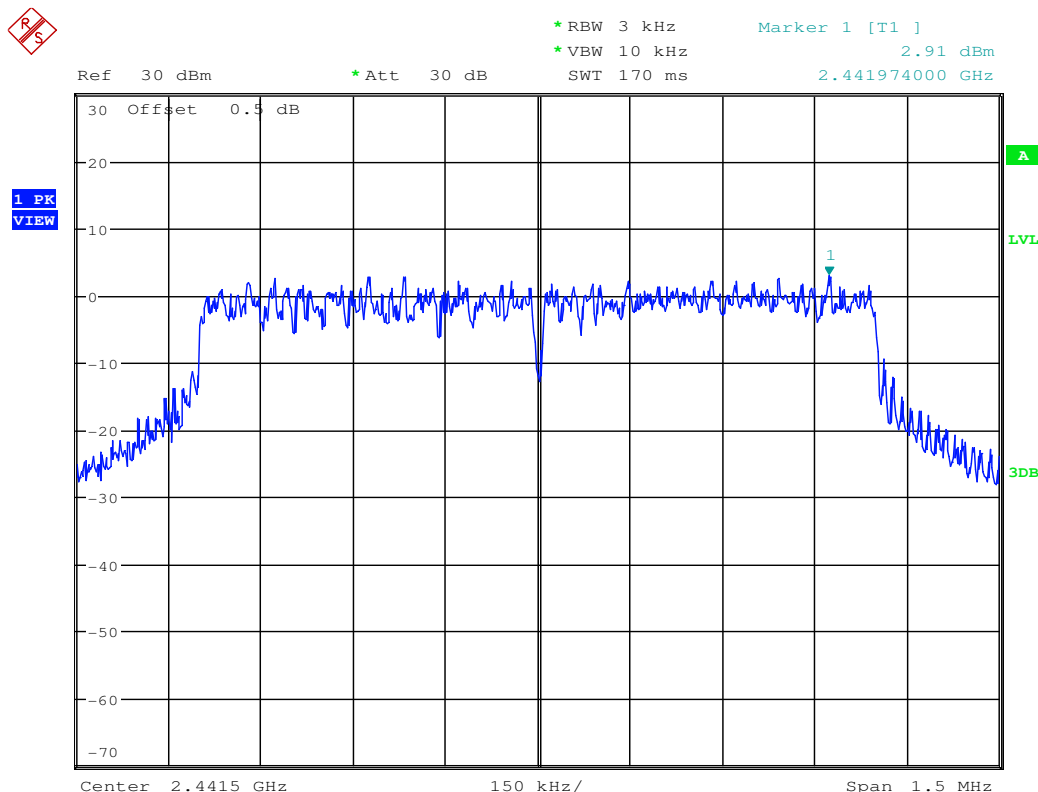
#### 4.Maximum Peak power spectral density

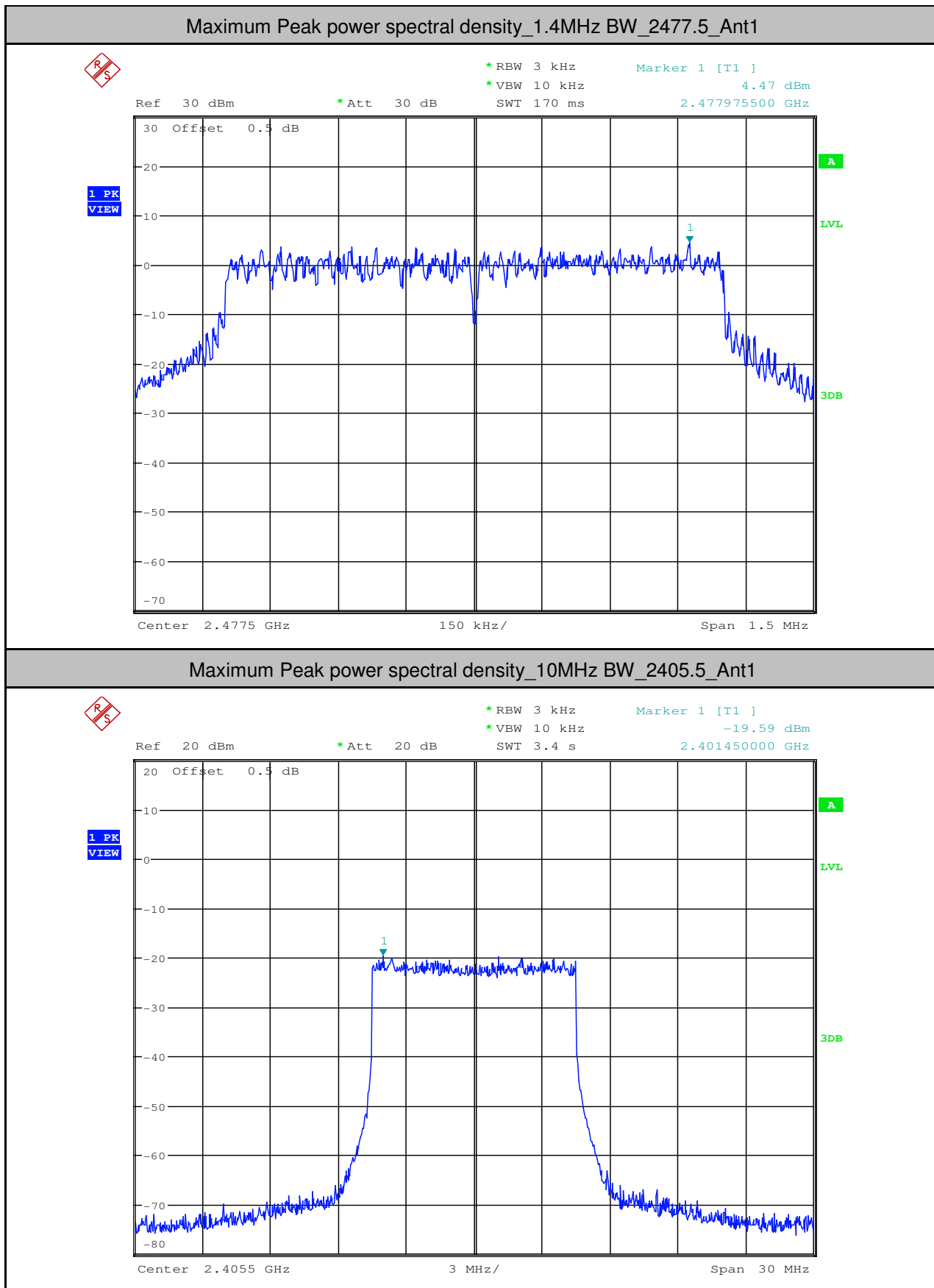
| Test Mode | Test Channel | Ant  | PSD [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|--------------|------|----------------|------------------|---------|
| 1.4MHz BW | 2403.5       | Ant1 | 3.46           | <8.00            | PASS    |
| 1.4MHz BW | 2441.5       | Ant1 | 2.91           | <8.00            | PASS    |
| 1.4MHz BW | 2477.5       | Ant1 | 4.47           | <8.00            | PASS    |
| 10MHz BW  | 2405.5       | Ant1 | -19.59         | <8.00            | PASS    |
| 10MHz BW  | 2441.5       | Ant1 | -11.84         | <8.00            | PASS    |
| 10MHz BW  | 2477.5       | Ant1 | -42.26         | <8.00            | PASS    |
| 20MHz BW  | 2410.5       | Ant1 | -28.75         | <8.00            | PASS    |
| 20MHz BW  | 2441.5       | Ant1 | -14.61         | <8.00            | PASS    |
| 20MHz BW  | 2472.5       | Ant1 | -35.78         | <8.00            | PASS    |

Maximum Peak power spectral density\_1.4MHz BW\_2403.5\_Ant1

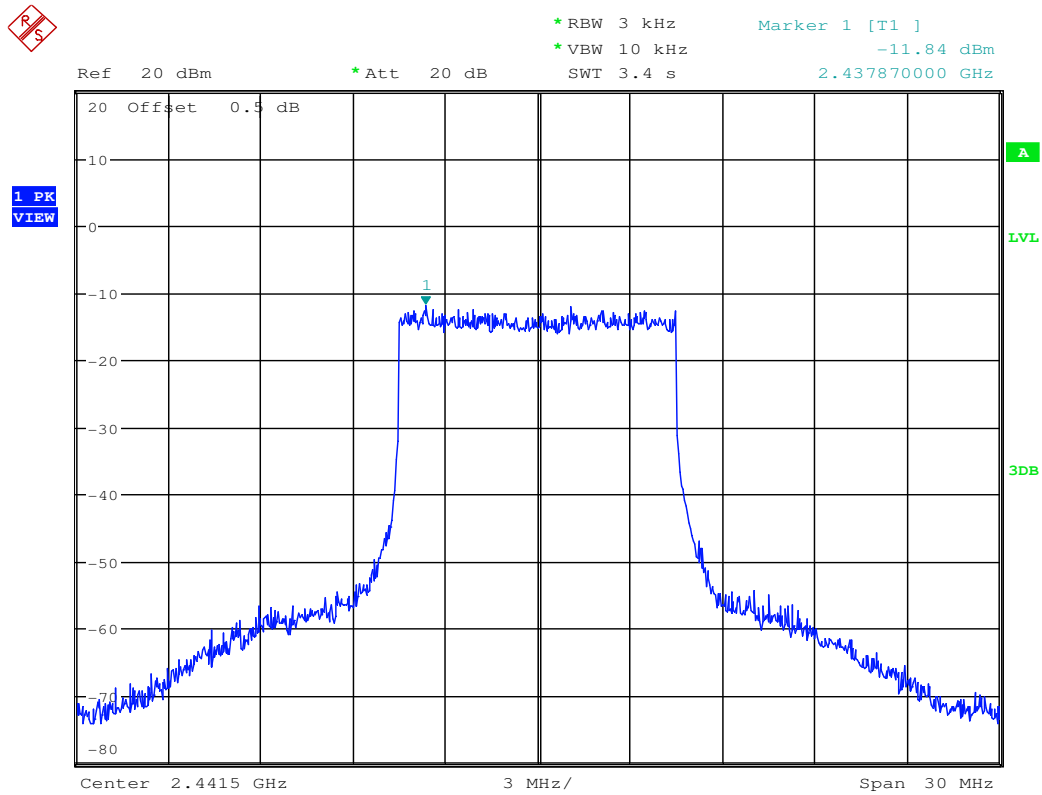


Maximum Peak power spectral density\_1.4MHz BW\_2441.5\_Ant1

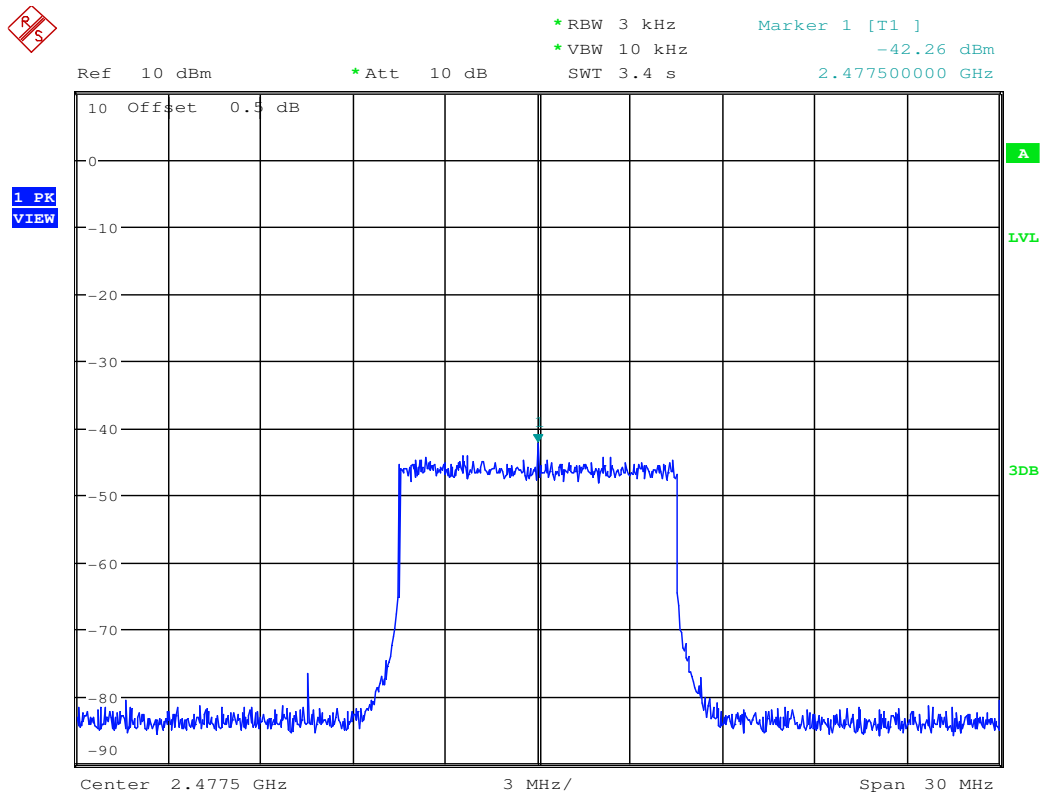




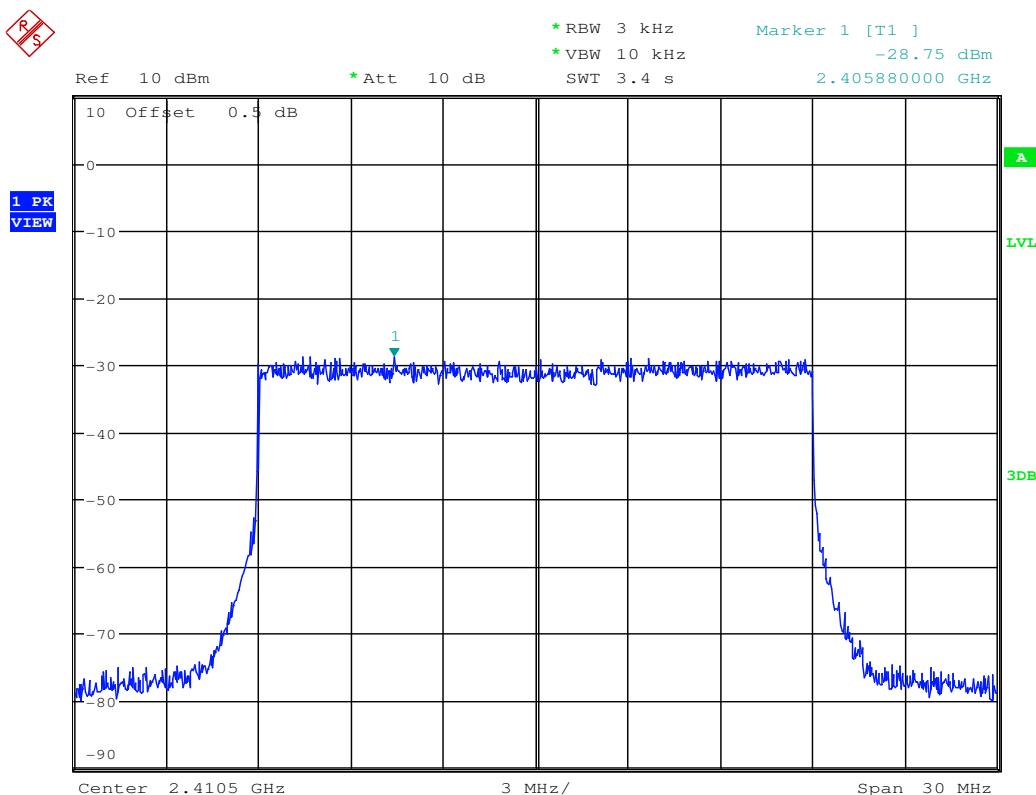
Maximum Peak power spectral density\_10MHz BW\_2441.5\_Ant1



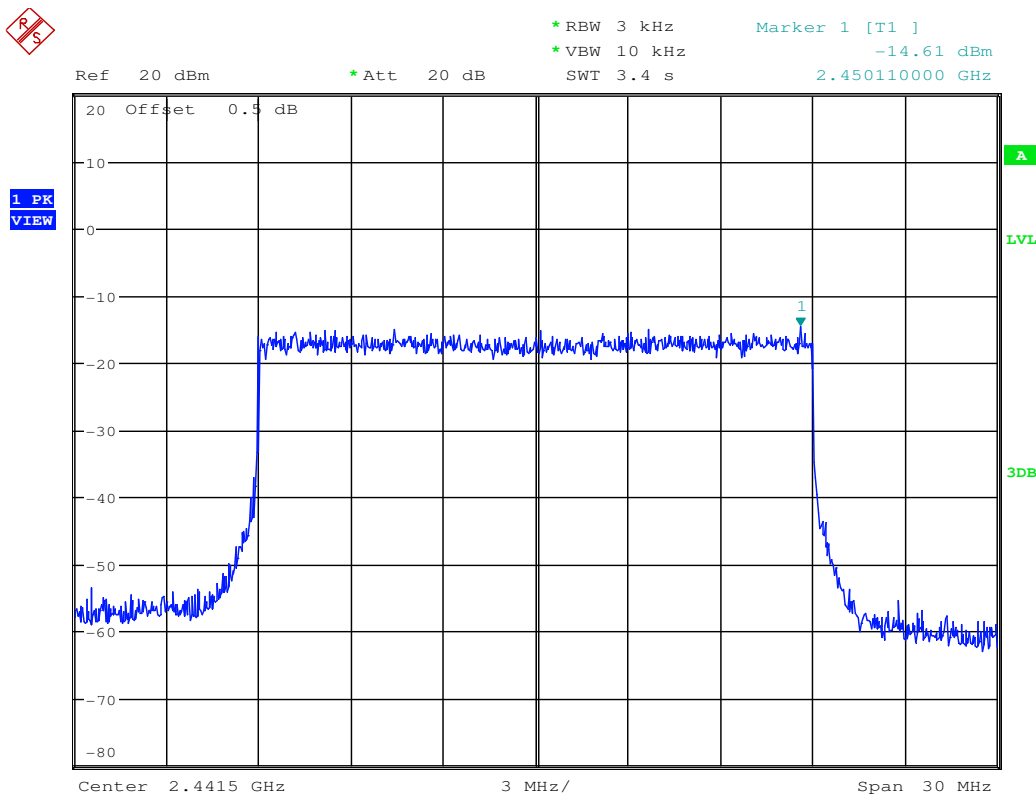
Maximum Peak power spectral density\_10MHz BW\_2477.5\_Ant1

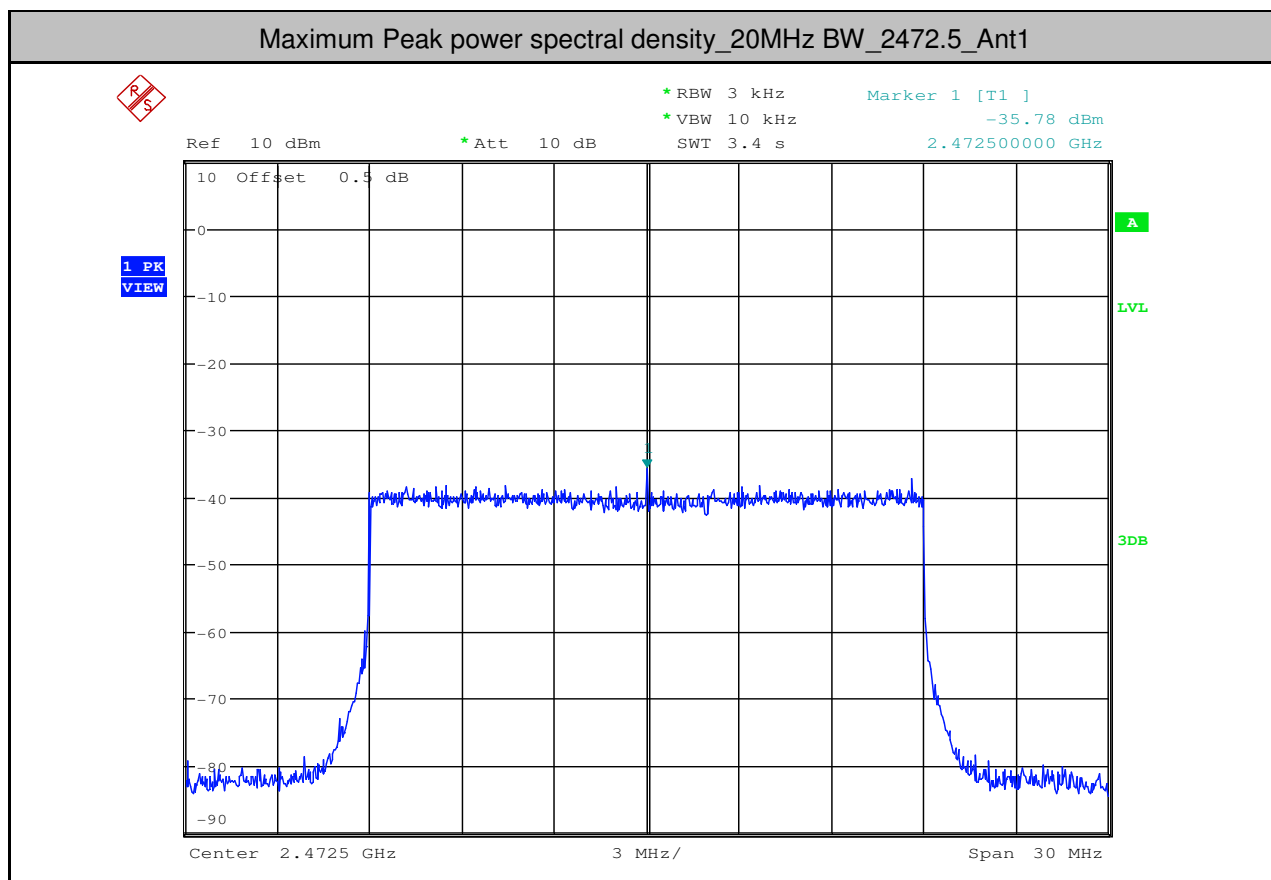


## Maximum Peak power spectral density\_20MHz BW\_2410.5\_Ant1

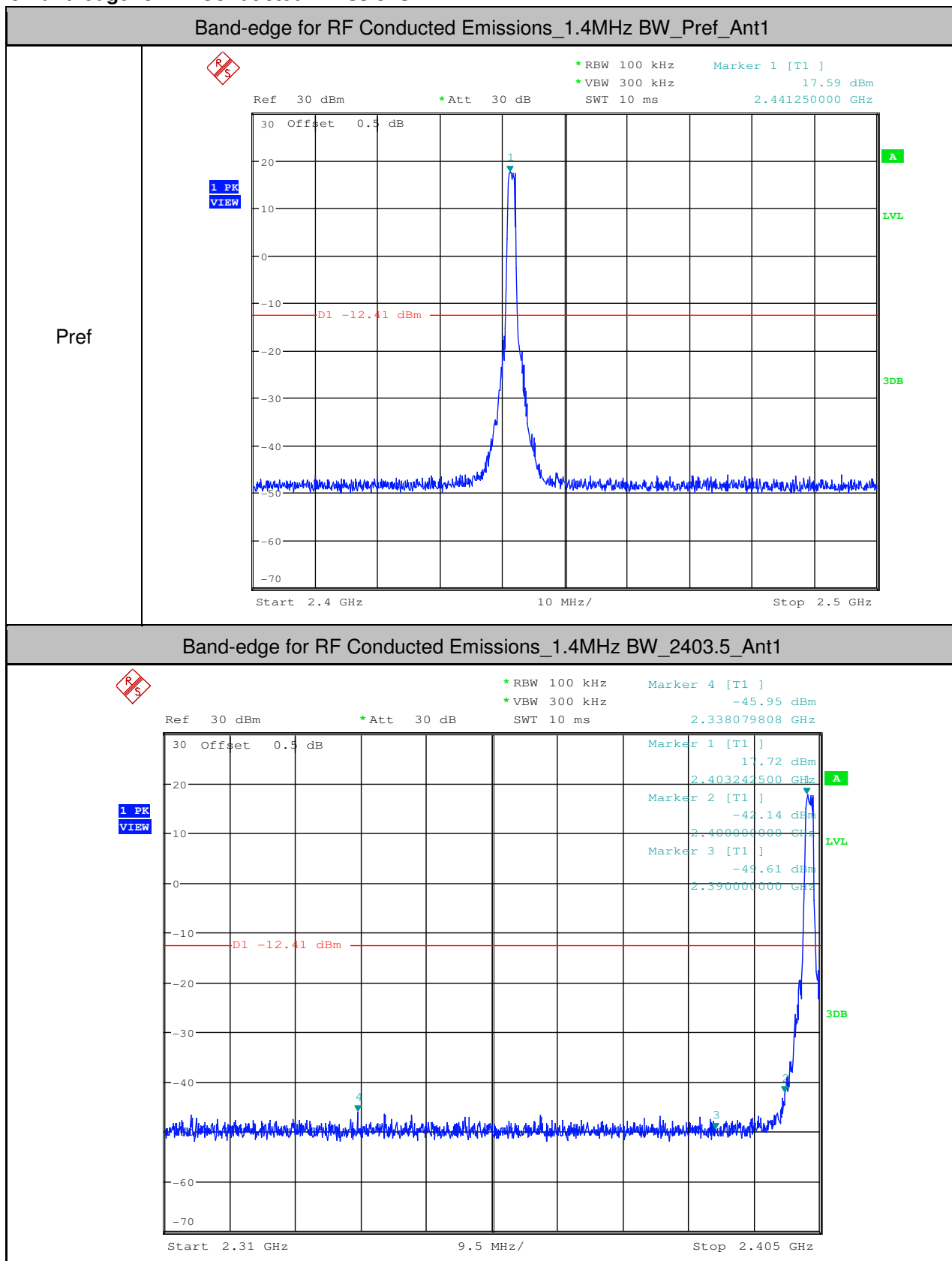


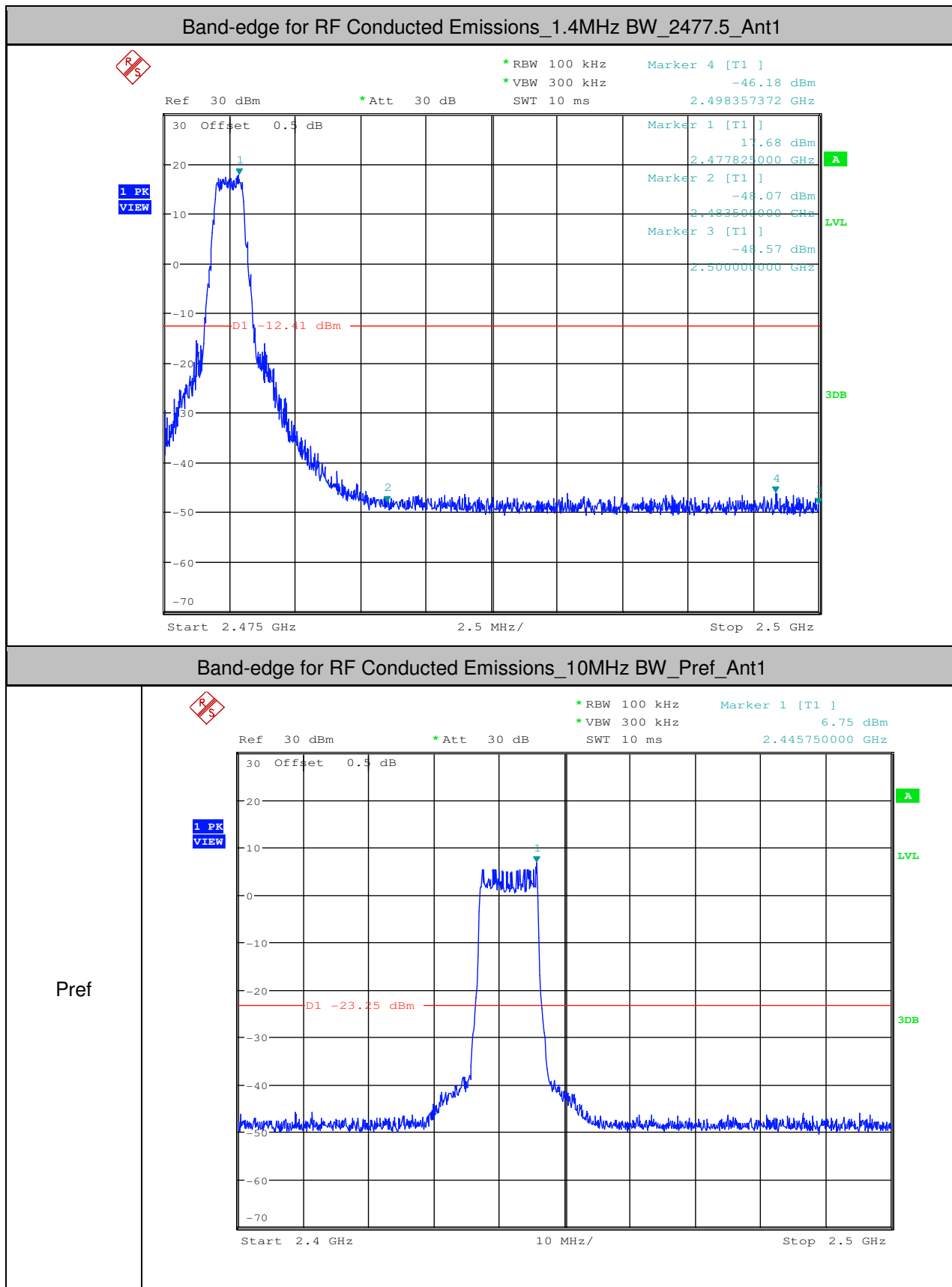
## Maximum Peak power spectral density\_20MHz BW\_2441.5\_Ant1

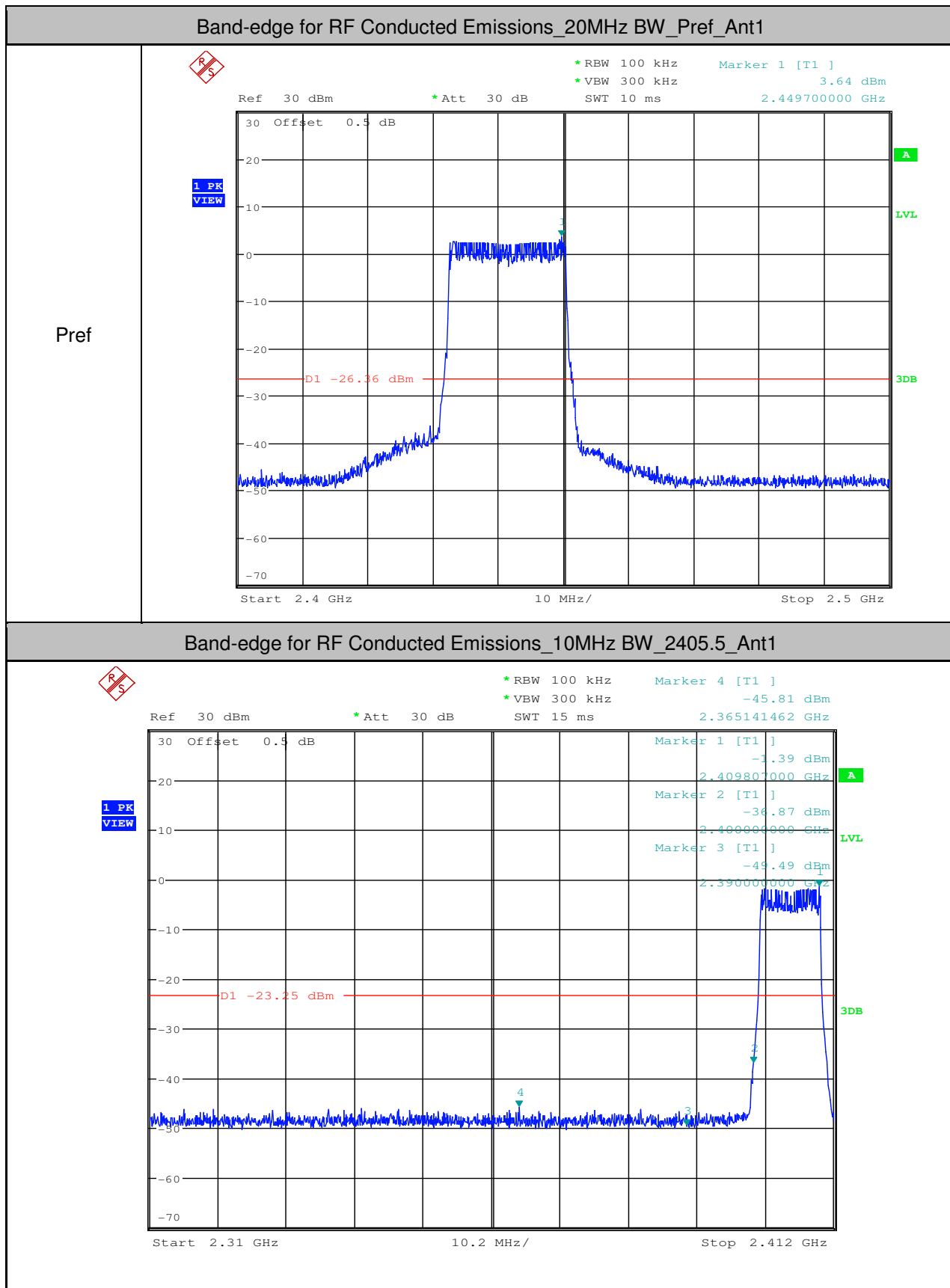


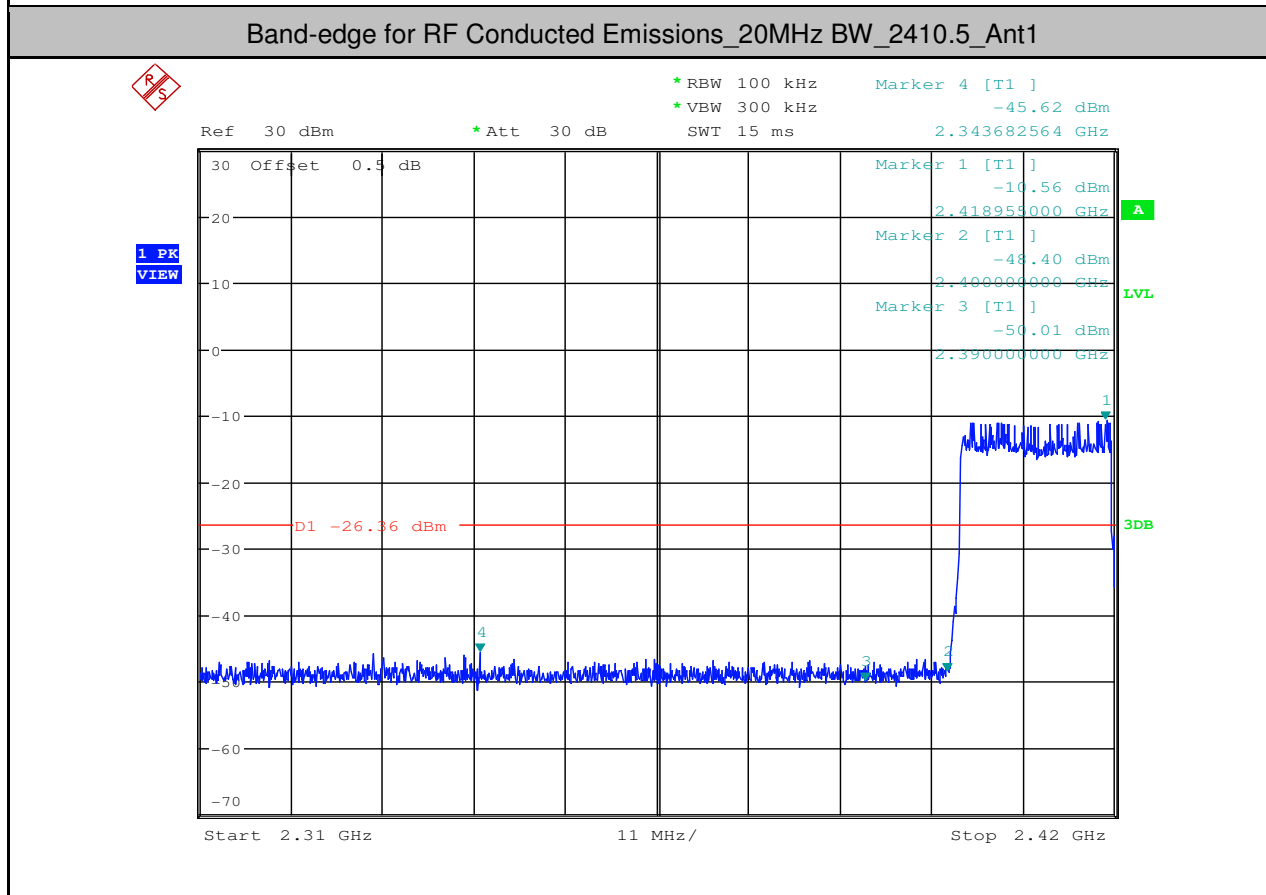


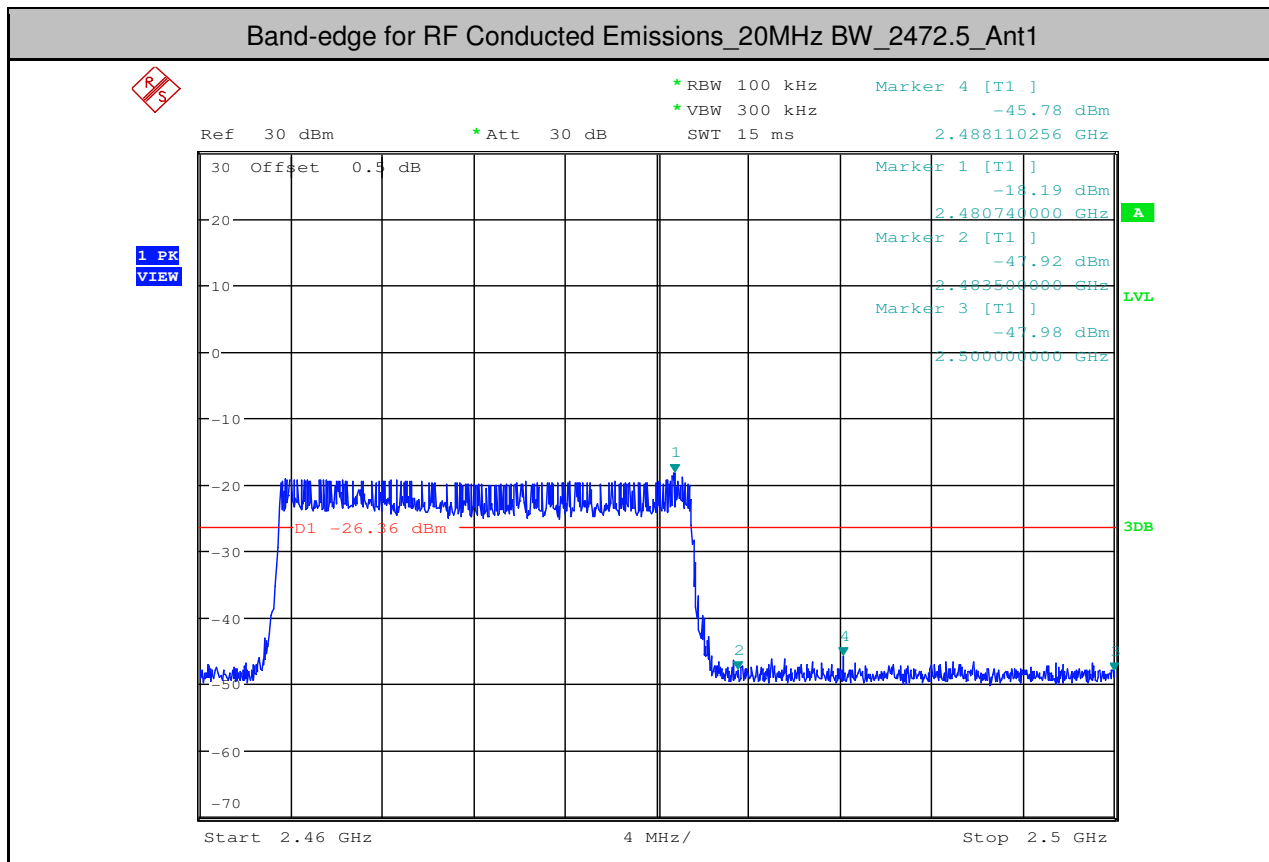
## 5.Band-edge for RF Conducted Emissions



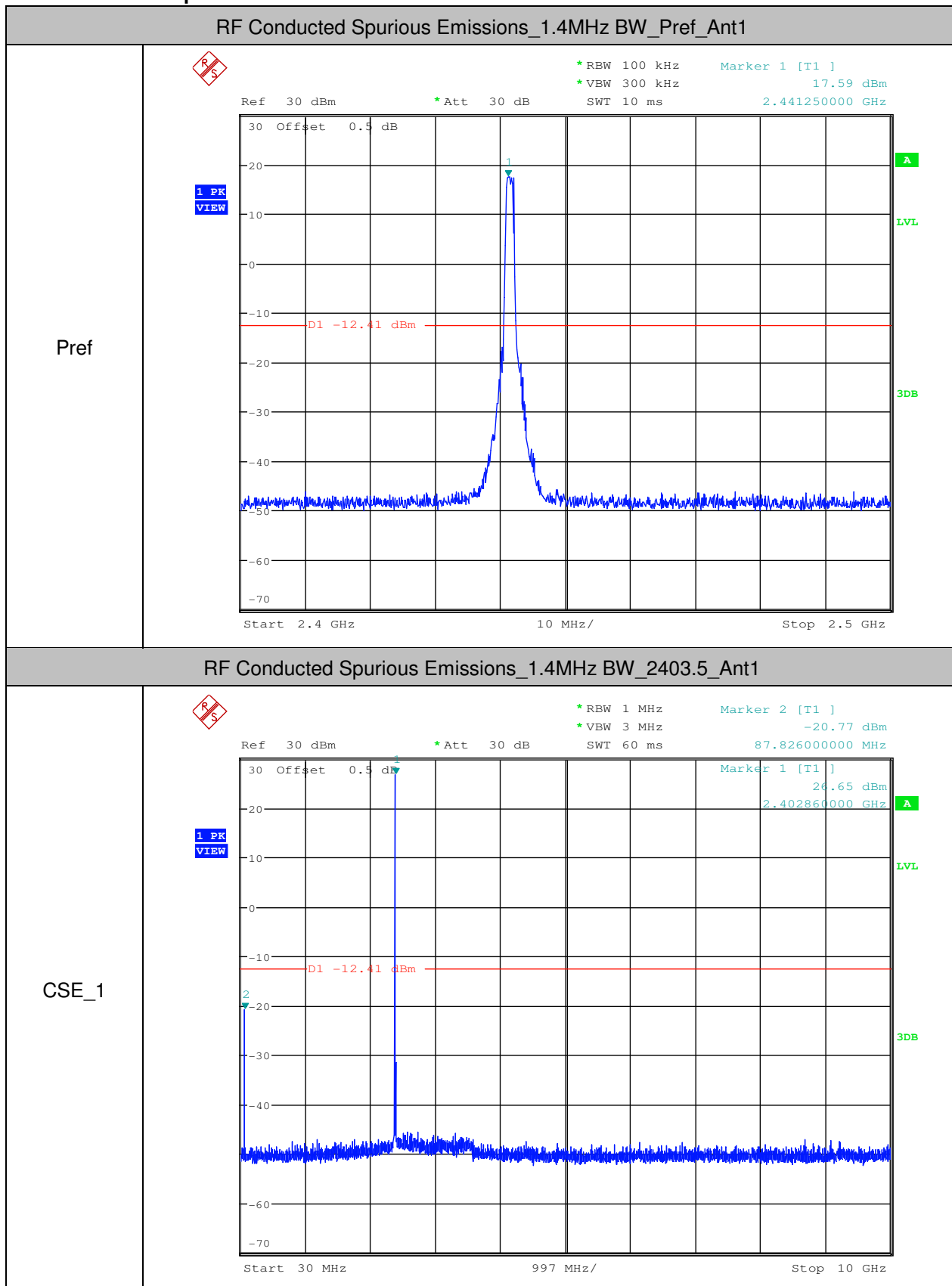


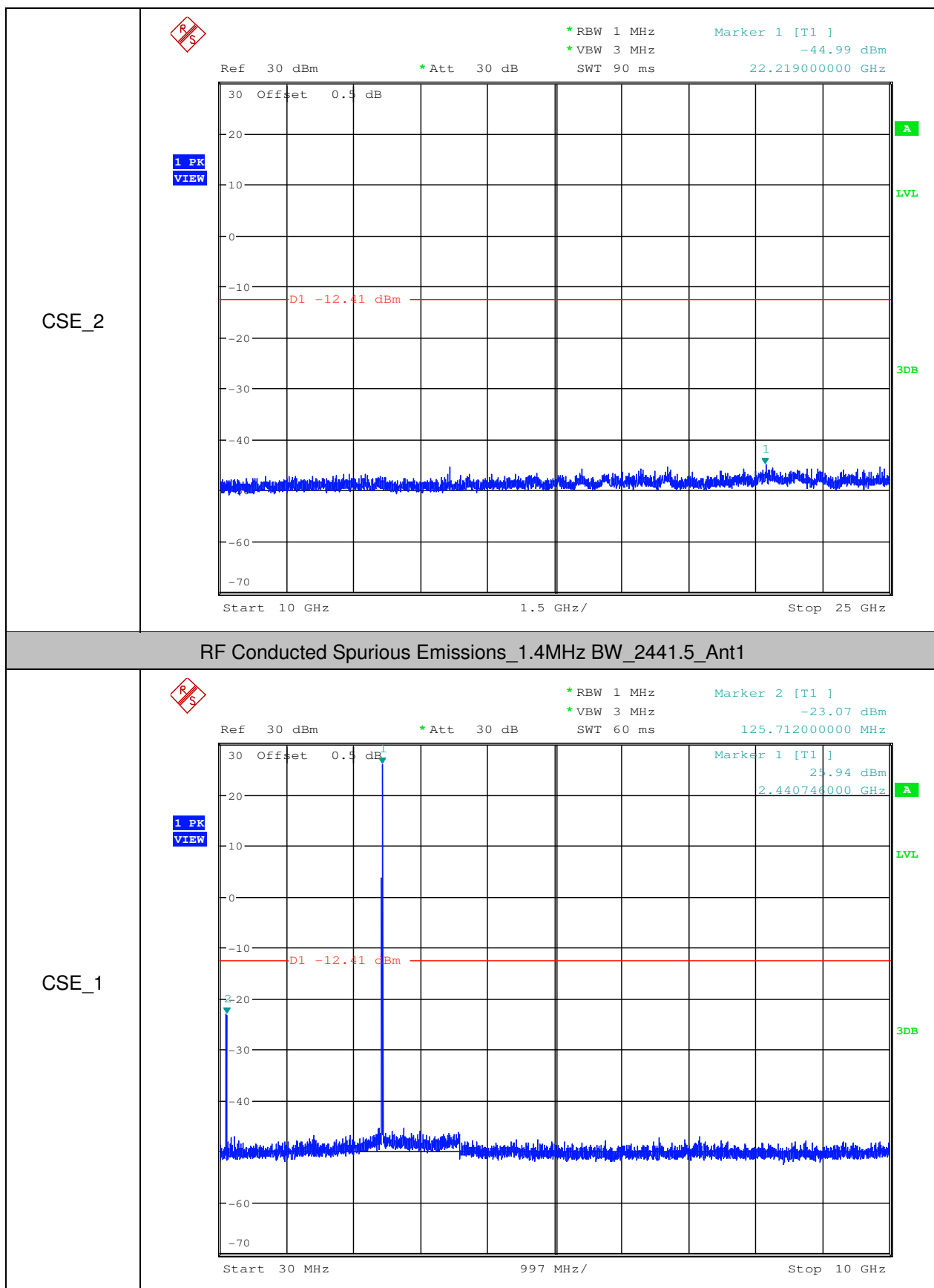


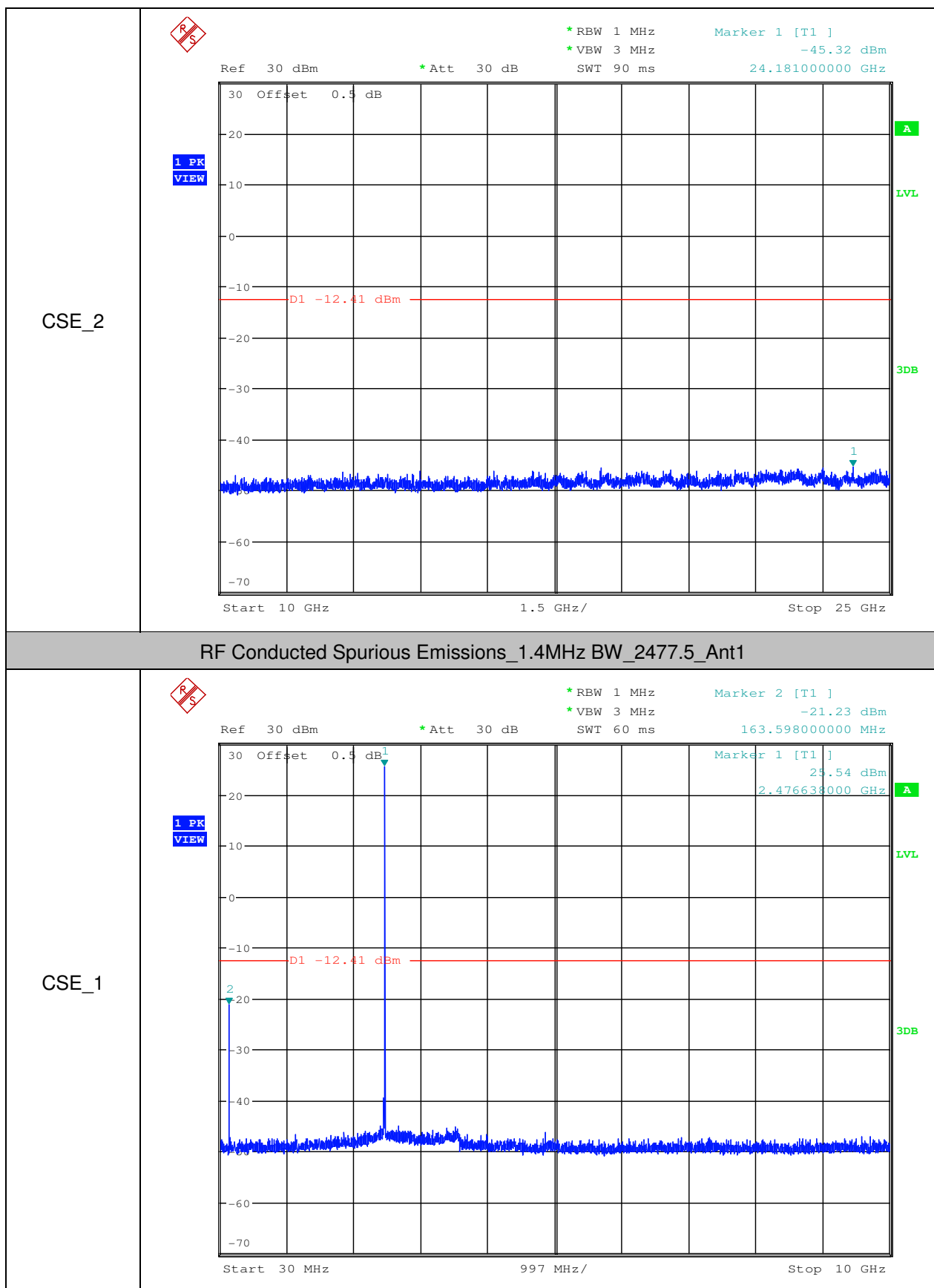


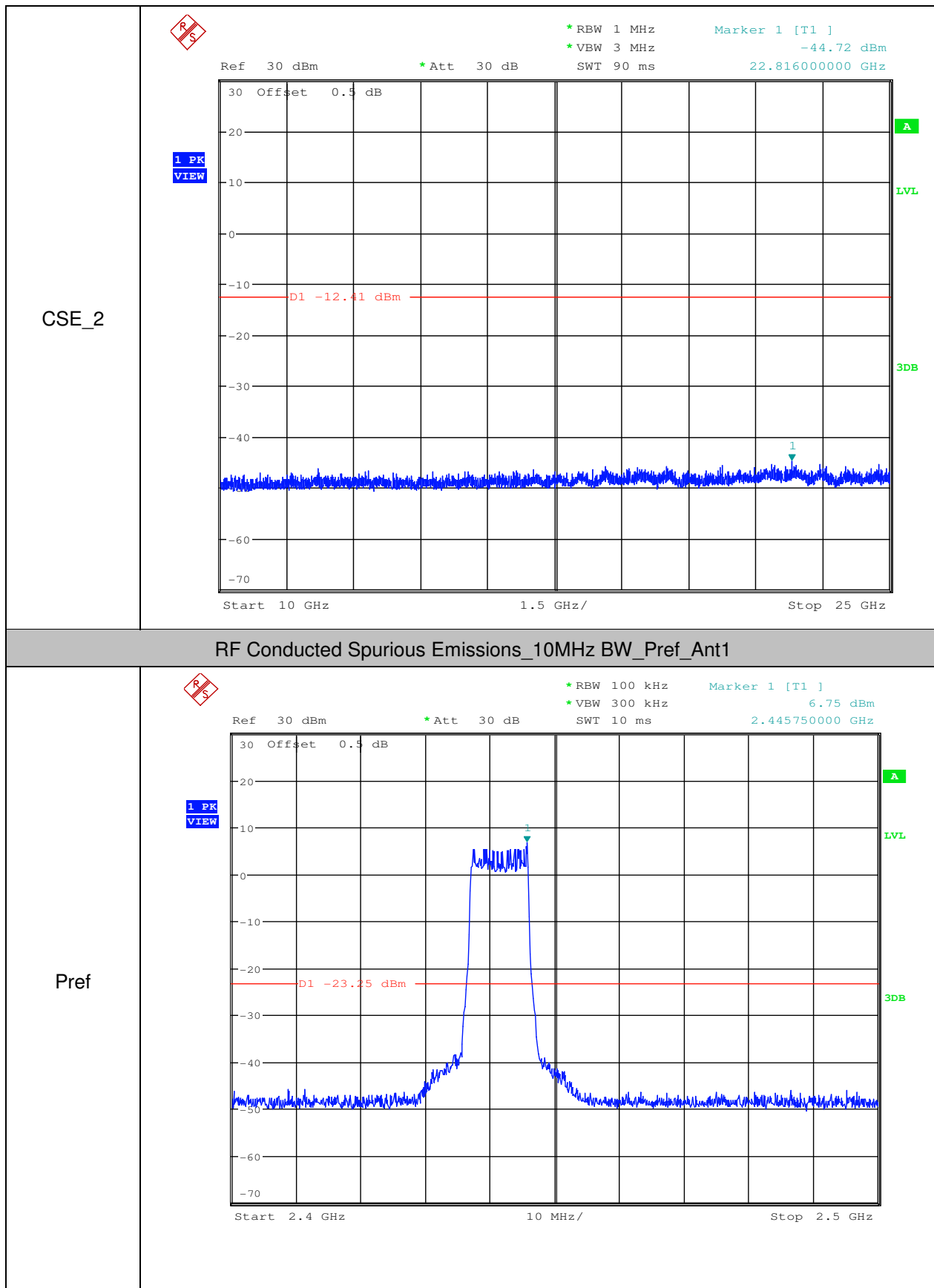


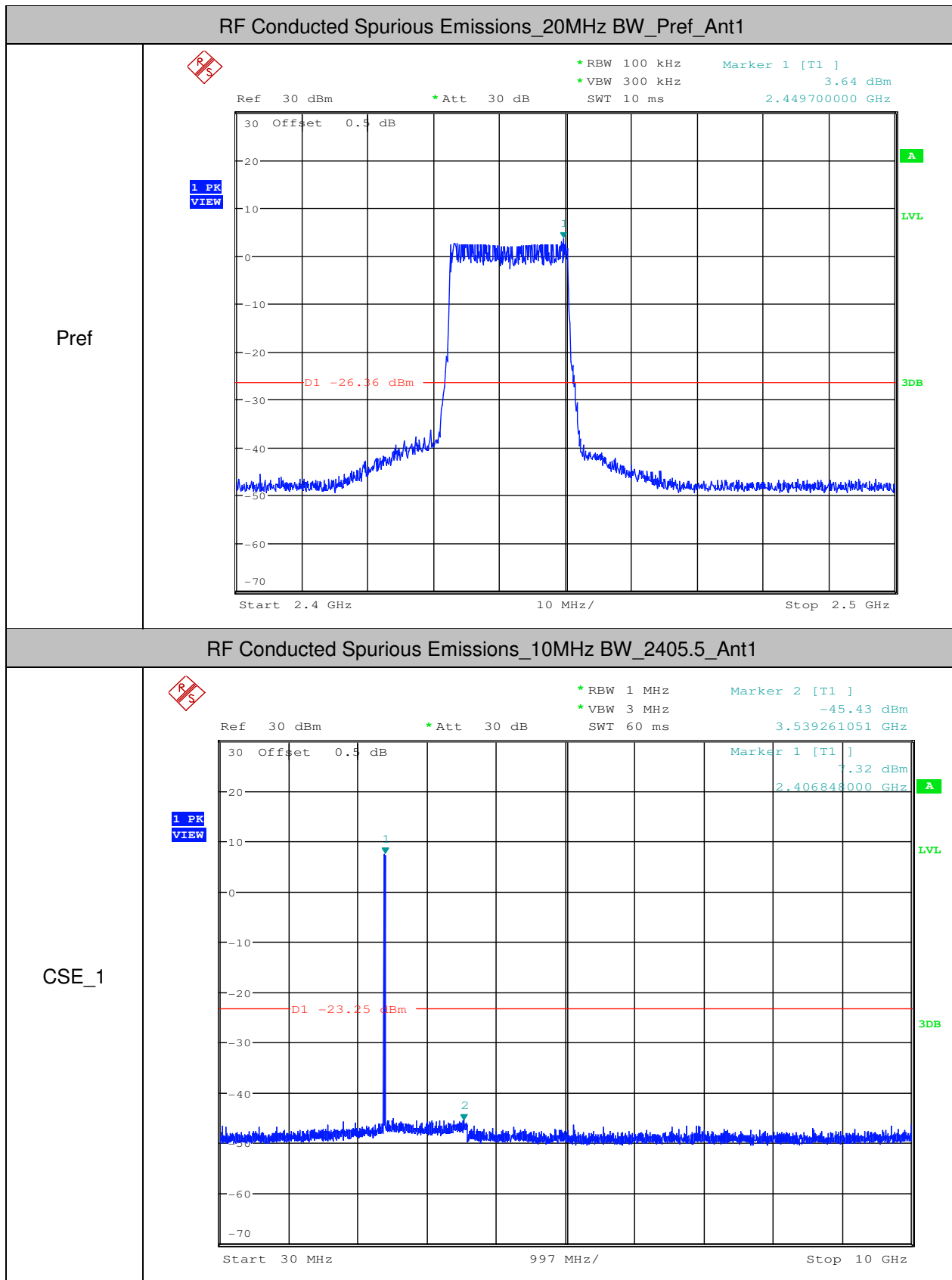
## 6.RF Conducted Spurious Emissions

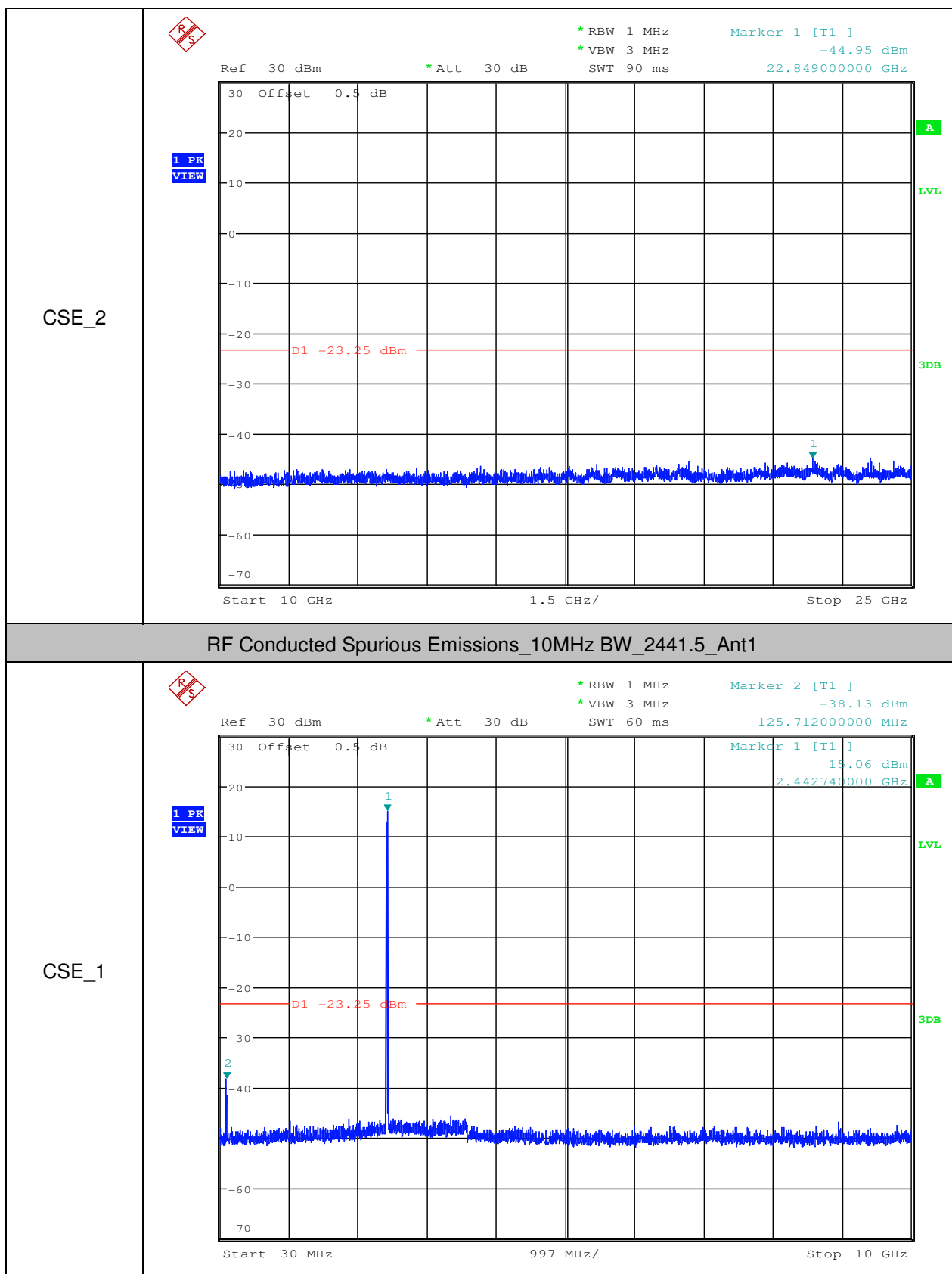


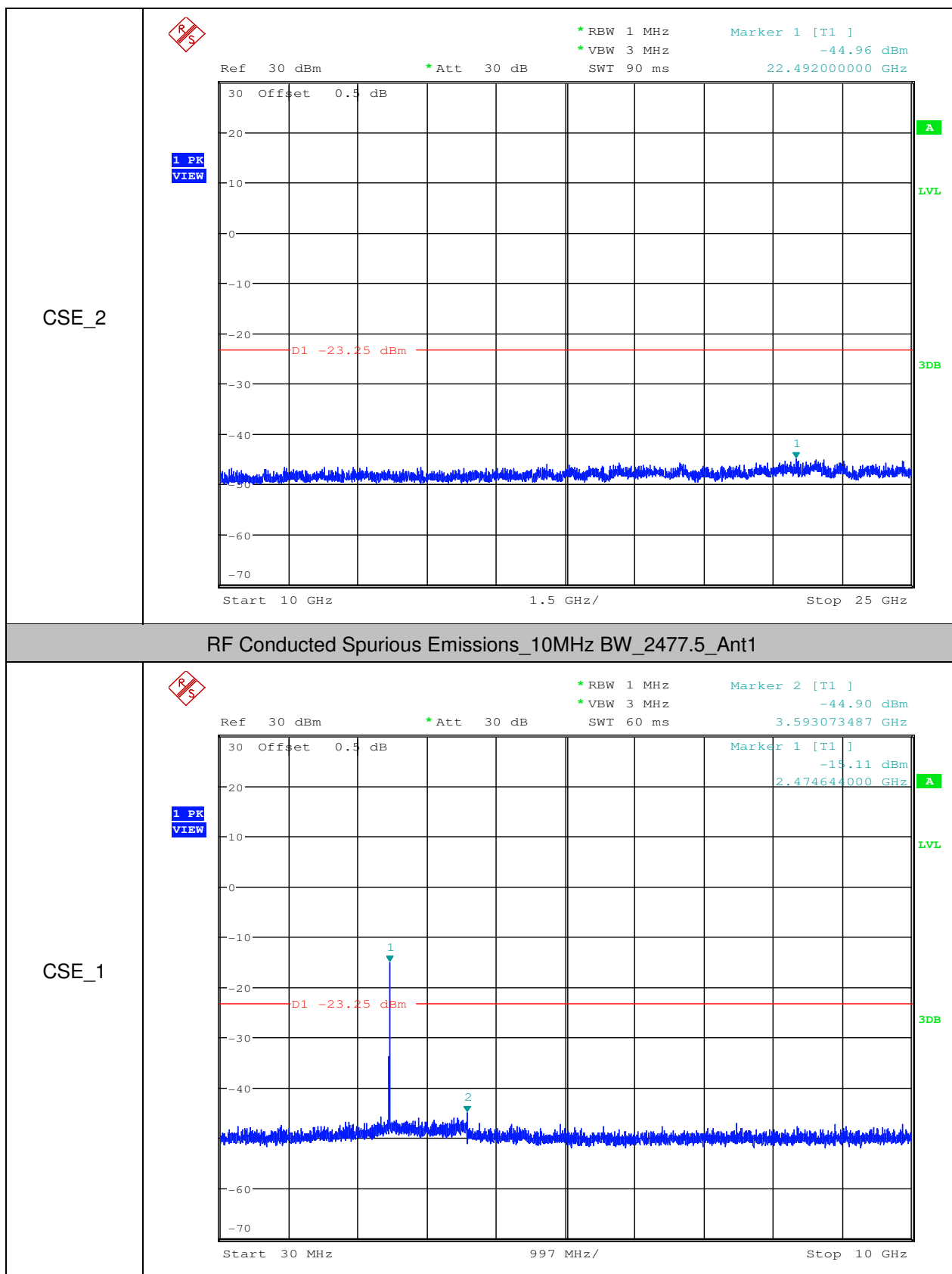


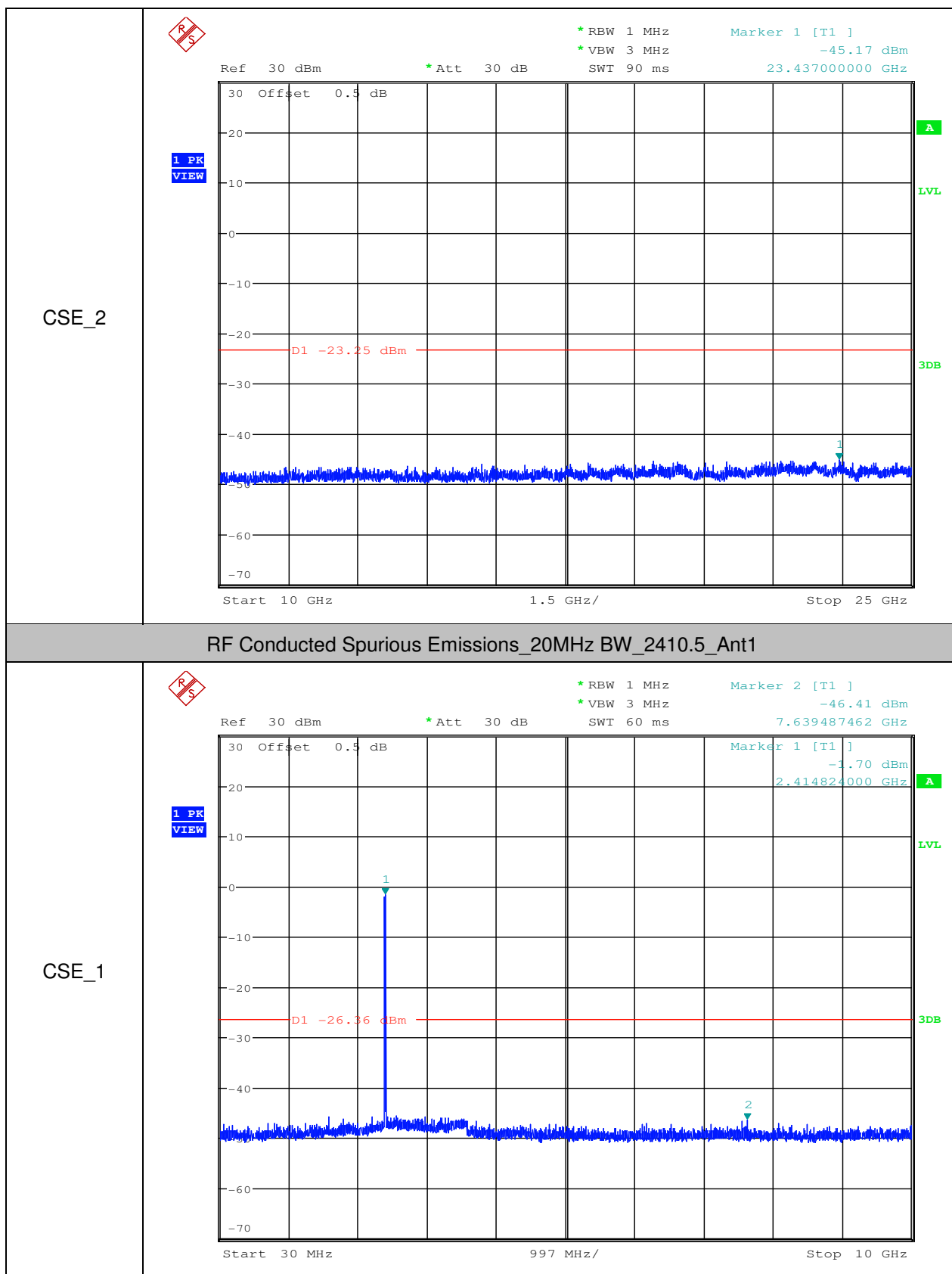


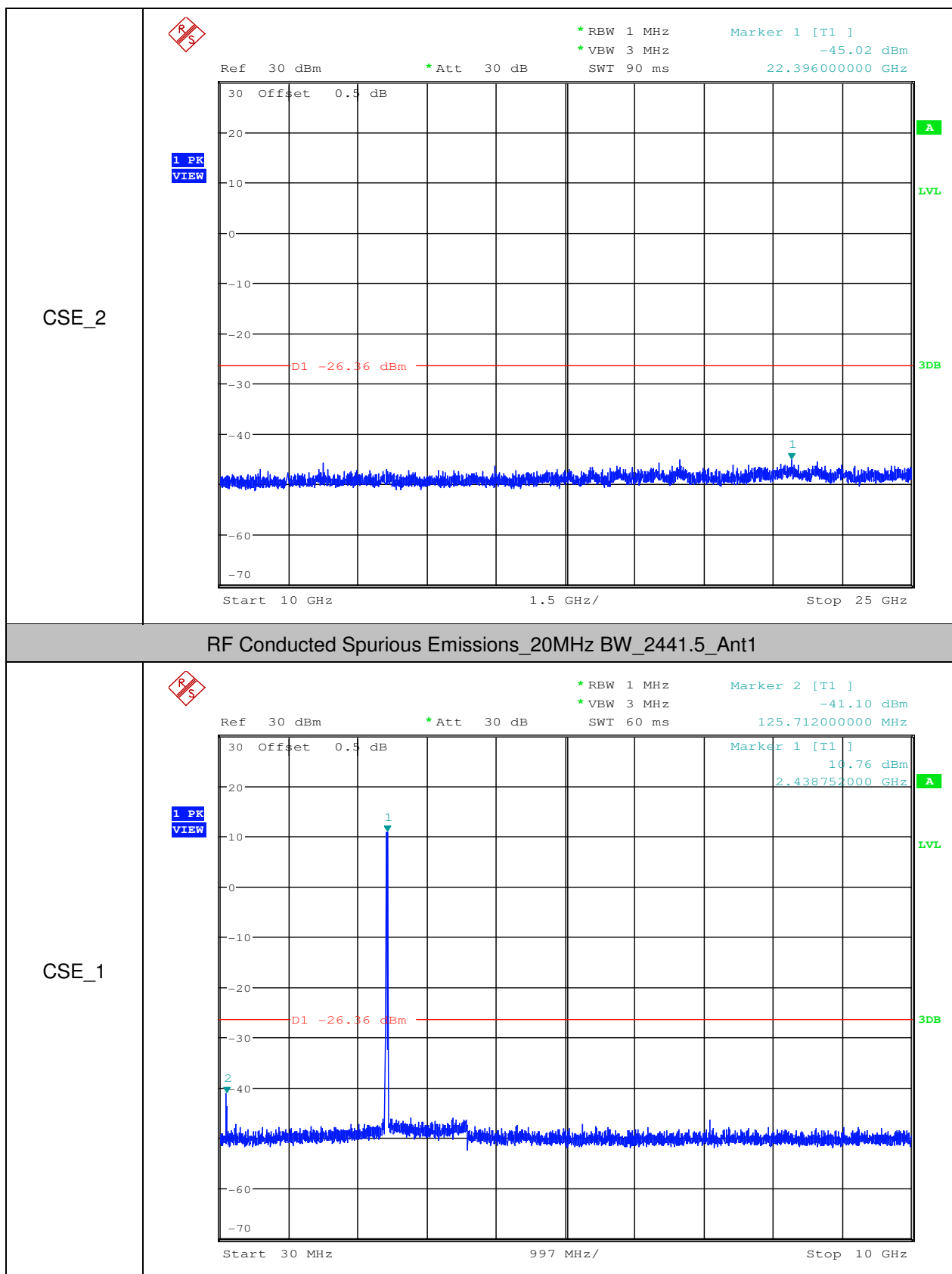


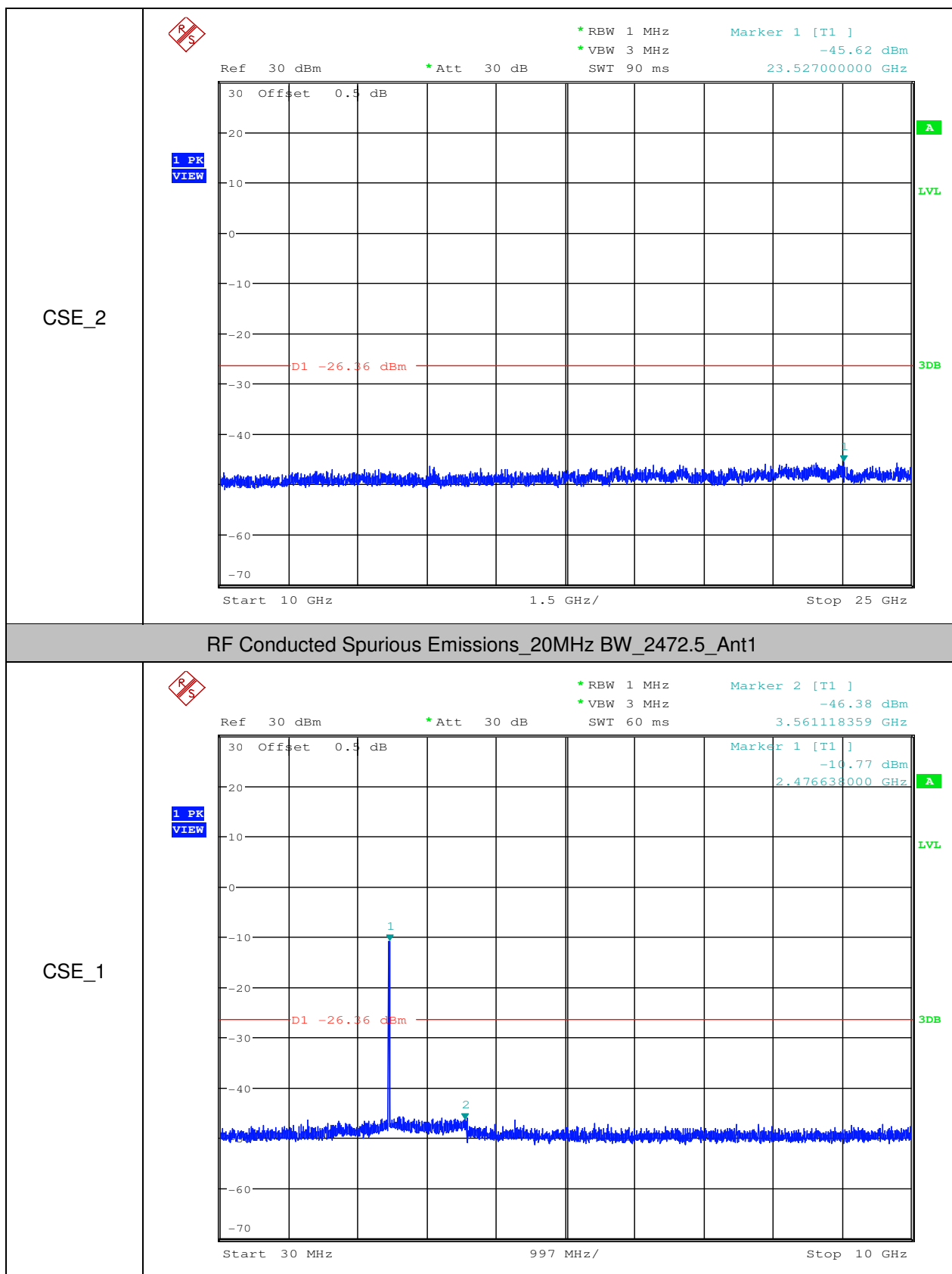


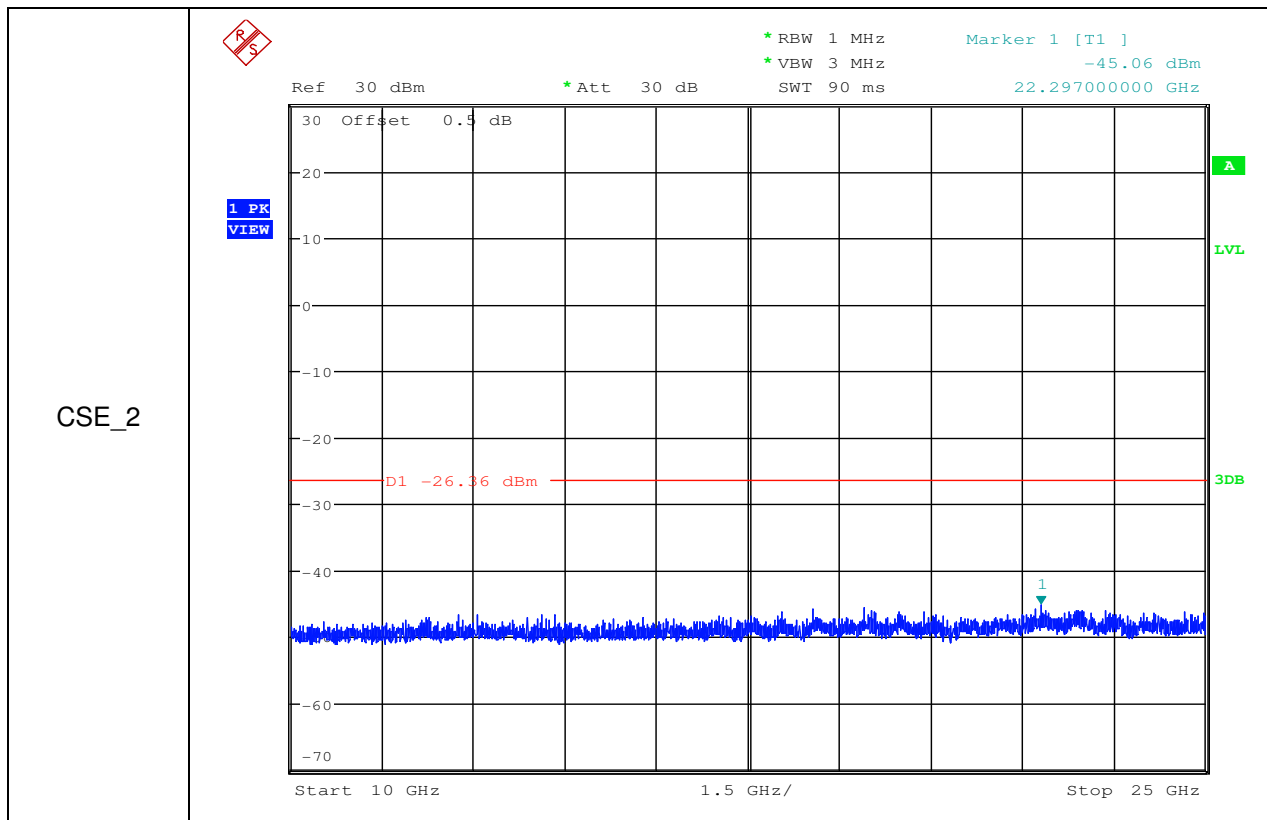












- End of the Report -