



SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
Ph: 886-3-327-3456 / FAX: 886-3-327-0973 / www.sporton.com.tw

FCC RADIO TEST REPORT

| | |
|------------------------|--|
| Applicant's company | Cambium Networks Inc. |
| Applicant Address | 3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA |
| FCC ID | Z8H89FT0038 |
| Manufacturer's company | Cambium Networks Inc. |
| Manufacturer Address | 3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA |

| | |
|-------------------|---------------------------------------|
| Product Name | PTP550 |
| Brand Name | Cambium Networks |
| Model No. | PTP550 |
| Test Rule Part(s) | 47 CFR FCC Part 15 Subpart E § 15.407 |
| Test Freq. Range | 5150 ~ 5250 MHz / 5725 ~ 5850 MHz |
| Received Date | Sep. 28, 2017 |
| Final Test Date | Oct. 16, 2017 |
| Submission Type | Original Equipment |

Statement

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.10-2013, 47 CFR FCC Part 15 Subpart E,**
KDB789033 D02 v01r04, KDB662911 D01 v02r01, ET Docket No. 13-49; FCC 16-24.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.



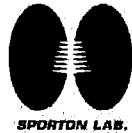


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History of This Test Report



Report No.: FR7O1623

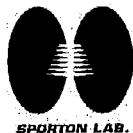
Project No: CB10610326

1. VERIFICATION OF COMPLIANCE

Product Name : PTP550
Brand Name : Cambium Networks
Model No. : PTP550
Applicant : Cambium Networks Inc.
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart E § 15.407

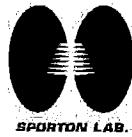
Sportun International as requested by the applicant to evaluate the EMC performance of the product sample received on Sep. 28, 2017 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Cliff Chang
Cliff Chang
SPORTON INTERNATIONAL INC.



2. SUMMARY OF THE TEST RESULT

| Applied Standard: 47 CFR FCC Part 15 Subpart E | | | |
|--|--------------|--|----------|
| Part | Rule Section | Description of Test | Result |
| 4.1 | 15.207 | AC Power Line Conducted Emissions | Complies |
| 4.2 | 15.407(a) | 26dB Spectrum Bandwidth and 99% Occupied Bandwidth | Complies |
| 4.3 | 15.407(e) | 6dB Spectrum Bandwidth | Complies |
| 4.4 | 15.407(a) | Maximum Conducted Output Power | Complies |
| 4.5 | 15.407(a) | Power Spectral Density | Complies |
| 4.6 | 15.407(b) | Radiated Emissions | Complies |
| 4.7 | 15.407(b) | Band Edge Emissions | Complies |
| 4.8 | 15.407(g) | Frequency Stability | Complies |
| 4.9 | 15.203 | Antenna Requirements | Complies |



3. GENERAL INFORMATION

3.1. Product Details

| Items | Description |
|-------------------------|---|
| Product Type | 2TX, 2RX |
| Radio Type | Intentional Transceiver |
| Power Type | From PoE |
| Modulation | QPSK |
| Frequency Range | 5150 ~ 5250 MHz / 5725 ~ 5850 MHz |
| Channel Number | <p>For Antenna 1:</p> <p>Band 1: 13 for 20MHz bandwidth</p> <p>Band 4: 17 for 20MHz bandwidth</p> <p>Band 1: 5 for 80MHz bandwidth</p> <p>Band 4: 9 for 80MHz bandwidth</p> <p>For Antenna 2:</p> <p>Band 1: 13 for 20MHz bandwidth</p> <p>Band 4: 17 for 20MHz bandwidth</p> <p>Band 1: 3 for 80MHz bandwidth</p> <p>Band 4: 9 for 80MHz bandwidth</p> |
| Channel Bandwidth (99%) | <p>For Antenna 1:</p> <p>Band 1: QPSK, 20M: 29.70MHz QPSK, 80M: 74.96MHz</p> <p>Band 4: QPSK, 20M: 37.77MHz QPSK, 80M: 76.12MHz</p> <p>For Antenna 2:</p> <p>Band 1: QPSK, 20M: 17.71MHz QPSK, 80M: 75.54MHz</p> <p>Band 4: QPSK, 20M: 17.71MHz QPSK, 80M: 76.41MHz</p> |



| | |
|---|---|
| Maximum Conducted Output Power | For Antenna 1: |
| | Band 1: QPSK, 20M: 27.15MHz QPSK, 80M: 18.98MHz |
| Band 4: QPSK, 20M: 26.95MHz QPSK, 80M: 21.86MHz | For Antenna 2: |
| | Band 1: QPSK, 20M: 20.08MHz QPSK, 80M: 6.85MHz |
| Carrier Frequencies | Band 4: QPSK, 20M: 13.00MHz QPSK, 80M: 9.17MHz |
| | Please refer to section 3.4 |
| Antenna | Please refer to section 3.3 |

| Items | Description |
|----------------------|---|
| Communication Mode | <input checked="" type="checkbox"/> IP Based (Load Based) <input type="checkbox"/> Frame Based |
| Beamforming Function | <input type="checkbox"/> With beamforming <input checked="" type="checkbox"/> Without beamforming |
| Operate Condition | <input type="checkbox"/> Indoor <input checked="" type="checkbox"/> Outdoor |

Antenna and Bandwidth

| Antenna | TWO (TX) | |
|----------------|----------|--------|
| Bandwidth Mode | 20 MHz | 80 MHz |
| QPSK | V | V |

3.2. Accessories

N/A

3.3. Table for Filed Antenna

| Ant. | Port | Brand | Model Name | Antenna Type | Connector | Gain (dB) |
|------|------|-------|------------|-----------------|-----------|-----------|
| 1 | 1 | - | - | Printed Antenna | N/A | 2 |
| | 2 | - | - | Printed Antenna | N/A | 2 |
| 2 | 1 | - | - | Printed Antenna | N/A | 22 |
| | 2 | - | - | Printed Antenna | N/A | 22 |

Note: Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.



3.4. Table for Carrier Frequencies

There are two bandwidth systems.

For 20MHz bandwidth systems:

| Frequency Band | Channel No. | Frequency | Channel No. | Frequency |
|-------------------------|-------------|-----------|-------------|-----------|
| 5150~5250 MHz Band 1 | 1 | 5180 MHz | 8 | 5215 MHz |
| | 2 | 5185 MHz | 9 | 5220 MHz |
| | 3 | 5190 MHz | 10 | 5225 MHz |
| | 4 | 5195 MHz | 11 | 5230 MHz |
| | 5 | 5200 MHz | 12 | 5235 MHz |
| | 6 | 5205 MHz | 13 | 5240 MHz |
| | 7 | 5210 MHz | - | - |
| 5725~5850 MHz Band 4 | 1 | 5745 MHz | 10 | 5790 MHz |
| | 2 | 5750 MHz | 11 | 5795 MHz |
| | 3 | 5755 MHz | 12 | 5800 MHz |
| | 4 | 5760 MHz | 13 | 5805 MHz |
| | 5 | 5765 MHz | 14 | 5810 MHz |
| | 6 | 5770 MHz | 15 | 5815 MHz |
| | 7 | 5775 MHz | 16 | 5820 MHz |
| | 8 | 5780 MHz | 17 | 5825 MHz |
| | 9 | 5785 MHz | - | - |

For 80MHz bandwidth systems:

| Frequency Band | Channel No. | Frequency | Channel No. | Frequency |
|-------------------------|-------------|-----------|-------------|-----------|
| 5150~5250 MHz Band 1 | 1 | 5190 MHz | 4 | 5205 MHz |
| | 2 | 5195 MHz | 5 | 5210 MHz |
| | 3 | 5200 MHz | - | - |
| 5725~5850 MHz Band 4 | 1 | 5765 MHz | 10 | 5790 MHz |
| | 2 | 5770 MHz | 11 | 5795 MHz |
| | 3 | 5775 MHz | 12 | 5800 MHz |
| | 4 | 5780 MHz | 13 | 5805 MHz |
| | 5 | 5785 MHz | - | - |

Note: Antenna 2 can't support 5190 MHz and 5195 MHz.



3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. The following table is a list of the test modes shown in this test report.

For Antenna 1:

| Test Items | Mode | | Frequency | Port |
|--|-----------|--------|--------------------|------|
| AC Power Conducted Emission | CTX | | - | - |
| Max. Conducted Output Power | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5190 / 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Power Spectral Density | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5190 / 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| 26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5190 / 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| 6dB Spectrum Bandwidth Measurement | QPSK, 20M | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Radiated Emission Below 1GHz | CTX | | - | - |
| Radiated Emission Above 1GHz | 20 MHz | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | 80 MHz | Band 1 | 5190 / 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Band Edge Emission | 20 MHz | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | 80 MHz | Band 1 | 5190 / 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Frequency Stability | 20 MHz | Band 1 | 5200 | 2 |
| | | Band 4 | 5785 | 2 |
| | 80 MHz | Band 1 | 5210 | 2 |
| | | Band 4 | 5765 | 2 |



For Antenna 2:

| Test Items | Mode | | Frequency | Port |
|--|-----------|--------|--------------------|------|
| AC Power Conducted Emission | CTX | | - | - |
| Max. Conducted Output Power | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Power Spectral Density | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| 26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| 6dB Spectrum Bandwidth Measurement | QPSK, 20M | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Radiated Emission Below 1GHz | CTX | | - | - |
| Radiated Emission Above 1GHz | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Band Edge Emission | QPSK, 20M | Band 1 | 5180 / 5200 / 5240 | 1+2 |
| | | Band 4 | 5745 / 5785 / 5825 | 1+2 |
| | QPSK, 80M | Band 1 | 5200 / 5210 | 1+2 |
| | | Band 4 | 5765 / 5785 / 5805 | 1+2 |
| Frequency Stability | 20 MHz | Band 1 | 5200 | 2 |
| | | Band 4 | 5785 | 2 |
| | 80 MHz | Band 1 | 5210 | 2 |
| | | Band 4 | 5765 | 2 |

The following test modes were performed for all tests:

For Conducted Emission test:

Test Mode : CTX - EUT in Y axis

For Radiated Emission test:

Test Mode : CTX - EUT in Y axis



Note 1: The EUT was powered by PoE, and the PoE was for measurement only, would not be marketed.

PoE information as below:

| Support Unit | Brand | Model |
|--------------|------------------|--------------|
| PoE | Cambium Networks | NET-P30-56IN |

3.6. Table for Testing Locations

| Test Site Location | | | | | |
|--------------------|--|----------|---------------------|-------------|---------------|
| Address: | No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C. | | | | |
| TEL: | 886-3-656-9065 | | | | |
| FAX: | 886-3-656-9085 | | | | |
| Test Site No. | Site Category | Location | FCC Designation No. | IC File No. | VCCI Reg. No. |
| 03CH01-CB | SAC | Hsin Chu | TW0006 | IC 4086D | - |
| CO02-CB | Conduction | Hsin Chu | TW0006 | IC 4086D | - |
| TH01-CB | OVEN Room | Hsin Chu | - | - | - |

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

3.7. Table for Supporting Units

For Test Site No: CO02-CB

| Support Unit | Brand | Model | FCC ID |
|--------------|------------------|--------------|--------|
| NB | DELL | E6430 | DoC |
| PoE | Cambium Networks | NET-P30-56IN | DoC |

For Test Site No: TH01-CB / 03CH01-CB

| Support Unit | Brand | Model | FCC ID |
|--------------|------------------|--------------|--------|
| NB | DELL | E4300 | DoC |
| PoE | Cambium Networks | NET-P30-56IN | DoC |



3.8. Table for Parameters of Test Software Setting

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Antenna 1:

| Test Software Version | QCA | | | | | |
|-----------------------|----------------------|----------|----------|----------|----------|----------|
| Mode | Test Frequency (MHz) | | | | | |
| | 5180 MHz | 5200 MHz | 5240 MHz | 5745 MHz | 5785 MHz | 5825 MHz |
| 20M | 24 | 26 | 25 | 26 | 26 | 24.5 |
| Mode | 5190 MHz | 5200 MHz | 5210 MHz | 5765 MHz | 5785 MHz | 5805 MHz |
| 80M | 12 | 16.5 | 16.5 | 19 | 19.5 | 18.5 |

For Antenna 2:

| Test Software Version | QCA | | | | | |
|-----------------------|----------------------|----------|----------|----------|----------|----------|
| Mode | Test Frequency (MHz) | | | | | |
| | 5180 MHz | 5200 MHz | 5240 MHz | 5745 MHz | 5785 MHz | 5825 MHz |
| 20M | 14.5 | 19 | 17 | 12 | 9 | 5 |
| Mode | 5200 MHz | 5210 MHz | 5765 MHz | 5785 MHz | 5805 MHz | |
| 80M | 6 | 6 | 7 | 5.5 | 0 | |

3.9. EUT Operation during Test

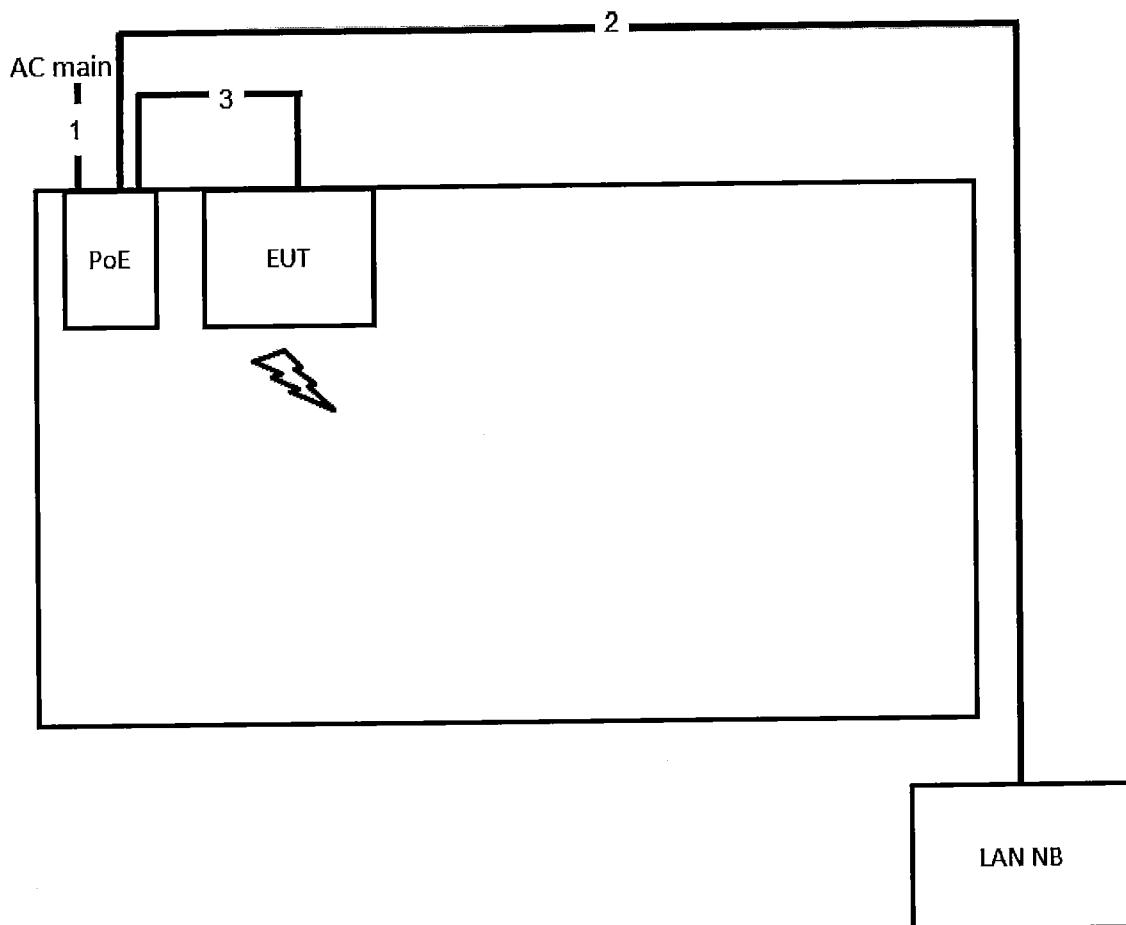
The EUT was programmed to be in continuously transmitting mode.

3.10. Duty Cycle

| Mode | On Time (ms) | On+Off Time (ms) | Duty Cycle (%) | Duty Factor (dB) | I/T Minimum VBW (kHz) |
|------|--------------|------------------|----------------|------------------|-----------------------|
| 20M | 5.029 | 5.073 | 99.14% | 0.04 | 0.01 |
| 80M | 1.159 | 1.217 | 95.24% | 0.21 | 0.86 |

3.11. Test Configurations

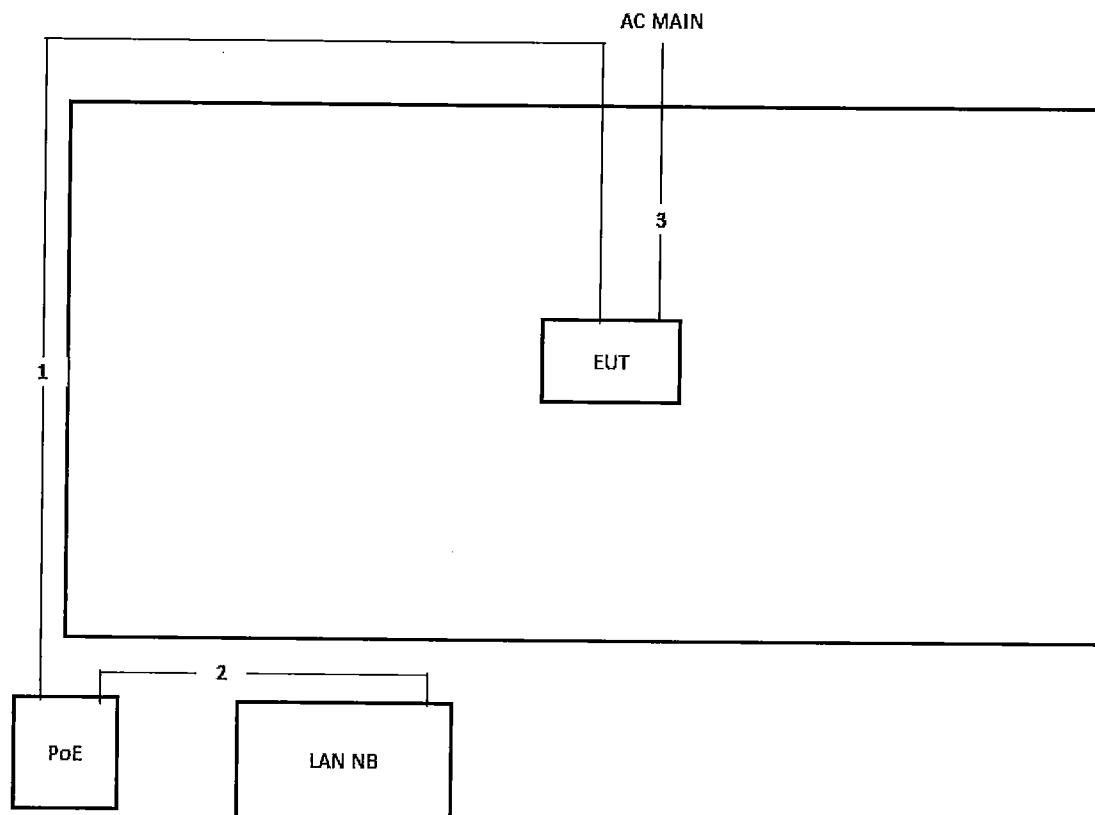
3.11.1. AC Power Line Conduction Emissions Test Configuration



| Item | Connection | Shielded | Length |
|------|-------------|----------|--------|
| 1 | Power cable | No | 0.9m |
| 2 | RJ-45 cable | No | 10m |
| 3 | RJ-45 cable | No | 1m |



3.11.2. Radiation Emissions Test Configuration



| Item | Connection | Shielded | Length |
|------|-------------|----------|--------|
| 1 | RJ-45 cable | No | 10m |
| 2 | RJ-45 cable | No | 1.5m |
| 3 | Power cable | No | 1.5m |



4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product that is designed to connect to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

| Frequency (MHz) | QP Limit (dBuV) | AV Limit (dBuV) |
|-----------------|-----------------|-----------------|
| 0.15~0.5 | 66~56 | 56~46 |
| 0.5~5 | 56 | 46 |
| 5~30 | 60 | 50 |

4.1.2. Measuring Instruments and Setting

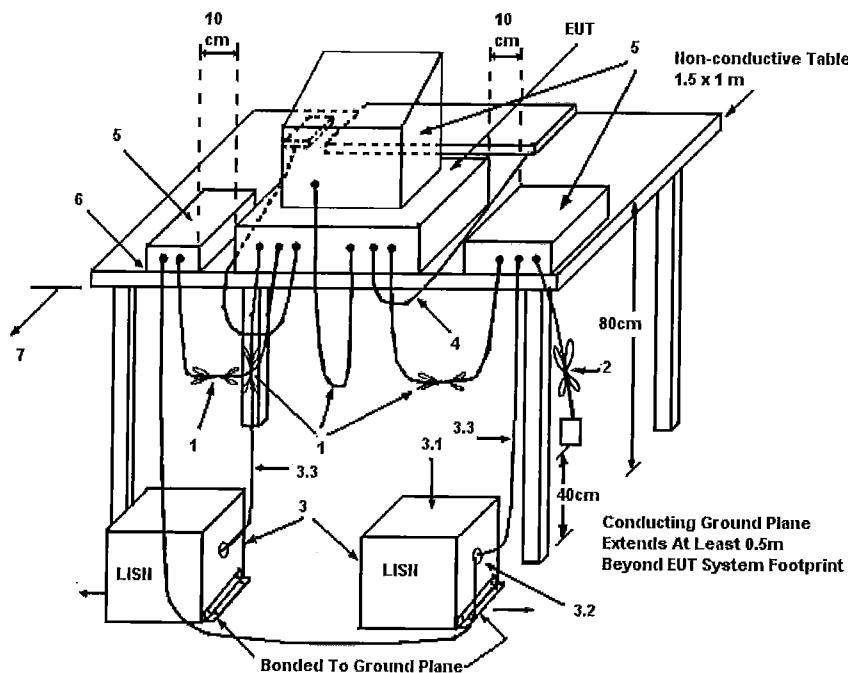
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

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

4.1.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference ground plane.
 - (3.1) All other equipment powered from additional LISN(s).
 - (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5. Test Deviation

There is no deviation with the original standard.

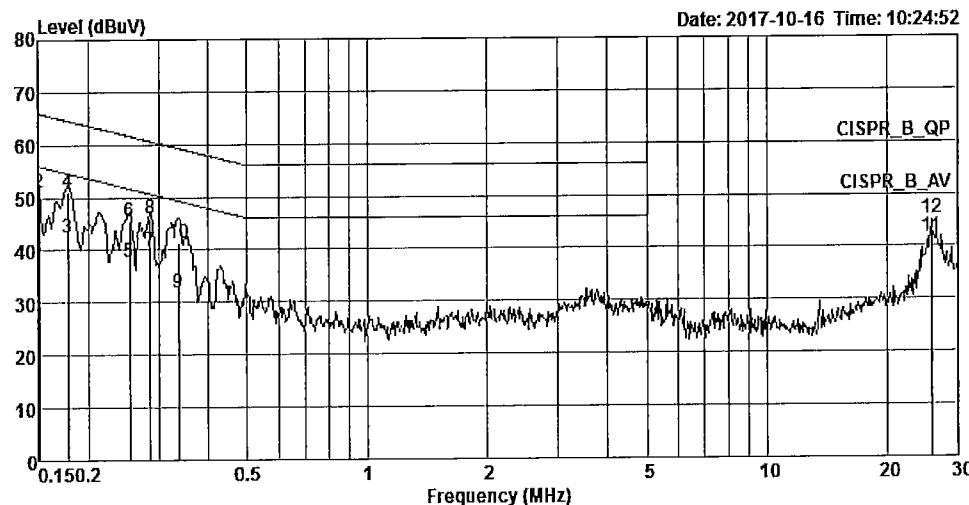
4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.



4.1.7. Results of AC Power Line Conducted Emissions Measurement

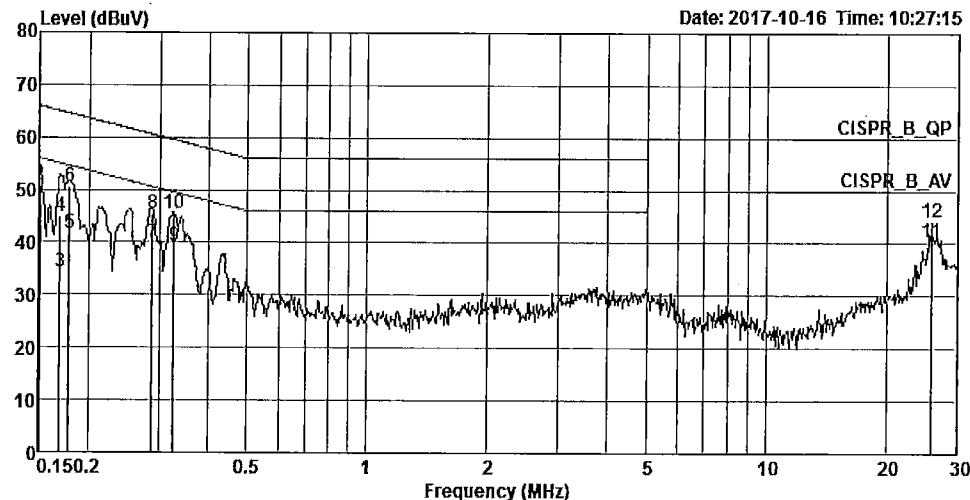
| | | | |
|---------------|---------|----------|------|
| Temperature | 24°C | Humidity | 55% |
| Test Engineer | Max Lin | Phase | Line |
| Configuration | CTX | | |



| Freq | Level | Over | Limit | Read | LISN | Cable | Pol/Phase | |
|------|---------|-------|--------|-------|--------|-------|--------------|------|
| | | Line | dBuV | Level | Factor | Loss | | |
| MHz | dBuV | dB | dBuV | dB | dB | dB | | |
| 1 | 0.1500 | 38.79 | -17.21 | 56.00 | 28.80 | 9.95 | 0.04 Average | LINE |
| 2 | 0.1500 | 51.18 | -14.82 | 66.00 | 41.19 | 9.95 | 0.04 QP | LINE |
| 3 | 0.1777 | 42.48 | -12.11 | 54.59 | 32.49 | 9.94 | 0.05 Average | LINE |
| 4 | 0.1777 | 50.96 | -13.63 | 64.59 | 40.97 | 9.94 | 0.05 QP | LINE |
| 5 | 0.2535 | 37.69 | -13.95 | 51.64 | 27.72 | 9.92 | 0.05 Average | LINE |
| 6 | 0.2535 | 45.43 | -16.21 | 61.64 | 35.46 | 9.92 | 0.05 QP | LINE |
| 7 | 0.2863 | 39.99 | -10.64 | 50.63 | 30.03 | 9.91 | 0.05 Average | LINE |
| 8 | 0.2863 | 45.96 | -14.67 | 60.63 | 36.00 | 9.91 | 0.05 QP | LINE |
| 9 | 0.3374 | 32.00 | -17.27 | 49.27 | 22.06 | 9.90 | 0.04 Average | LINE |
| 10 | 0.3374 | 41.31 | -17.96 | 59.27 | 31.37 | 9.90 | 0.04 QP | LINE |
| 11 | 25.8724 | 41.60 | -8.40 | 50.00 | 31.00 | 10.32 | 0.28 Average | LINE |
| 12 | 25.8724 | 45.09 | -14.91 | 60.00 | 34.49 | 10.32 | 0.28 QP | LINE |



| | | | |
|---------------|---------|----------|---------|
| Temperature | 24°C | Humidity | 55% |
| Test Engineer | Max Lin | Phase | Neutral |
| Configuration | CTX | | |



| Freq | Level | Over | Limit | Read | LISN | Cable | Remark | Pol/Phase |
|------|---------|-------|--------|-------|--------|-------|--------------|-----------|
| | | Limit | Line | Level | Factor | Loss | | |
| MHz | dBuV | dB | dBuV | dBuV | dB | dB | | |
| 1 | 0.1500 | 39.40 | -16.60 | 56.00 | 29.42 | 9.94 | 0.04 Average | NEUTRAL |
| 2 | 0.1500 | 50.82 | -15.18 | 66.00 | 40.84 | 9.94 | 0.04 QP | NEUTRAL |
| 3 | 0.1694 | 34.12 | -20.87 | 54.99 | 24.12 | 9.96 | 0.04 Average | NEUTRAL |
| 4 | 0.1694 | 44.91 | -20.08 | 64.99 | 34.91 | 9.96 | 0.04 QP | NEUTRAL |
| 5 | 0.1787 | 41.64 | -12.91 | 54.55 | 31.63 | 9.96 | 0.05 Average | NEUTRAL |
| 6 | 0.1787 | 50.51 | -14.04 | 64.55 | 40.50 | 9.96 | 0.05 QP | NEUTRAL |
| 7 | 0.2878 | 39.72 | -10.87 | 50.59 | 29.70 | 9.97 | 0.05 Average | NEUTRAL |
| 8 | 0.2878 | 45.55 | -15.04 | 60.59 | 35.53 | 9.97 | 0.05 QP | NEUTRAL |
| 9 | 0.3268 | 39.30 | -10.23 | 49.53 | 29.29 | 9.97 | 0.04 Average | NEUTRAL |
| 10 | 0.3268 | 45.41 | -14.12 | 59.53 | 35.40 | 9.97 | 0.04 QP | NEUTRAL |
| 11 | 25.8700 | 40.58 | -9.42 | 50.00 | 29.98 | 10.32 | 0.28 Average | NEUTRAL |
| 12 | 25.8700 | 44.42 | -15.58 | 60.00 | 33.82 | 10.32 | 0.28 QP | NEUTRAL |

Note:

Level = Read Level + LISN Factor + Cable Loss.



4.2. 26dB Bandwidth and 99% Occupied Bandwidth Measurement

4.2.1. Limit

No restriction limits.

4.2.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

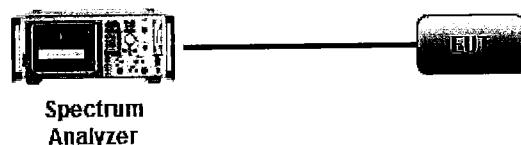
| 26dB Bandwidth | |
|---------------------|--|
| Spectrum Parameters | Setting |
| Attenuation | Auto |
| Span Frequency | > 26dB Bandwidth |
| RBW | Approximately 1% of the emission bandwidth |
| VBW | VBW > RBW |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

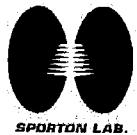
| 99% Occupied Bandwidth | |
|------------------------|--------------------------------|
| Spectrum Parameters | Setting |
| Span | 1.5 times to 5.0 times the OBW |
| RBW | 1 % to 5 % of the OBW |
| VBW | $\geq 3 \times$ RBW |
| Detector | Peak |
| Trace | Max Hold |

4.2.3. Test Procedures

| Test Method |
|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: |
| <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| <input checked="" type="checkbox"/> Refer as IC RSS-Gen, clause 4.6 for bandwidth testing. |

4.2.4. Test Setup Layout





4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



SPARTON LAB.

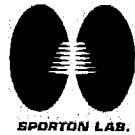
Report No.: FR701623

4.2.7. Test Result of 26dB Bandwidth and 99% Occupied Bandwidth

| | | | |
|---------------|-----------|----------|-----|
| Temperature | 27.1°C | Humidity | 79% |
| Test Engineer | Ron Huang | | |

For Antenna 1:

| Mode | Frequency | 26dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|------|-----------|-------------------------|------------------------------------|-------------------------|------------------------------------|
| | | Port 1 | Port 2 | Port 1 | Port 2 |
| 20M | 5180 MHz | 20.17 | 17.54 | 21.13 | 17.71 |
| | 5200 MHz | 30.17 | 18.50 | 35.30 | 19.71 |
| | 5240 MHz | 29.91 | 17.97 | 45.39 | 29.70 |
| | 5745 MHz | 51.48 | 37.77 | 47.22 | 31.69 |
| | 5785 MHz | 50.70 | 36.99 | 48.26 | 33.34 |
| | 5825 MHz | 43.83 | 26.92 | 48.26 | 32.91 |
| 80M | 5190 MHz | 78.55 | 68.02 | 78.55 | 65.70 |
| | 5200 MHz | 79.71 | 73.52 | 78.55 | 70.91 |
| | 5210 MHz | 80.87 | 74.96 | 79.42 | 73.23 |
| | 5765 MHz | 84.06 | 75.83 | 83.48 | 75.83 |
| | 5785 MHz | 83.77 | 75.83 | 83.19 | 76.12 |
| | 5805 MHz | 83.77 | 75.83 | 83.48 | 76.12 |



SPARTON LAB.

Report No.: FR7O1623

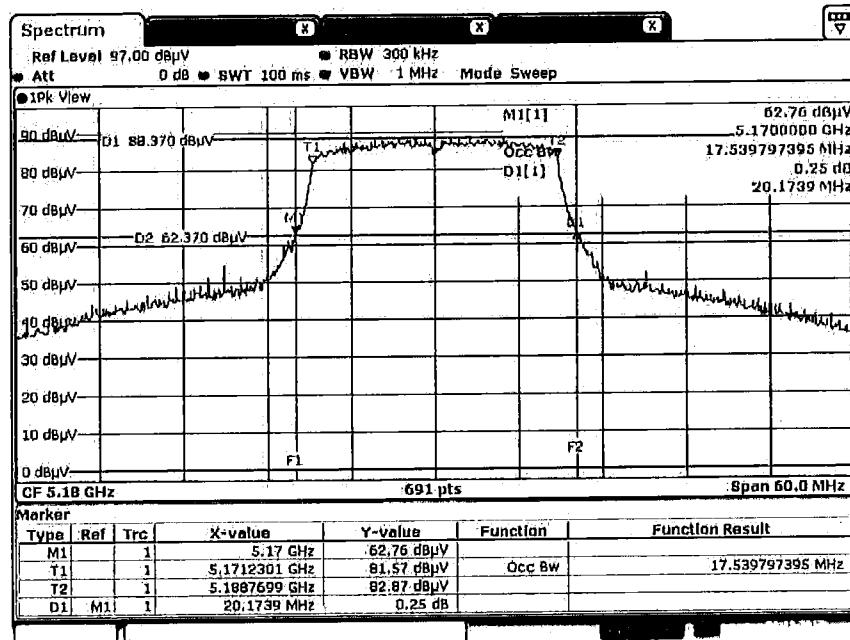
For Antenna 2:

| Mode | Frequency | 26dB Bandwidth | 99% Occupied Bandwidth | 26dB Bandwidth | 99% Occupied Bandwidth |
|------|-----------|----------------|------------------------|----------------|------------------------|
| | | (MHz) | (MHz) | (MHz) | (MHz) |
| 20M | 5180 MHz | 19.65 | 17.37 | 20.09 | 17.54 |
| | 5200 MHz | 20.70 | 17.71 | 20.17 | 17.54 |
| | 5240 MHz | 20.70 | 17.71 | 20.70 | 17.63 |
| | 5745 MHz | 20.78 | 17.63 | 20.87 | 17.63 |
| | 5785 MHz | 20.70 | 17.63 | 20.35 | 17.63 |
| | 5825 MHz | 20.52 | 17.71 | 20.87 | 17.71 |
| 80M | 5200 MHz | 79.42 | 73.81 | 78.84 | 71.20 |
| | 5210 MHz | 80.87 | 75.54 | 79.42 | 72.94 |
| | 5765 MHz | 83.77 | 76.12 | 82.90 | 75.54 |
| | 5785 MHz | 83.48 | 76.12 | 83.19 | 76.12 |
| | 5805 MHz | 84.06 | 76.12 | 84.93 | 76.41 |

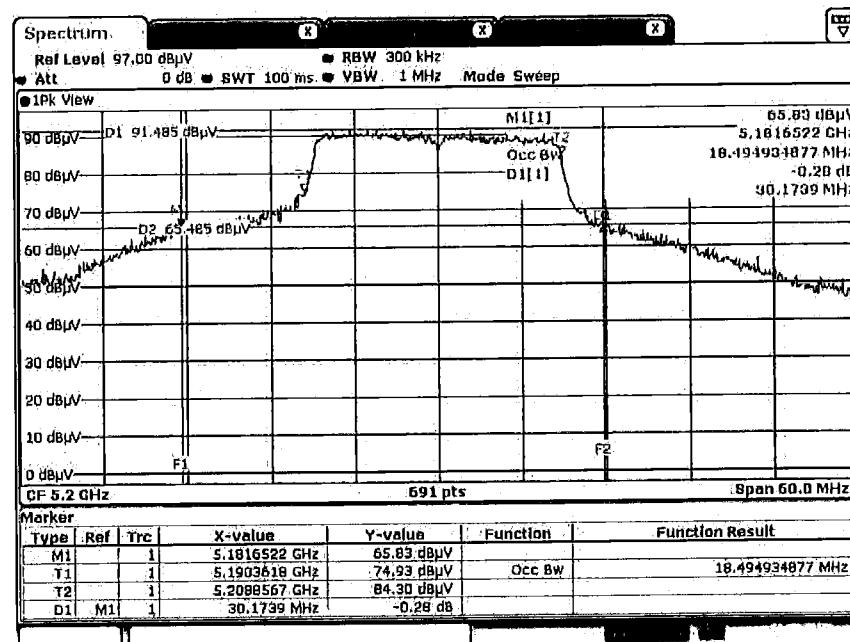


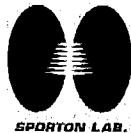
For Antenna 1:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5180 MHz

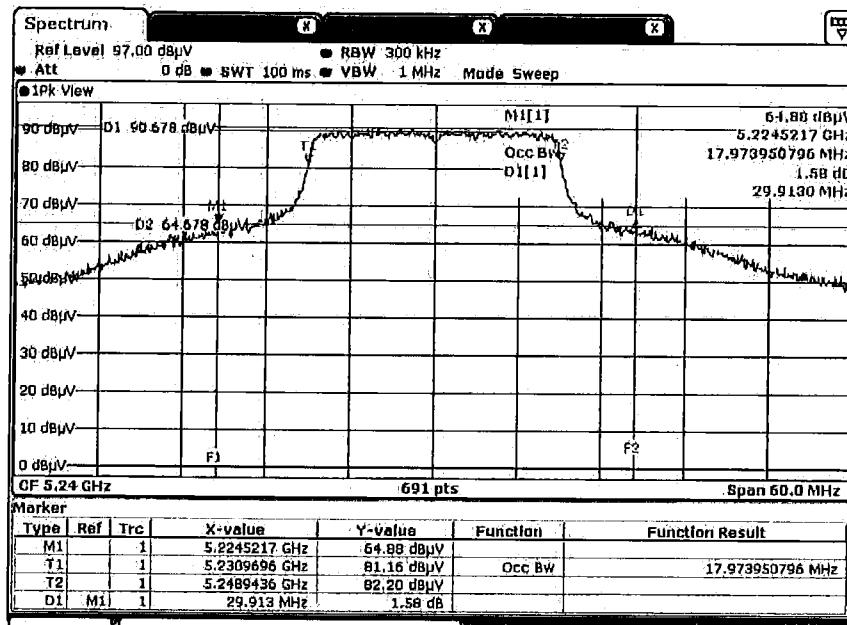


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5200 MHz



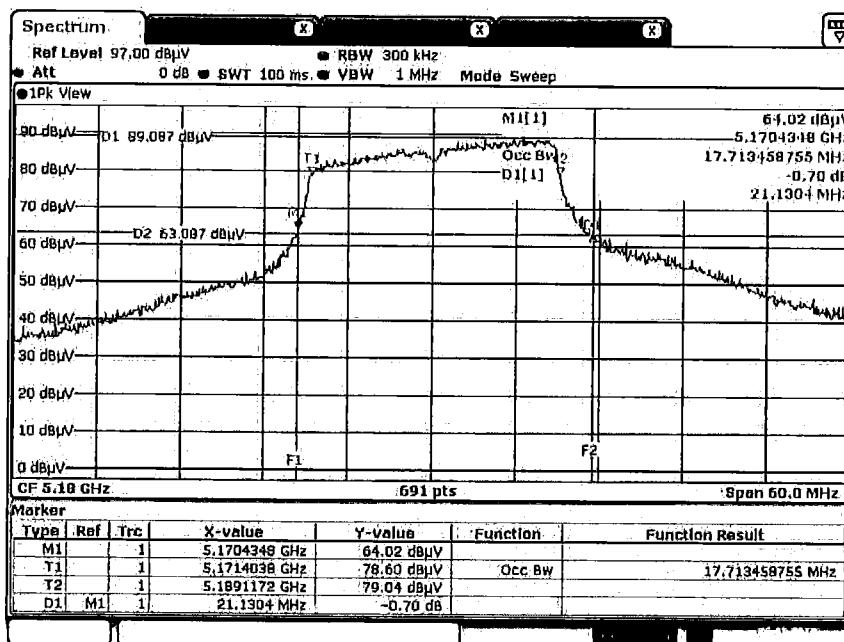


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5240 MHz



Date: 6.OCT.2017 17:09:12

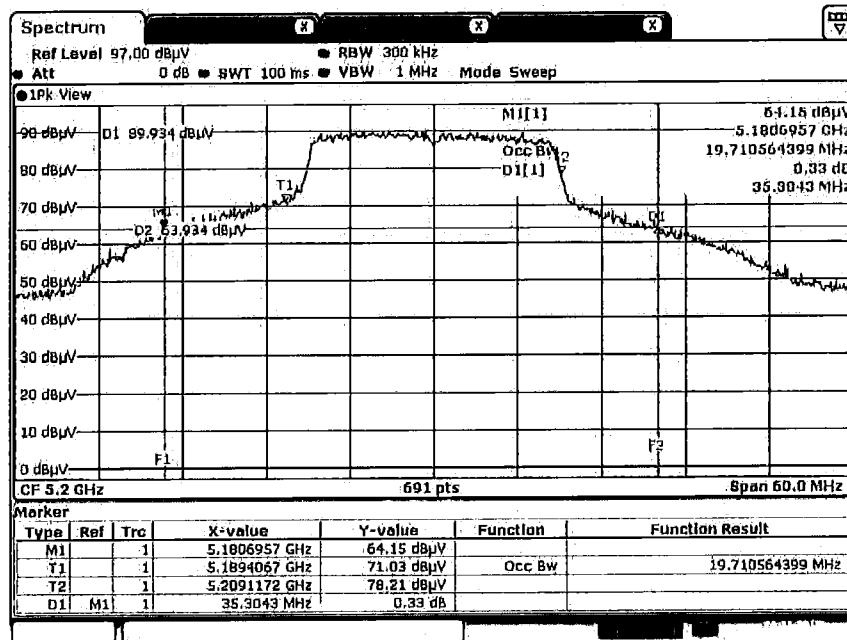
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5180 MHz



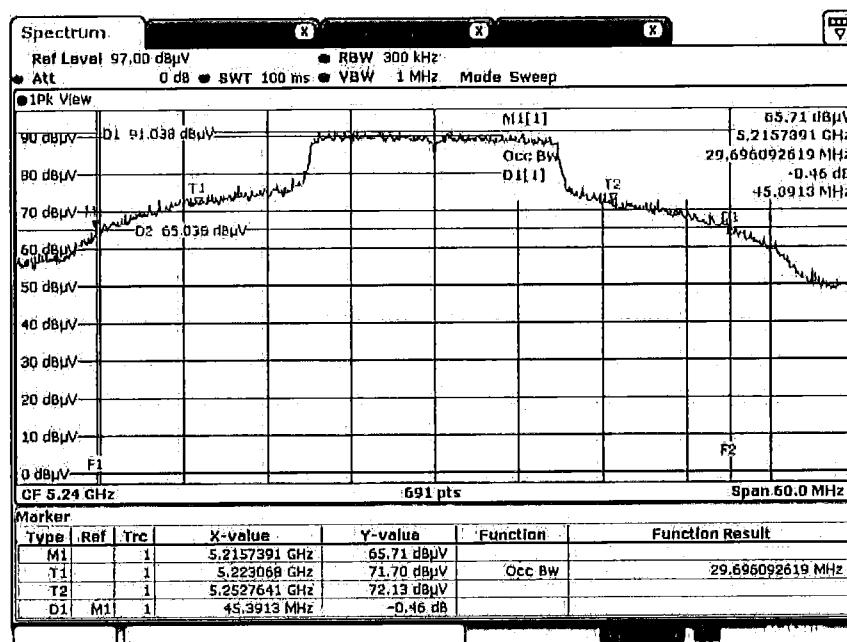
Date: 6.OCT.2017 17:02:28



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5200 MHz

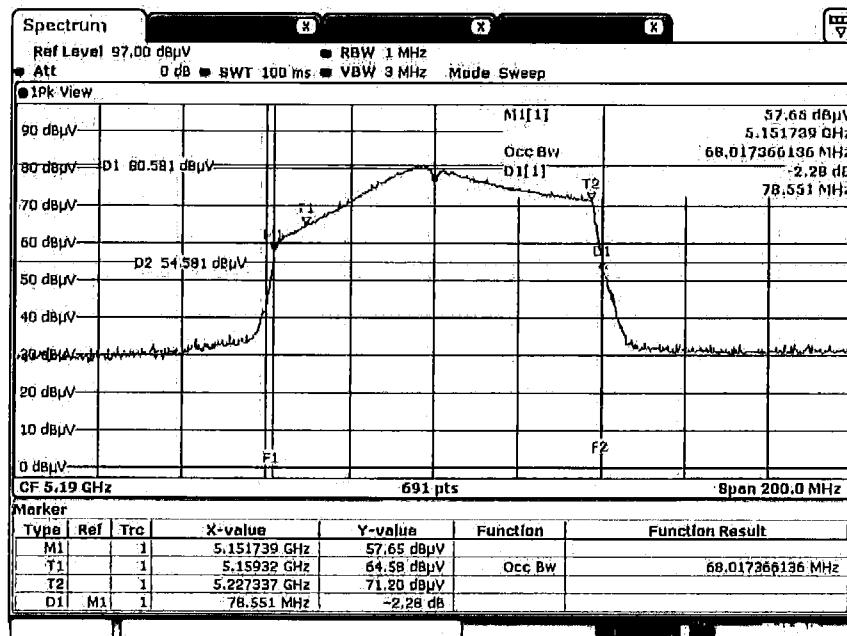


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5240 MHz

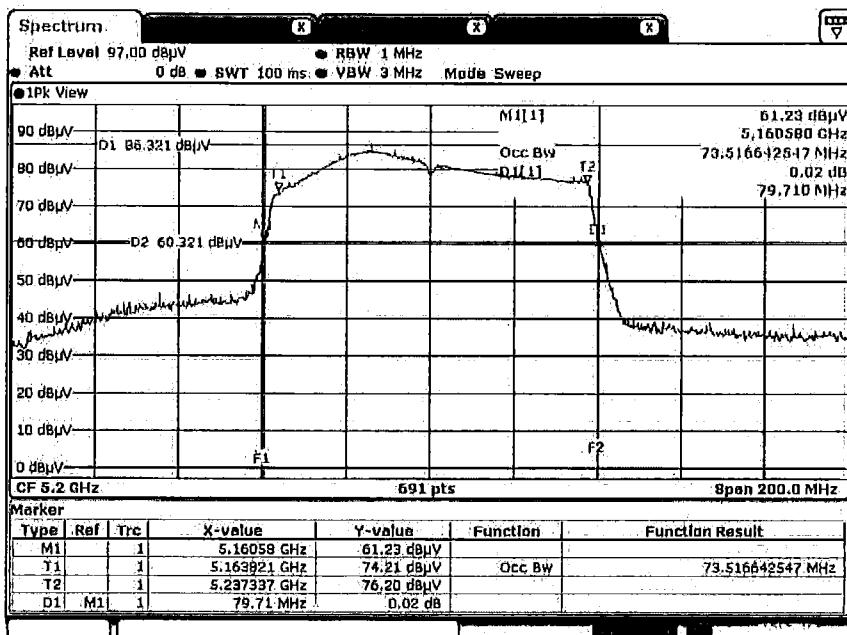




26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5190 MHz

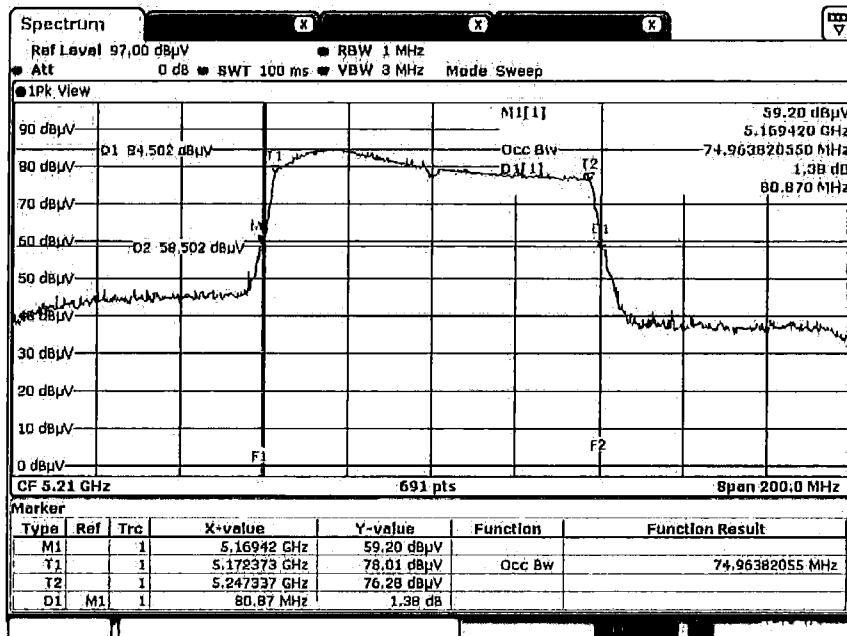


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5200 MHz



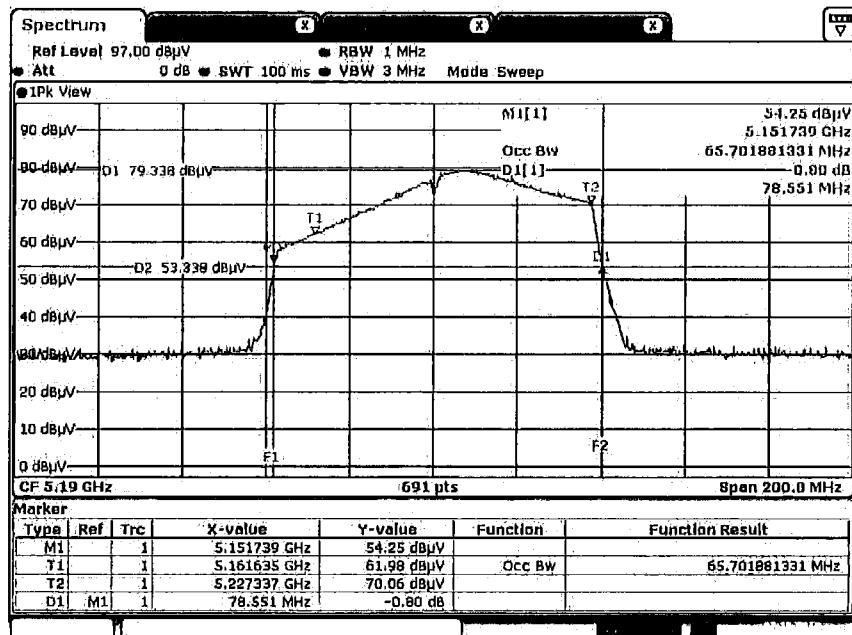


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5210 MHz



Date: 7.OCT.2017 06:52:05

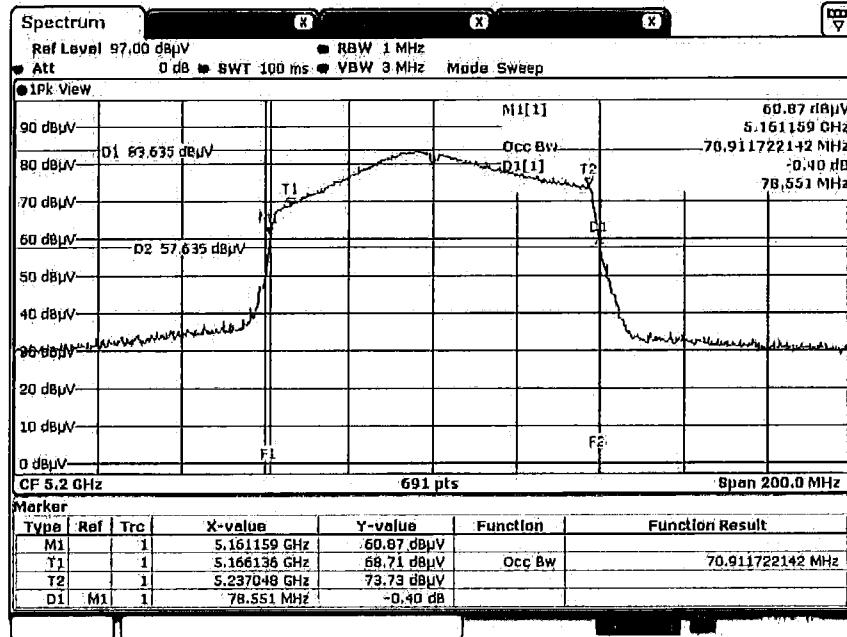
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5190 MHz



Date: 7.OCT.2017 07:20:06

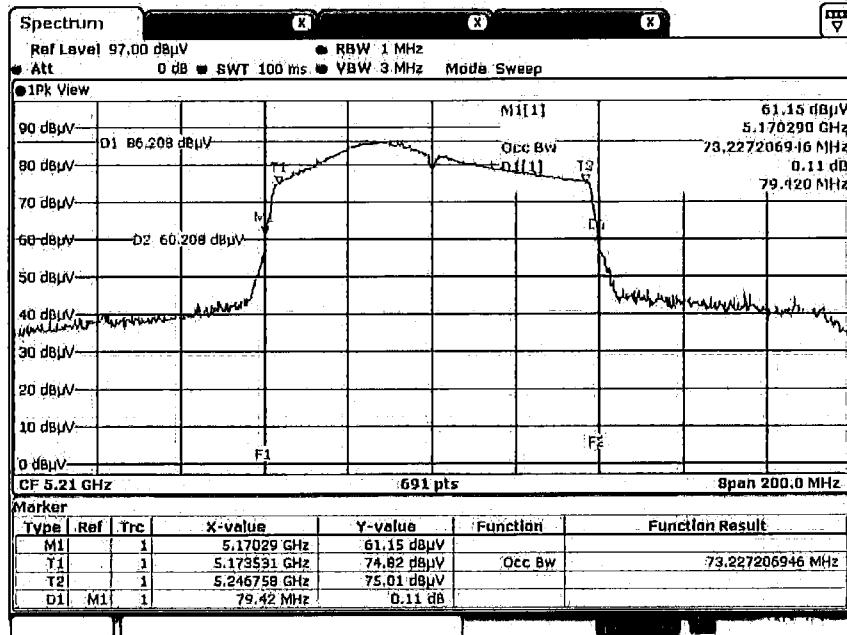


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5200 MHz

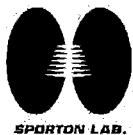


Date: 7.OCT.2017 07:21:43

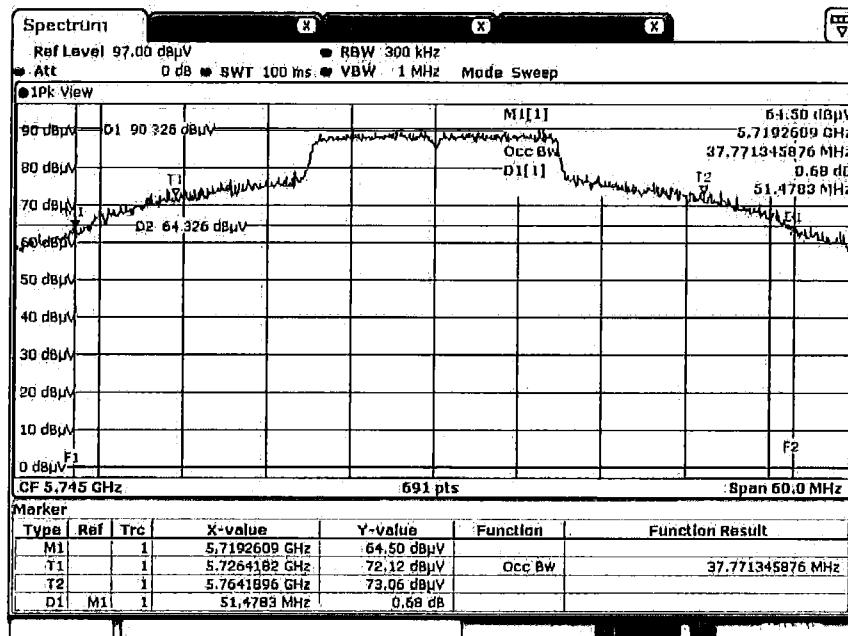
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5210 MHz



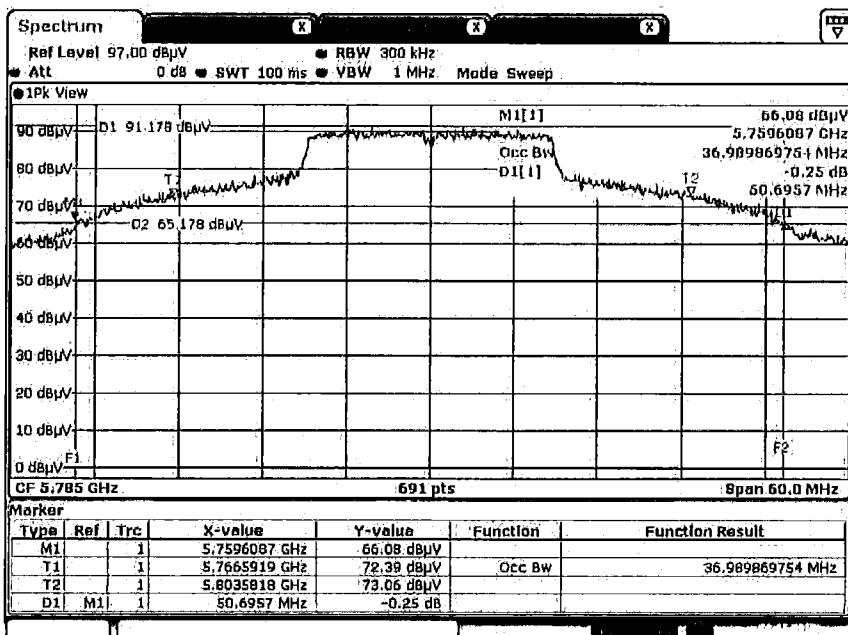
Date: 7.OCT.2017 07:22:13



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5745 MHz

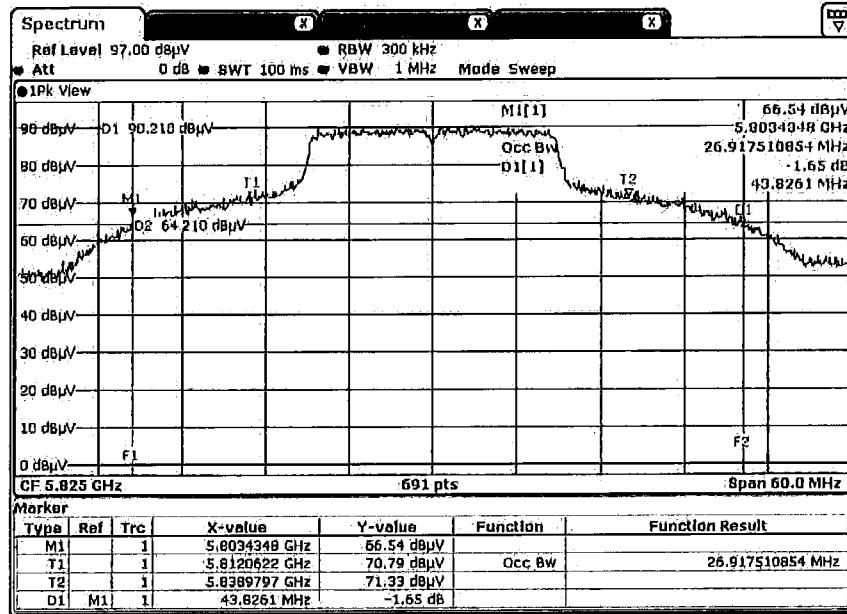


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5785 MHz



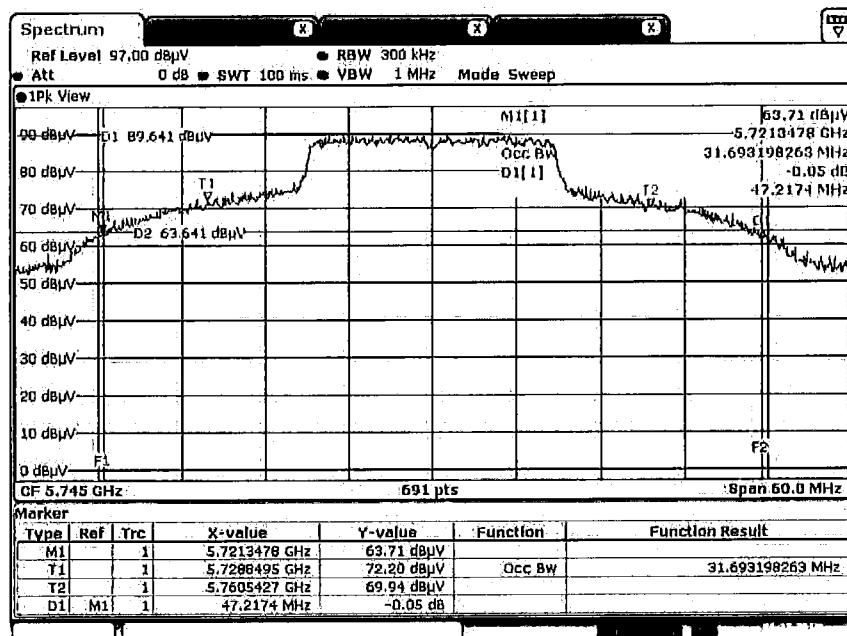


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5825 MHz



Date: 6.OCT.2017 17:38:23

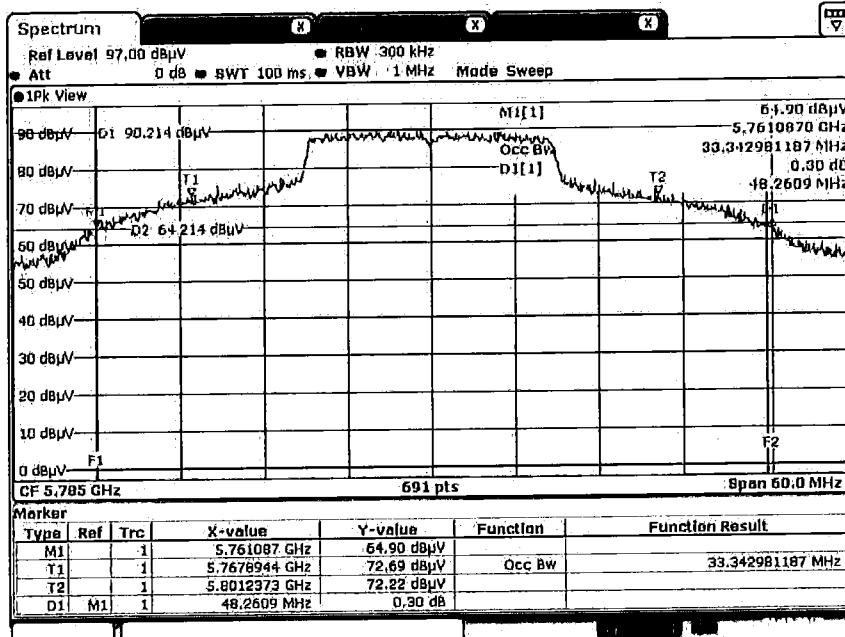
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5745 MHz



Date: 6.OCT.2017 18:06:16

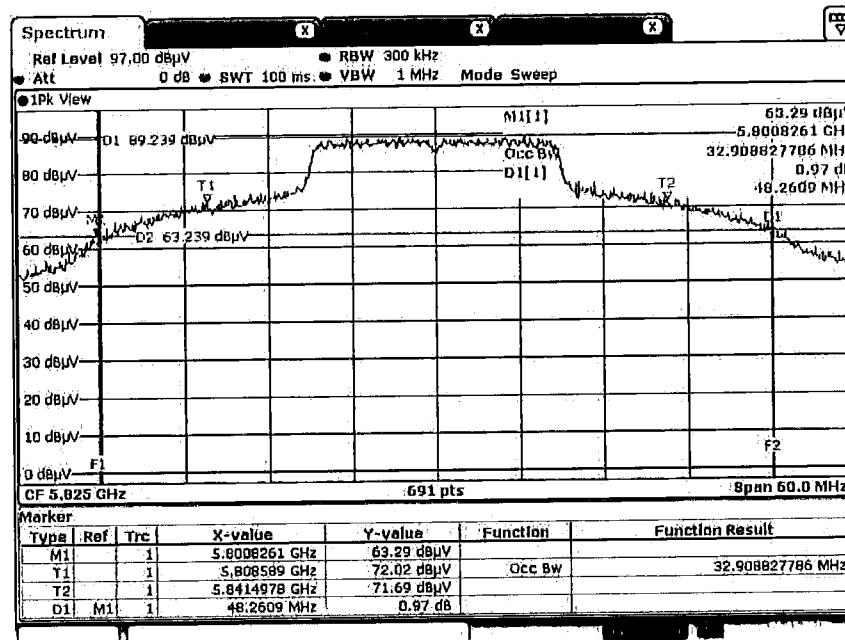


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5785MHz

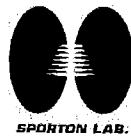


Date: 6.OCT.2017 18:05:50

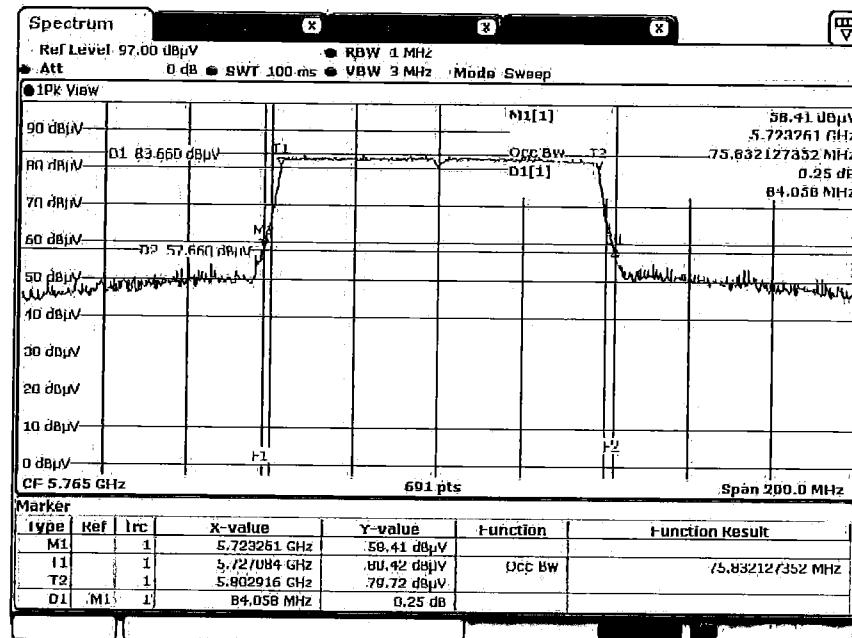
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5825 MHz



Date: 6.OCT.2017 17:57:31

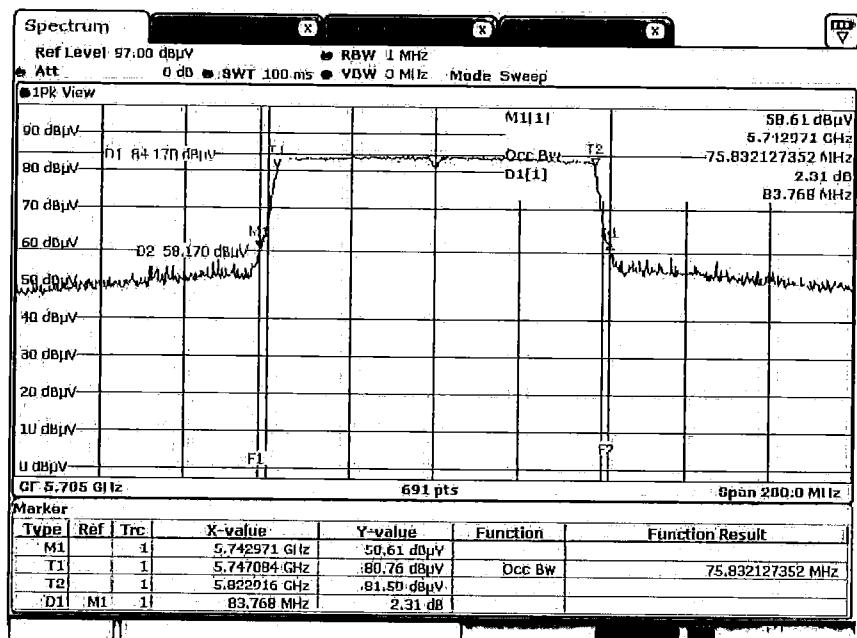


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5765 MHz



Date: 7.OCT.2017 07:04:38

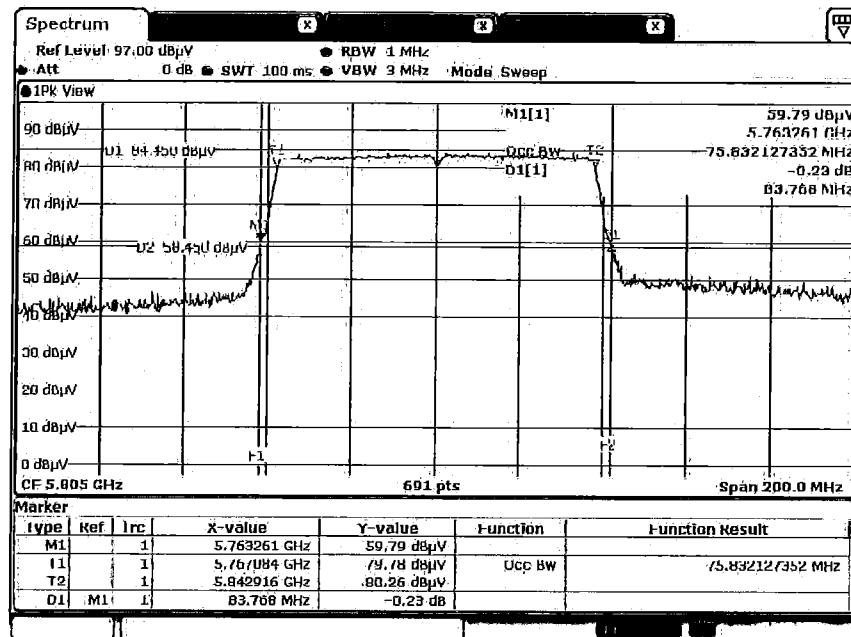
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5785 MHz



Date: 7.OCT.2017 07:10:12

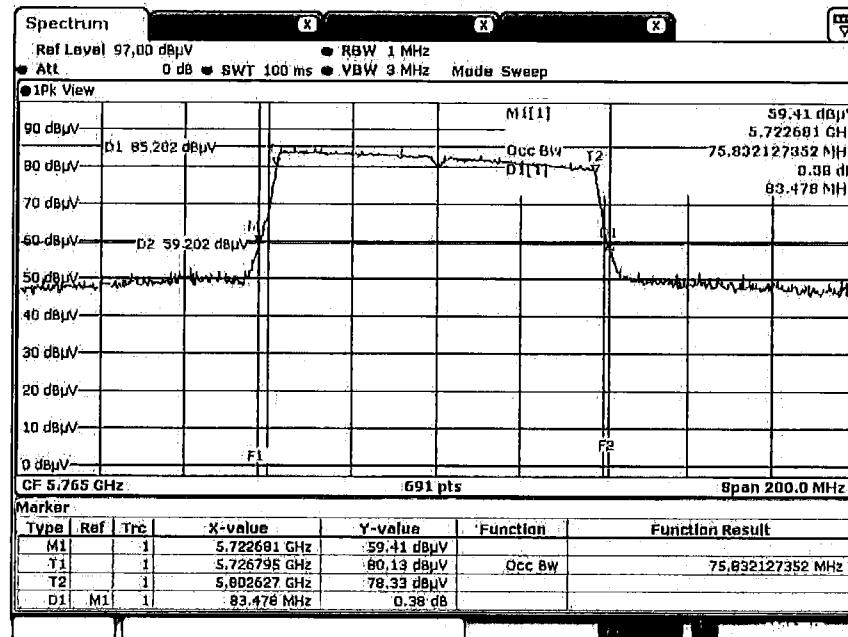


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5805 MHz

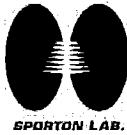


Date: 7.OCT.2017 07:09:34

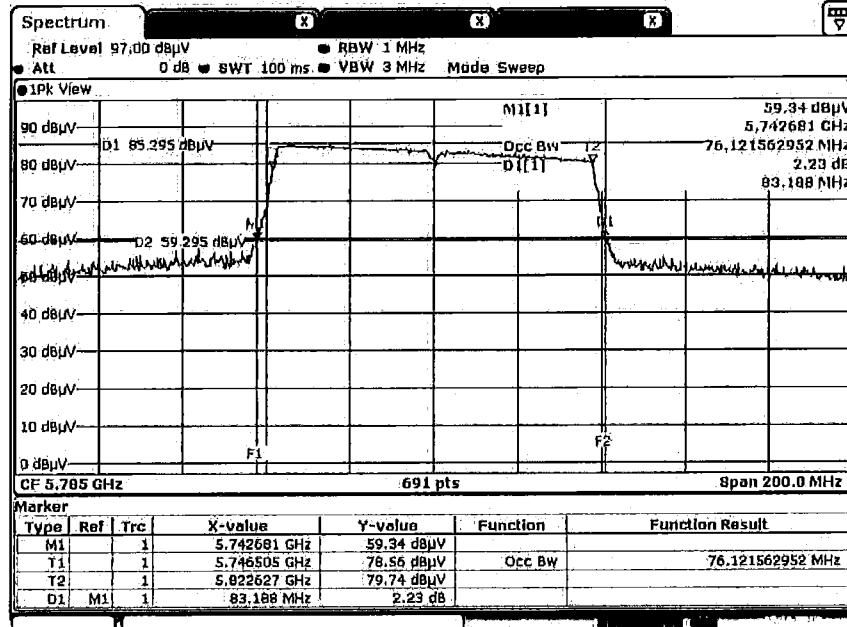
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5765 MHz



Date: 7.OCT.2017 07:14:08

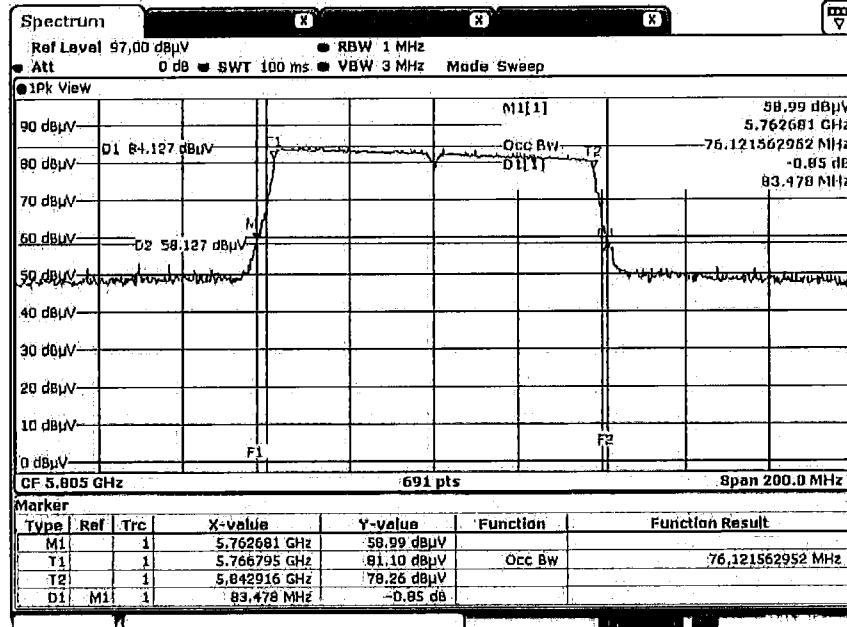


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5785MHz



Date: 7.OCT.2017 07:12:28

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5805 MHz

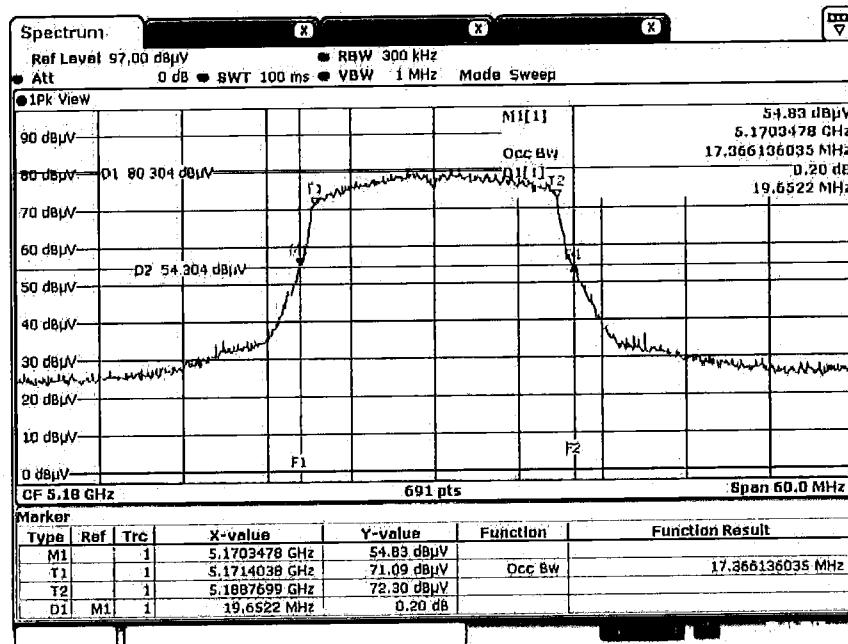


Date: 7.OCT.2017 07:13:42

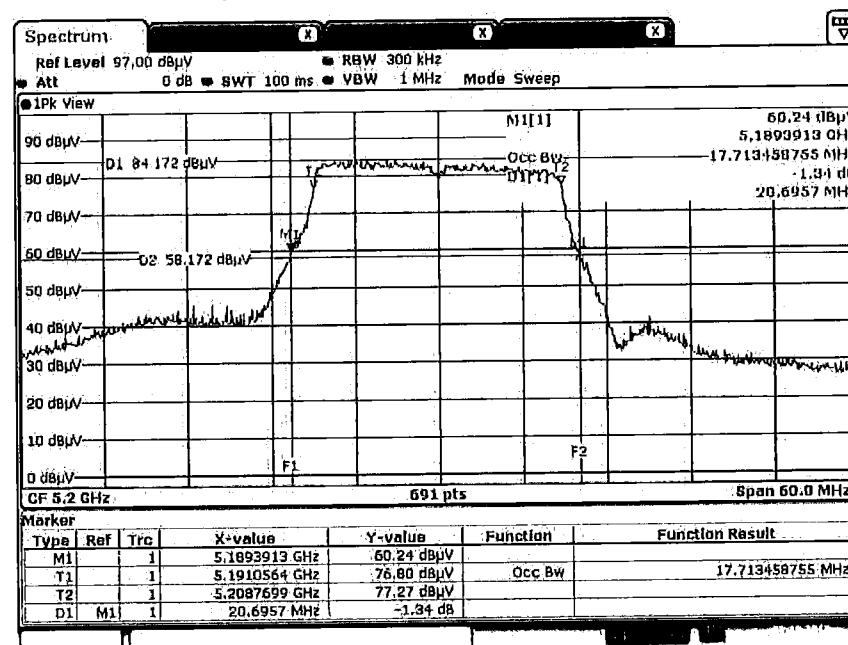


For Antenna 2:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5180 MHz

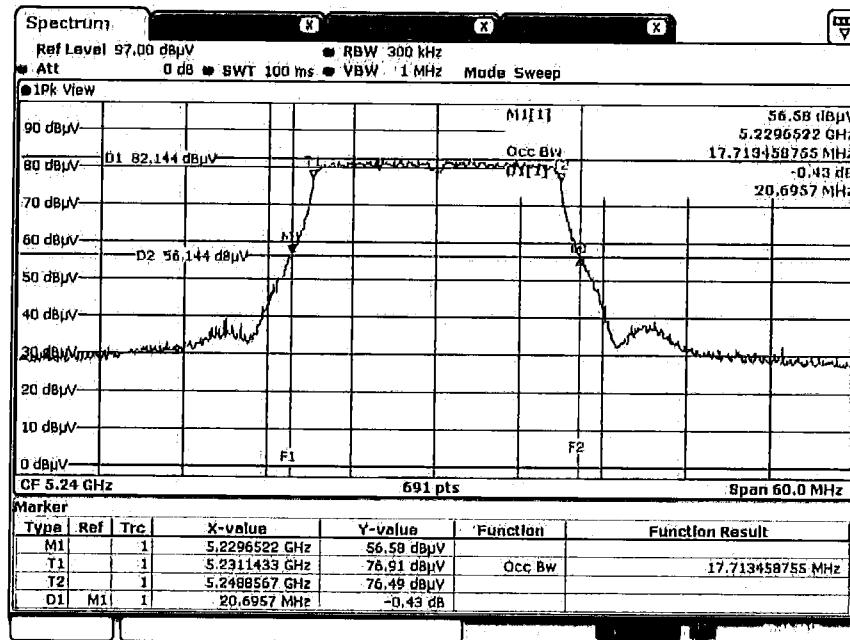


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5200 MHz



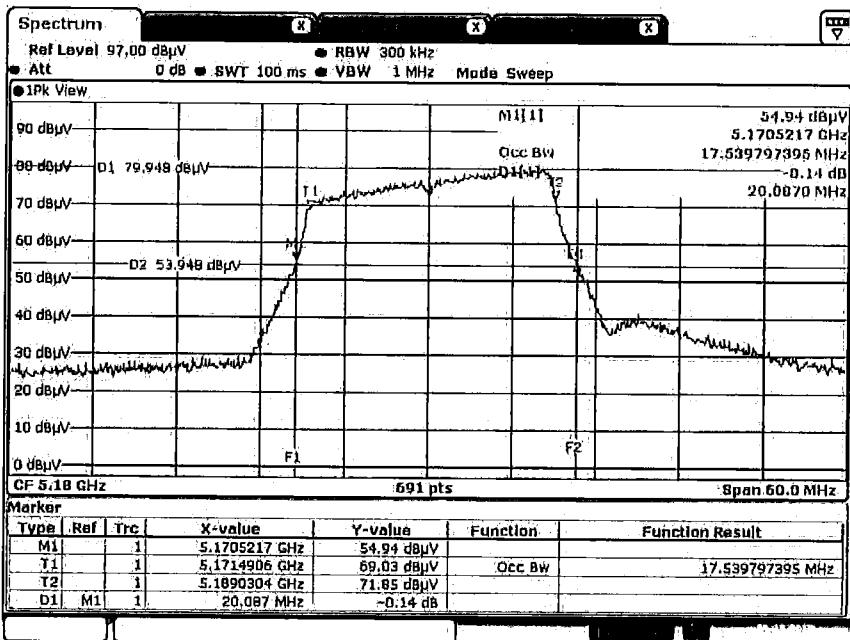


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5240 MHz



Date: 5.OCT.2017 16:26:55

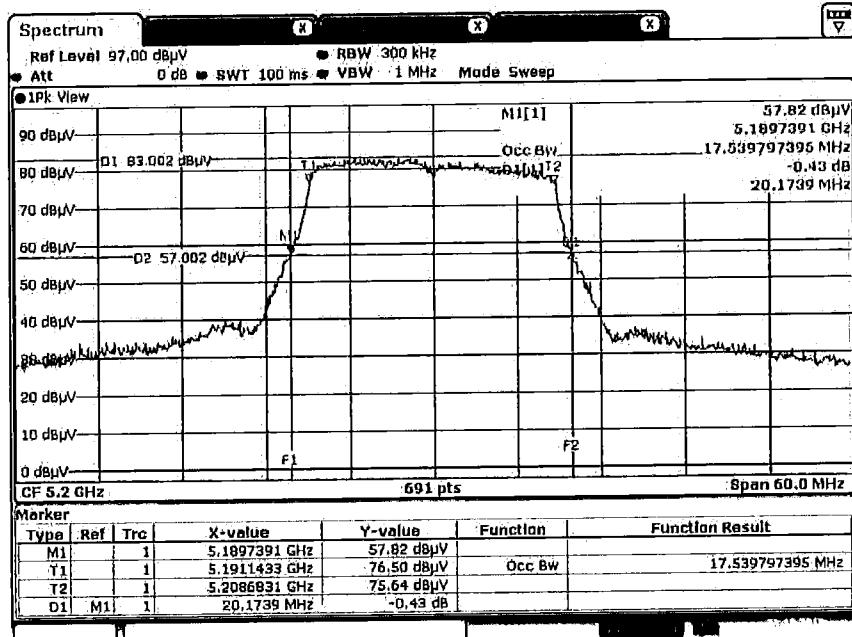
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5180 MHz



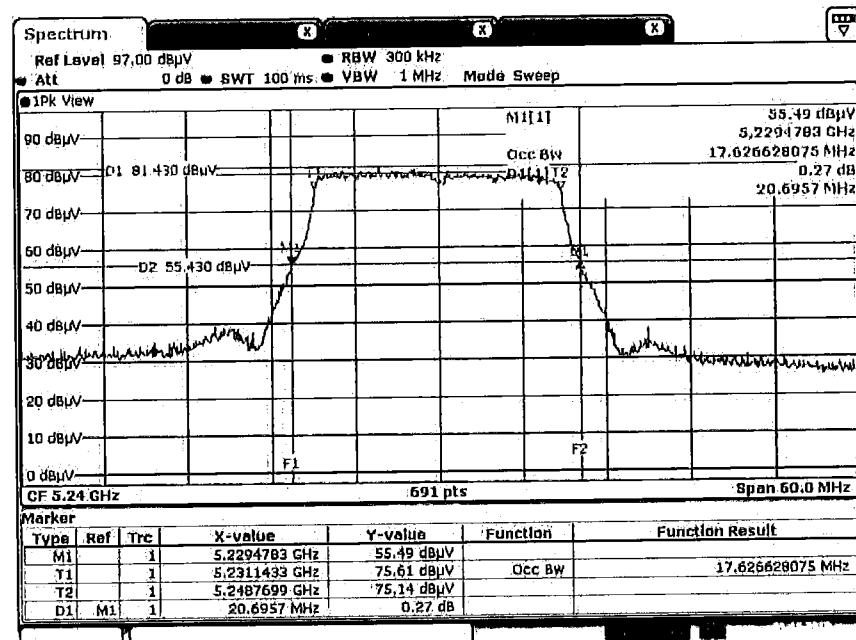
Date: 5.OCT.2017 16:26:51



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5200 MHz

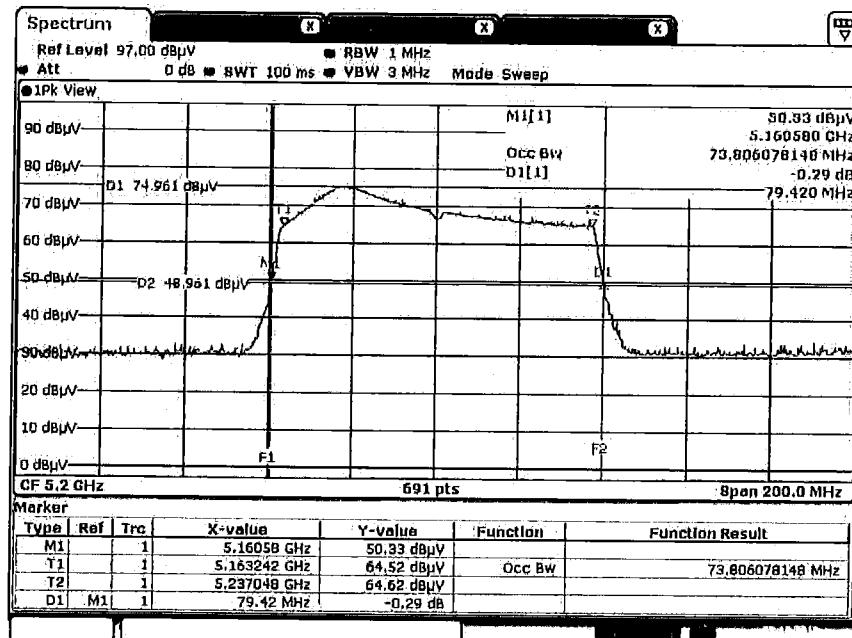


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5240 MHz



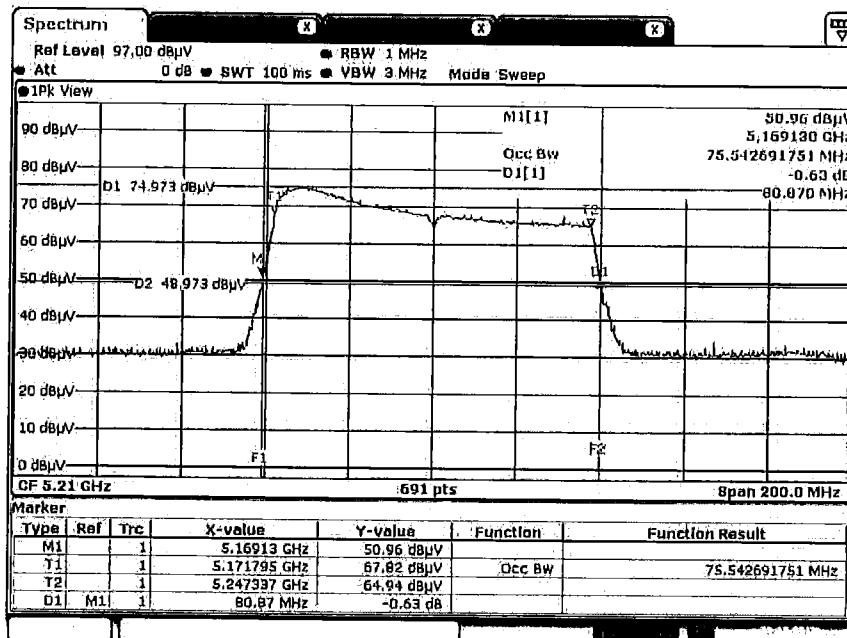


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5200 MHz



Date: 5.OCT.2017 17:04:33

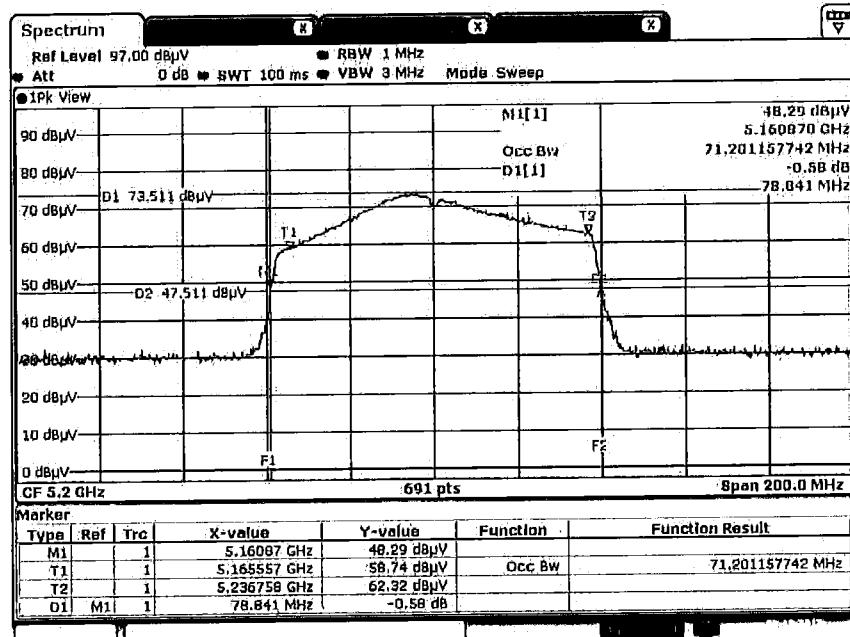
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5210 MHz



Date: 5.OCT.2017 17:05:24

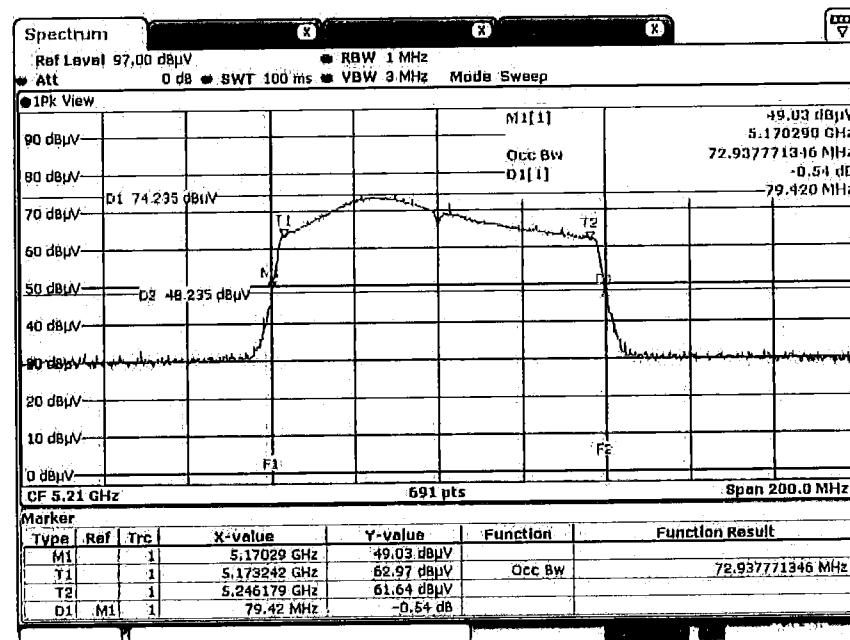


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5200 MHz

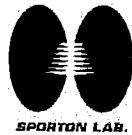


Date: 5.OCT.2017 17:38:20

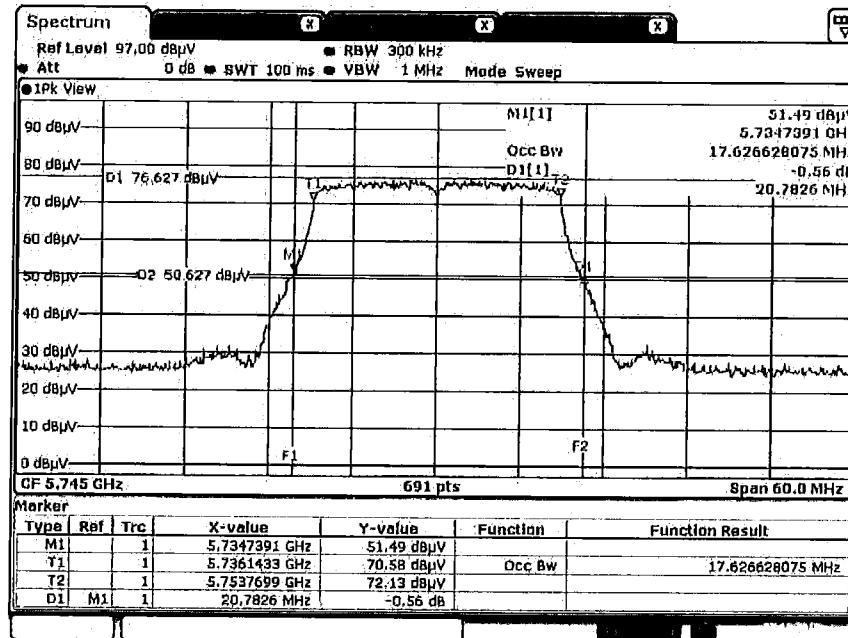
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5210 MHz



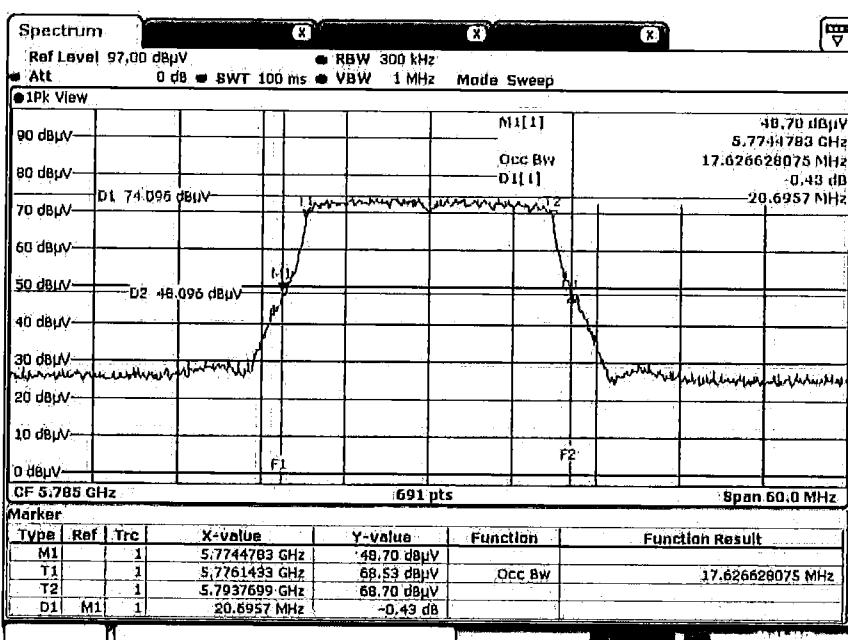
Date: 5.OCT.2017 17:39:08



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5745 MHz

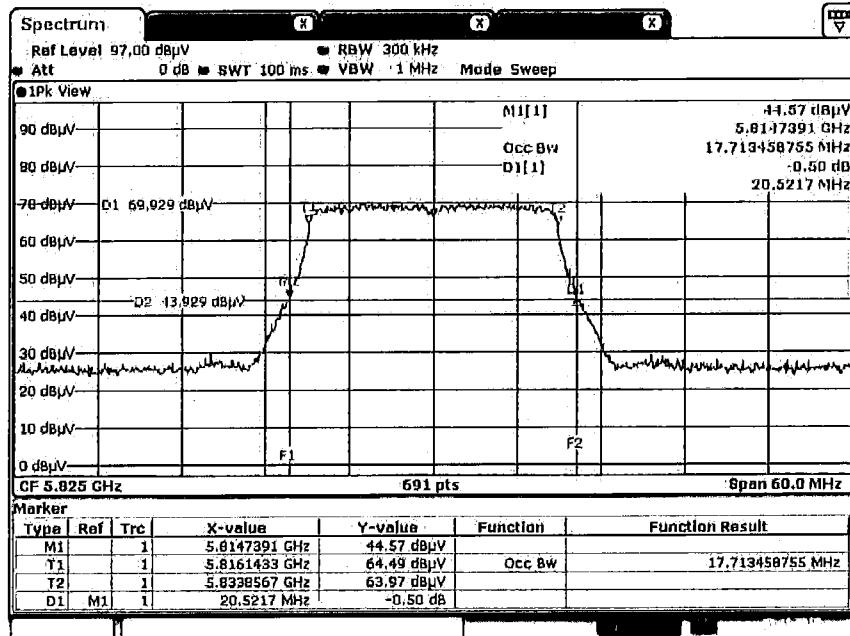


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5785 MHz



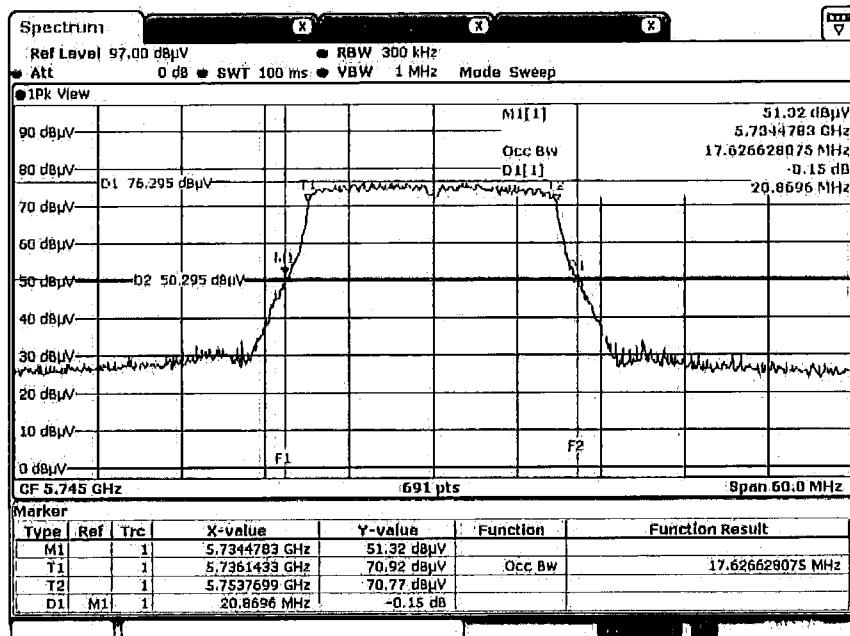


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5825 MHz



Date: 5.OCT.2017 16:29:15

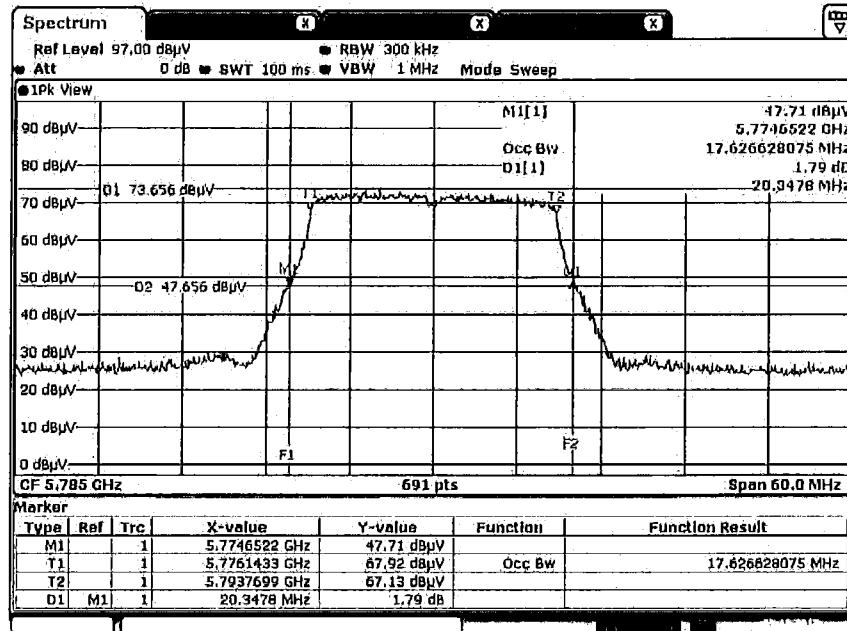
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5745 MHz



Date: 5.OCT.2017 16:31:25

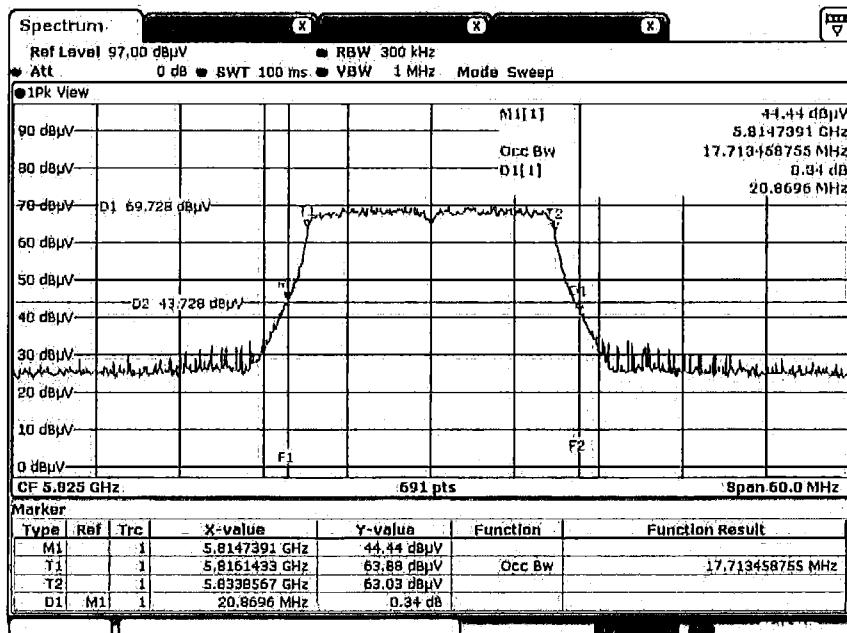


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5785MHz



Date: 5.OCT.2017 16:30:53

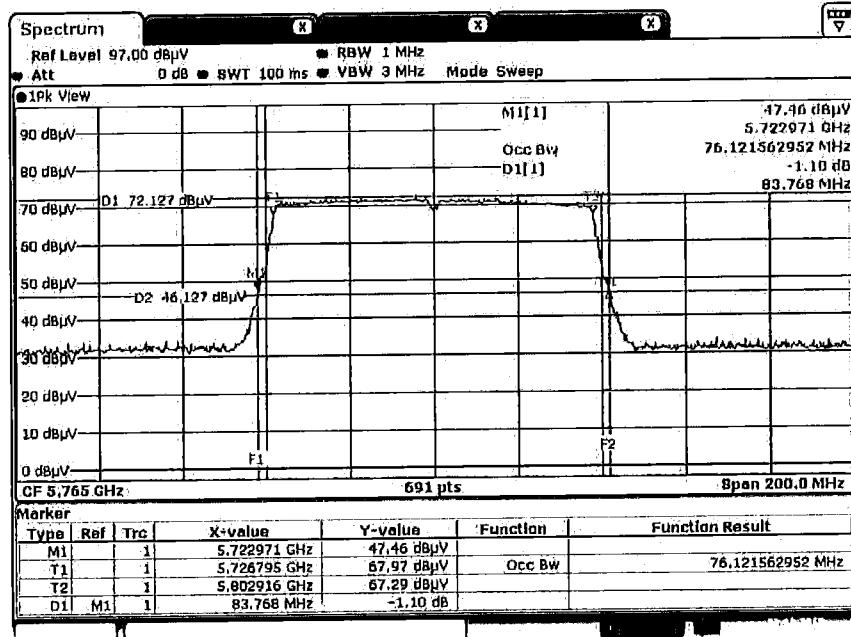
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5825 MHz



Date: 5.OCT.2017 16:30:11

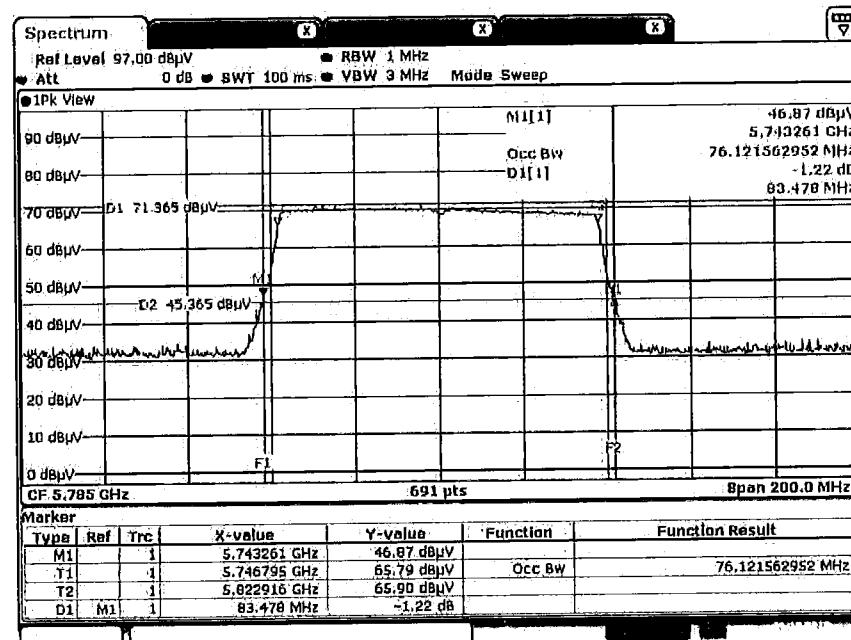


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5765 MHz



Date: 5.OCT.2017 17:15:26

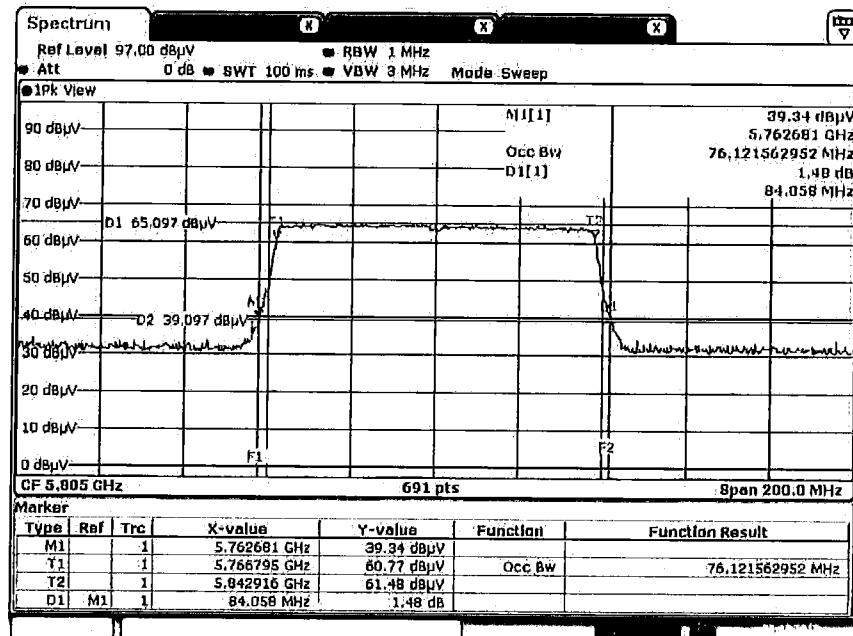
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5785 MHz



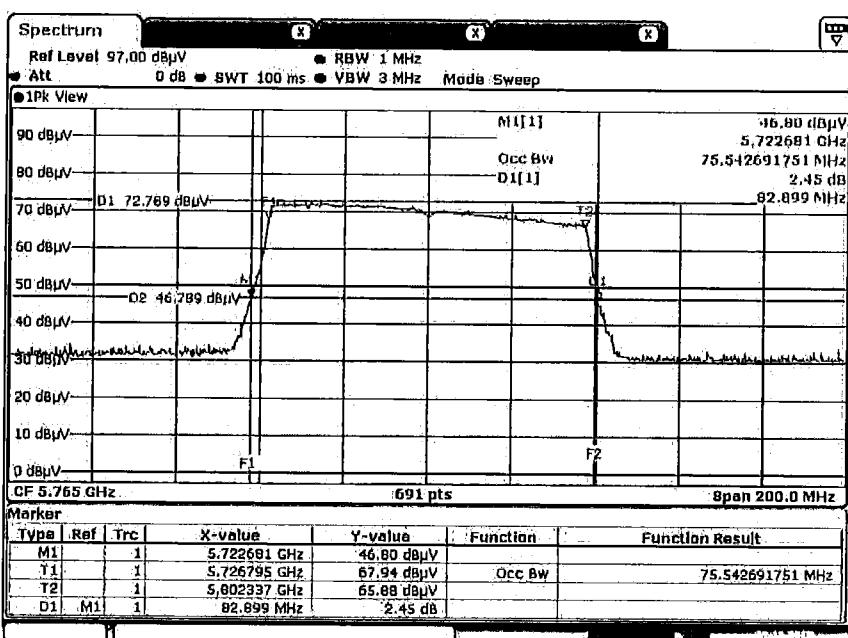
Date: 5.OCT.2017 17:16:09



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5805 MHz

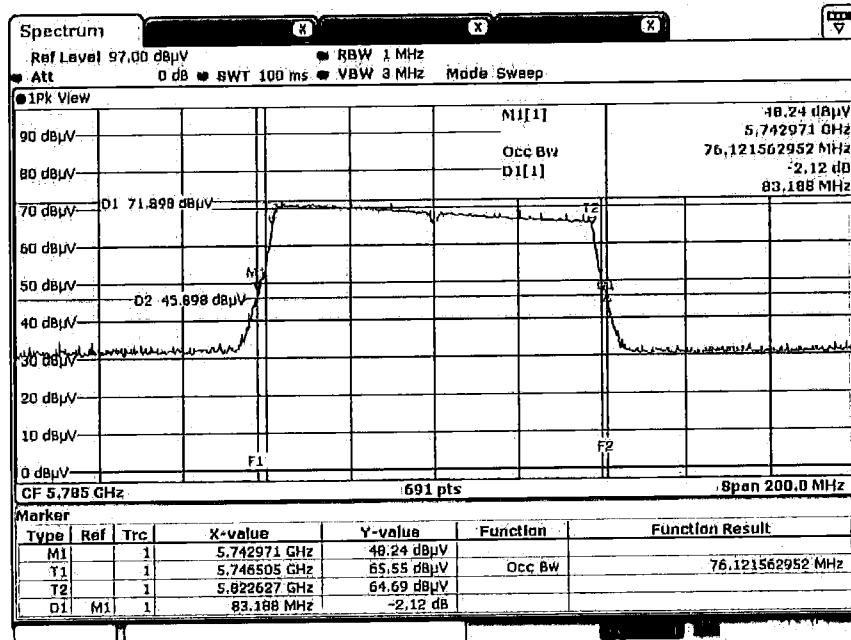


26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5765 MHz

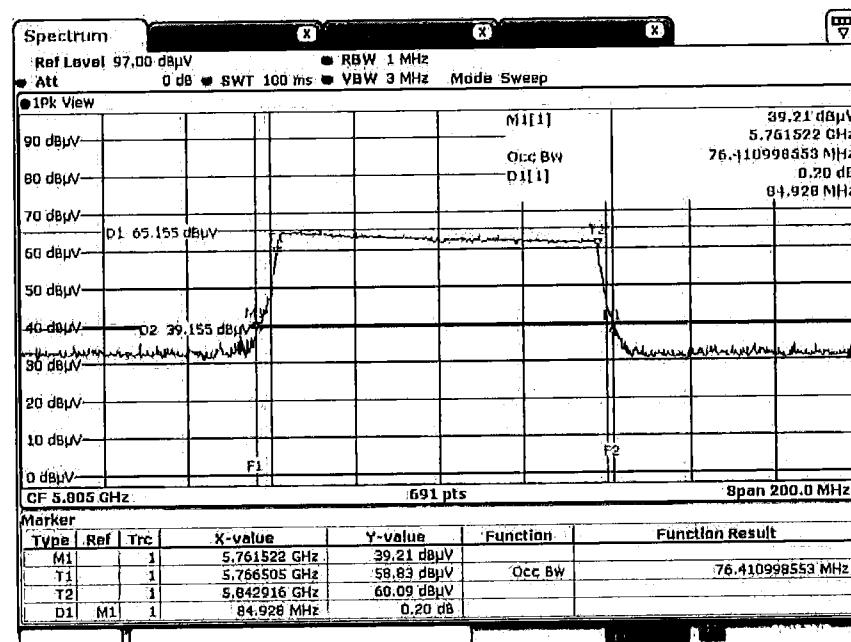




26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5785MHz



26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5805 MHz





4.3. 6dB Spectrum Bandwidth Measurement

4.3.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.3.2. Measuring Instruments and Setting

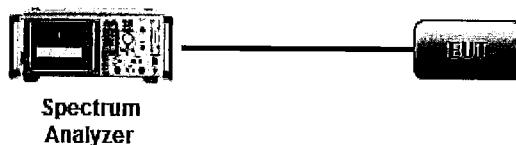
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

| 6dB Spectrum Bandwidth | |
|------------------------|---------------------|
| Spectrum Parameters | Setting |
| Attenuation | Auto |
| Span Frequency | > 6dB Bandwidth |
| RBW | 100kHz |
| VBW | $\geq 3 \times RBW$ |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

4.3.3. Test Procedures

| Test Method |
|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: |
| <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| <input checked="" type="checkbox"/> Refer as IC RSS-Gen, clause 4.6 for bandwidth testing. |

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



4.3.7. Test Result of 6dB Spectrum Bandwidth

| | | | |
|---------------|-----------|----------|-----|
| Temperature | 27.1°C | Humidity | 79% |
| Test Engineer | Ron Huang | | |

For Antenna 1:

| Mode | Frequency | 6dB Bandwidth (MHz) | | Min. Limit (kHz) | Test Result |
|------|-----------|---------------------|--------|------------------|-------------|
| | | Port 1 | Port 2 | | |
| 20M | 5745 MHz | 17.57 | 17.57 | 500 | Complies |
| | 5785 MHz | 17.57 | 17.62 | 500 | Complies |
| | 5825 MHz | 17.57 | 17.62 | 500 | Complies |
| 80M | 5765 MHz | 75.94 | 70.73 | 500 | Complies |
| | 5790 MHz | 76.52 | 75.94 | 500 | Complies |
| | 5805 MHz | 75.65 | 74.49 | 500 | Complies |

For Antenna 2:

| Mode | Frequency | 6dB Bandwidth (MHz) | | Min. Limit (kHz) | Test Result |
|------|-----------|---------------------|--------|------------------|-------------|
| | | Port 1 | Port 2 | | |
| 20M | 5745 MHz | 16.75 | 17.57 | 500 | Complies |
| | 5785 MHz | 17.16 | 17.57 | 500 | Complies |
| | 5825 MHz | 17.57 | 17.57 | 500 | Complies |
| 80M | 5765 MHz | 75.94 | 73.33 | 500 | Complies |
| | 5790 MHz | 74.78 | 75.94 | 500 | Complies |
| | 5805 MHz | 76.52 | 75.94 | 500 | Complies |

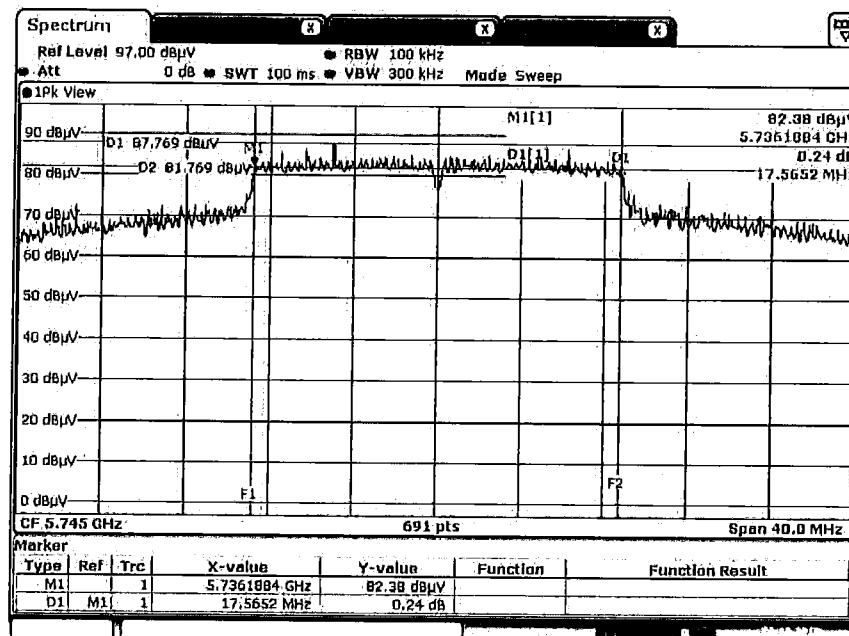
Note: All the test values were listed in the report.

For plots, only the channel with worse result was shown.



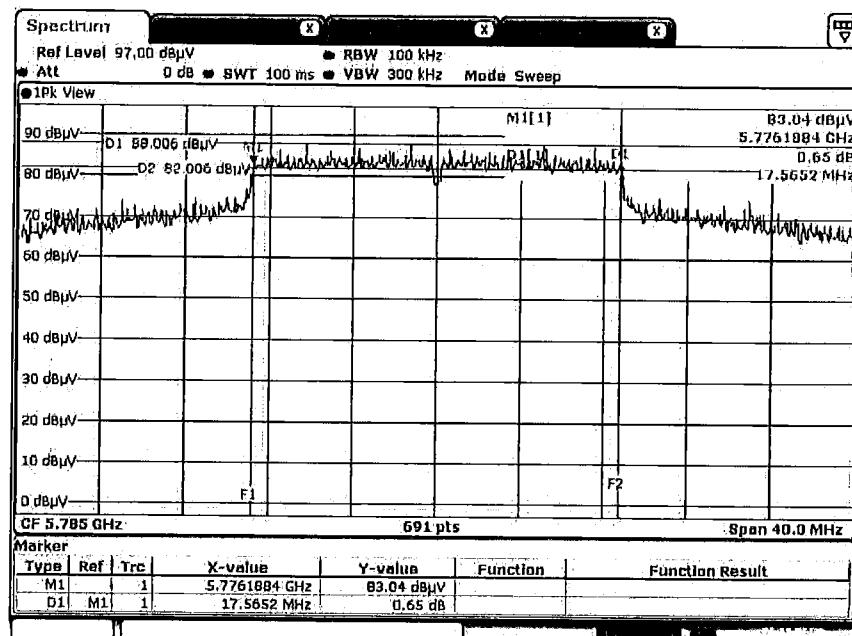
For Antenna 1:

6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5745 MHz



Date: 6.OCT.2017 17:54:27

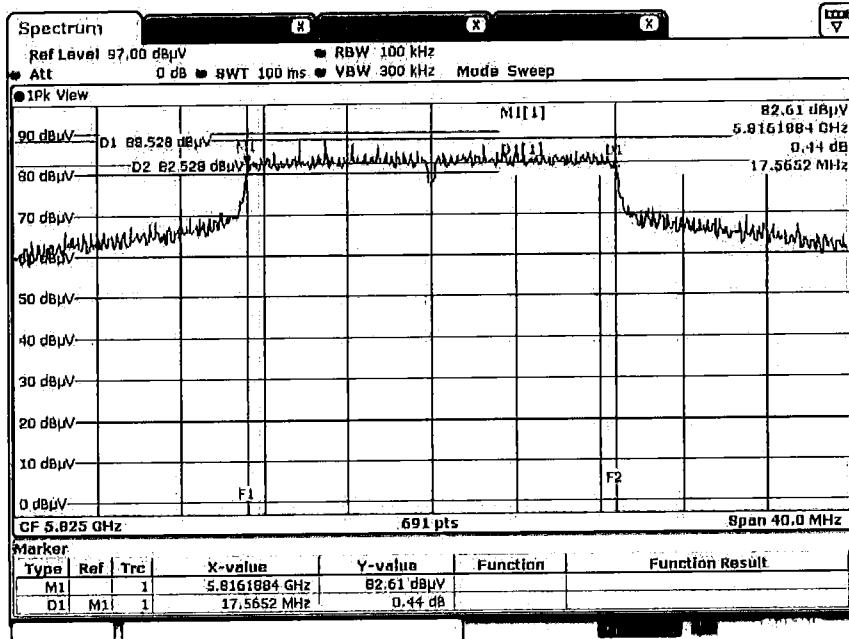
6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5785 MHz



Date: 6.OCT.2017 17:54:02

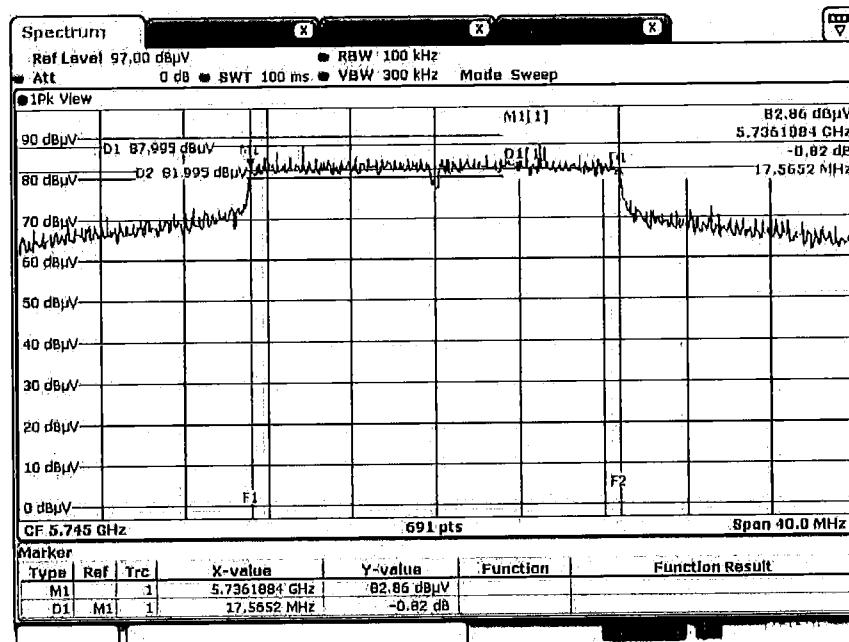


6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5825 MHz



Date: 6.OCT.2017 17:53:19

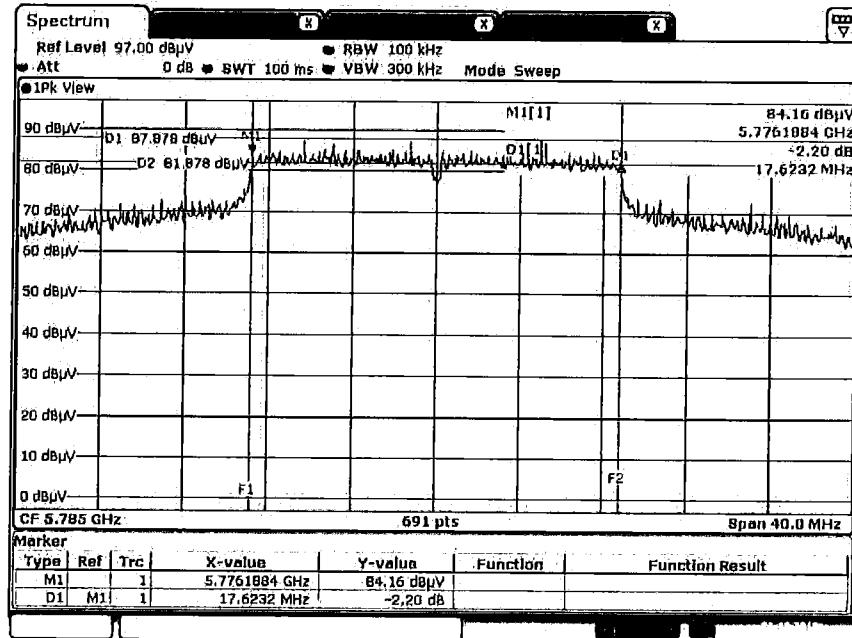
6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5745MHz



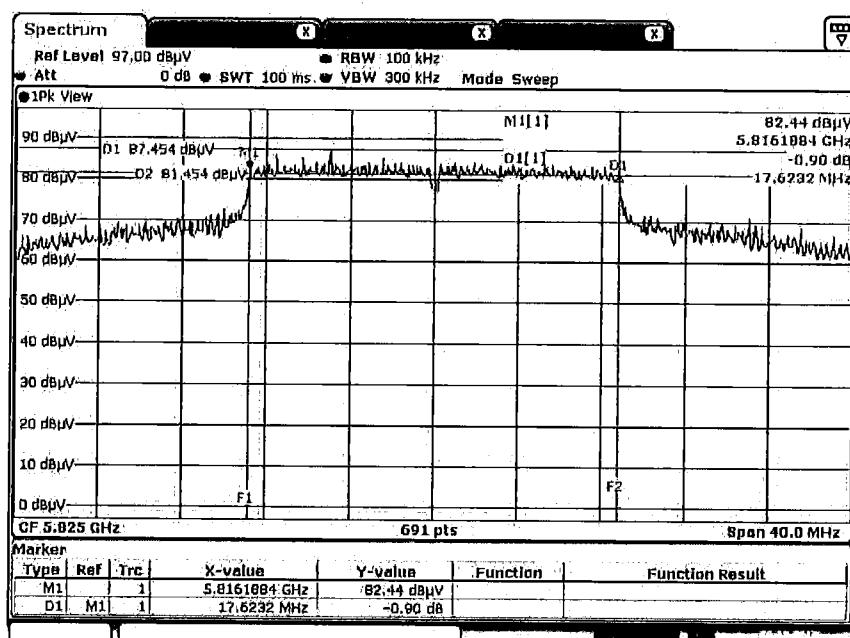
Date: 6.OCT.2017 17:55:35



6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5785MHz

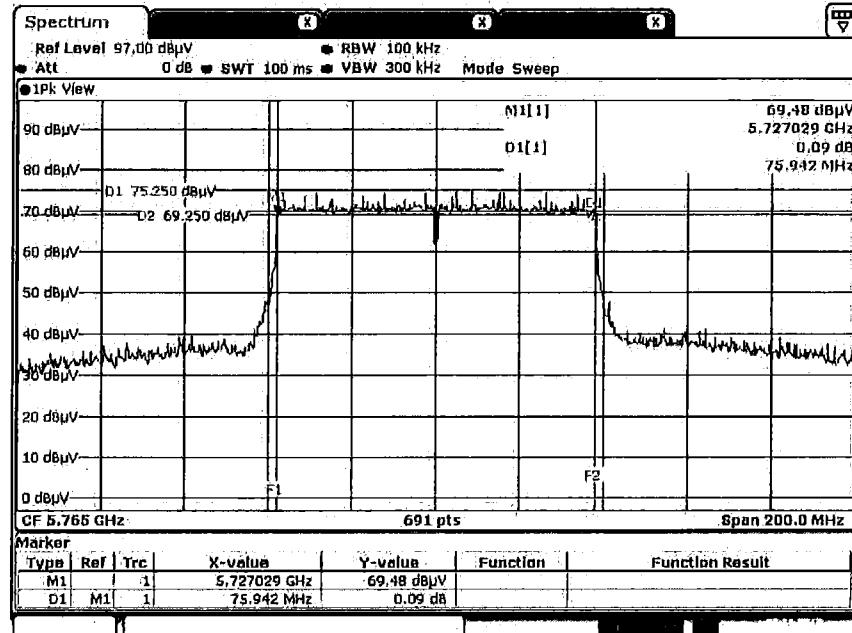


6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5825MHz

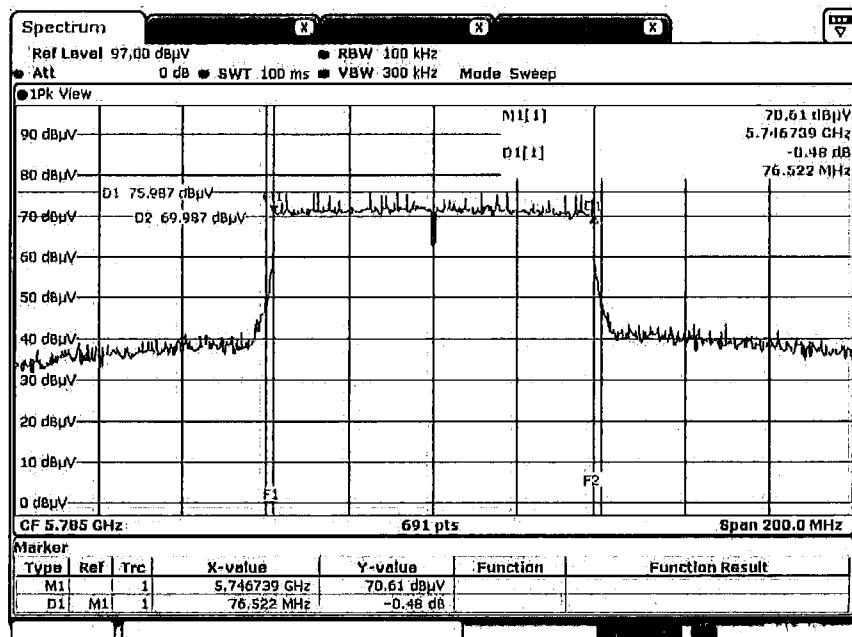




6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5765 MHz

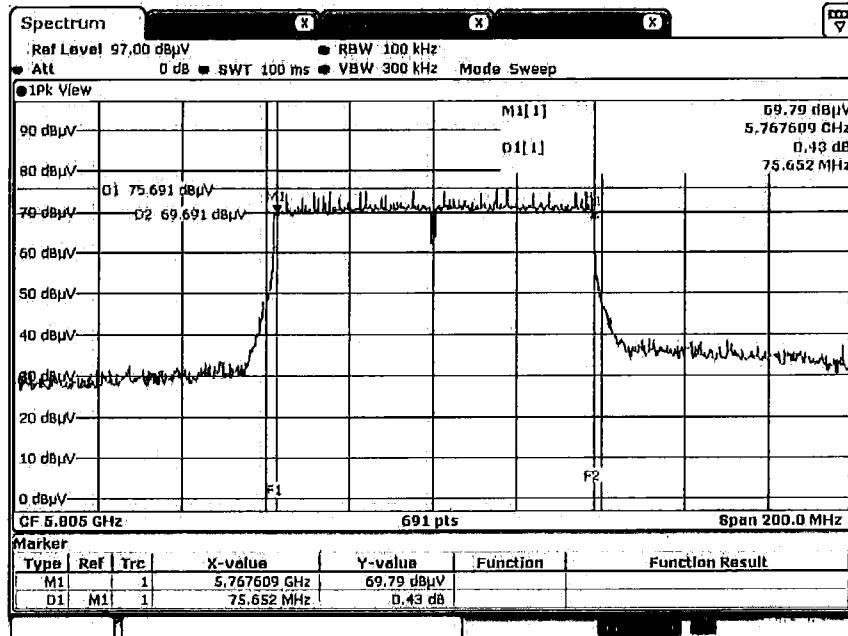


6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5785 MHz



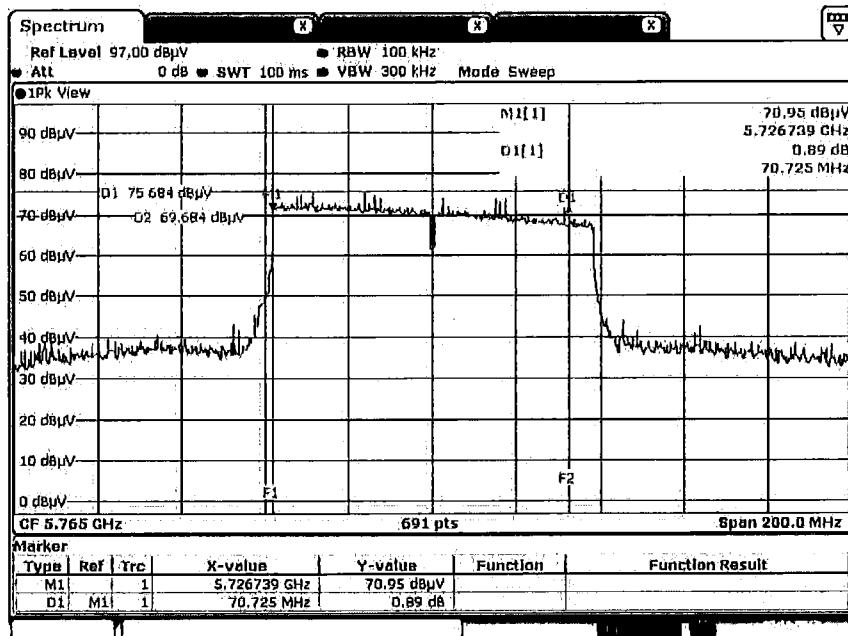


6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5805 MHz

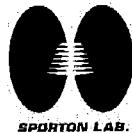


Date: 7.OCT.2017 07:06:58

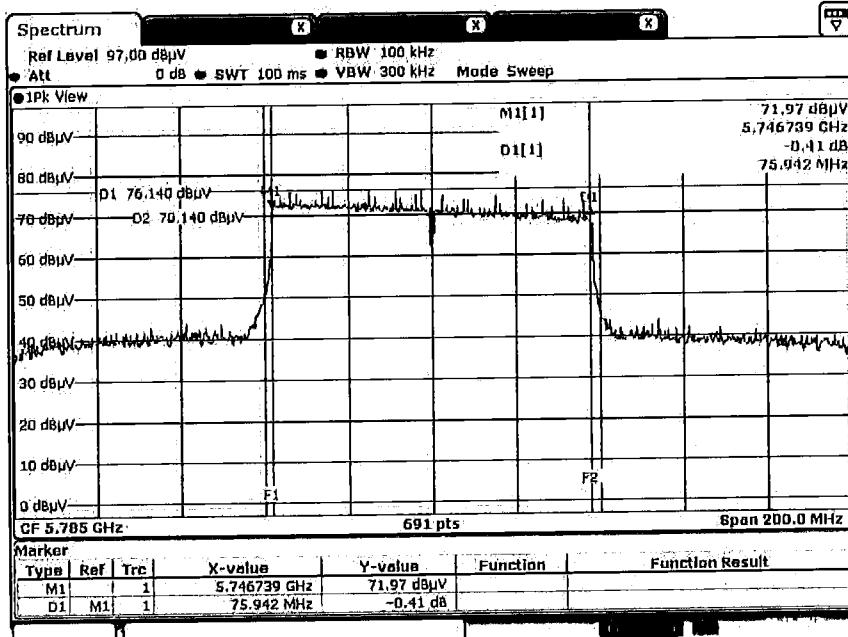
6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5765MHz



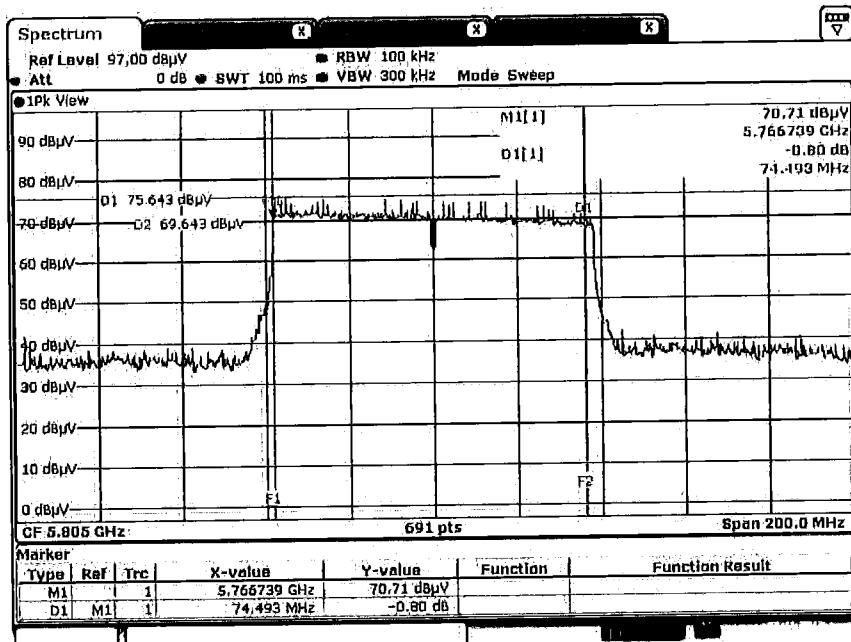
Date: 7.OCT.2017 07:16:15



6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5785MHz



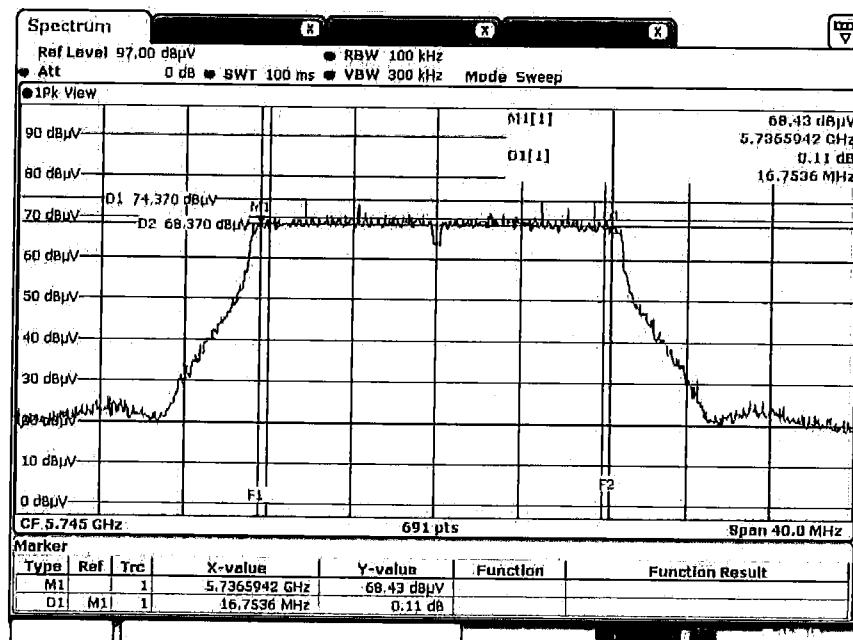
6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5805MHz





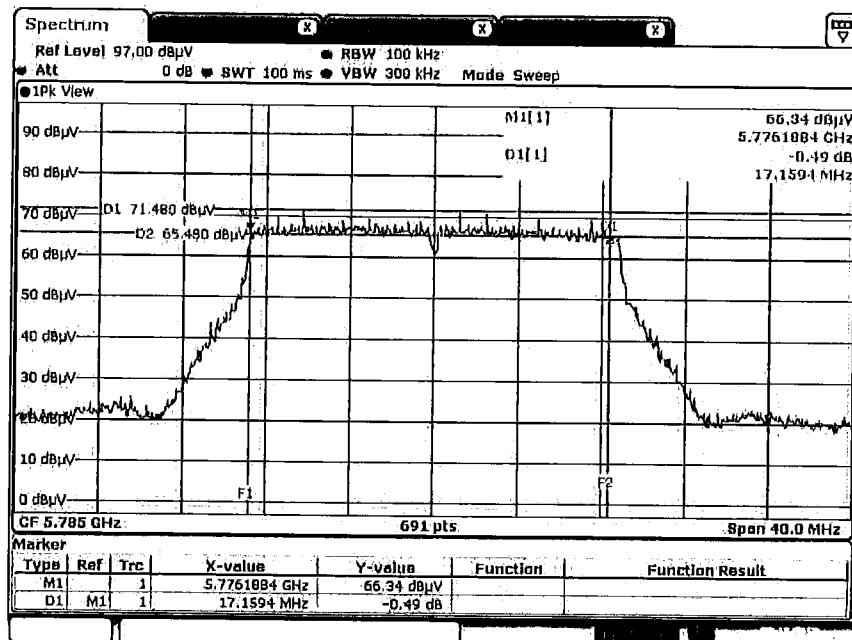
For Antenna 2:

6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5745 MHz



Date: 5.OCT.2017 16:53:33

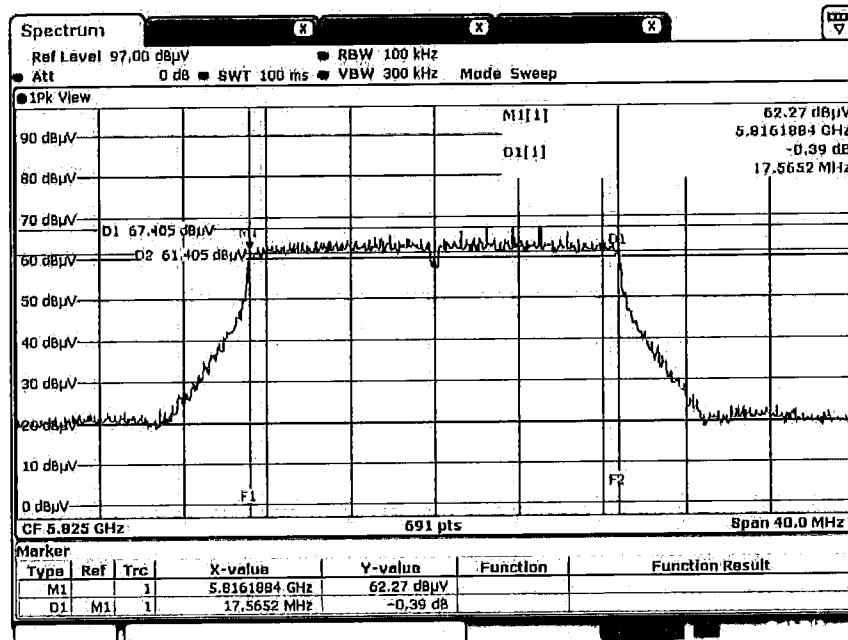
6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5785 MHz



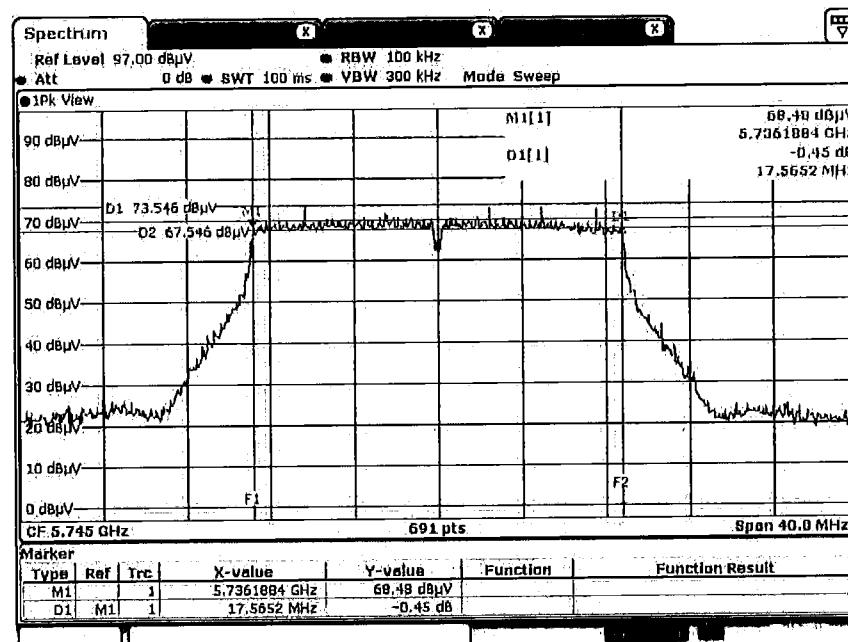
Date: 5.OCT.2017 16:52:55



6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5825 MHz

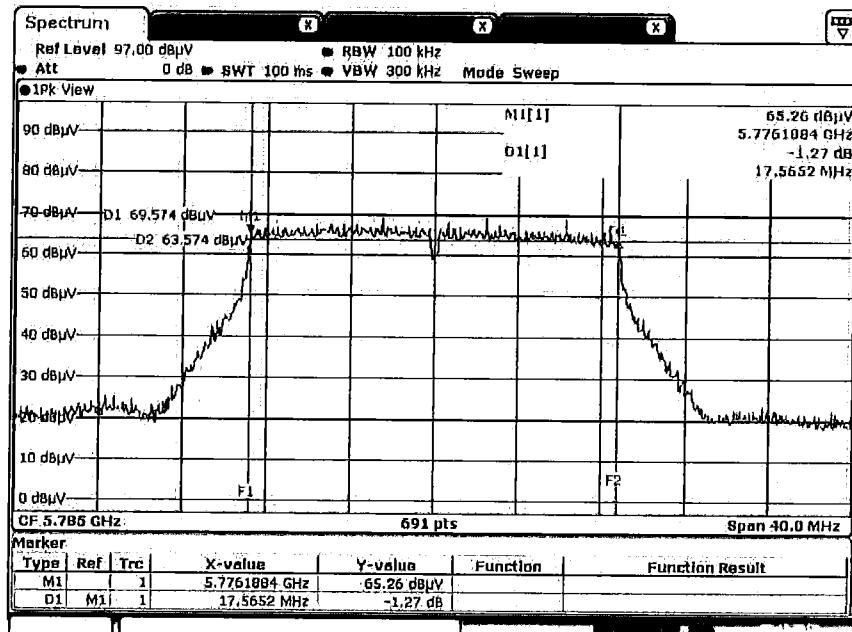


6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5745MHz

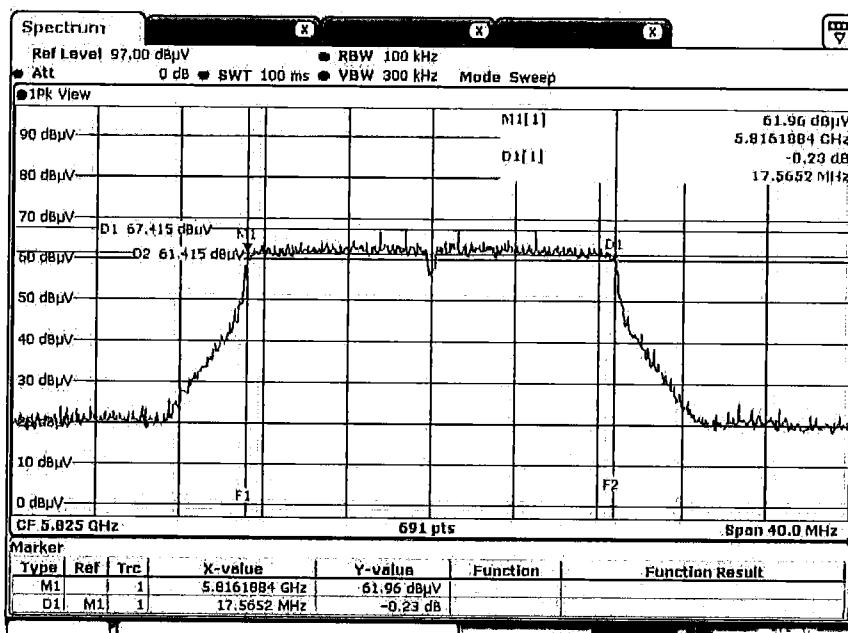




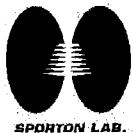
6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5785MHz



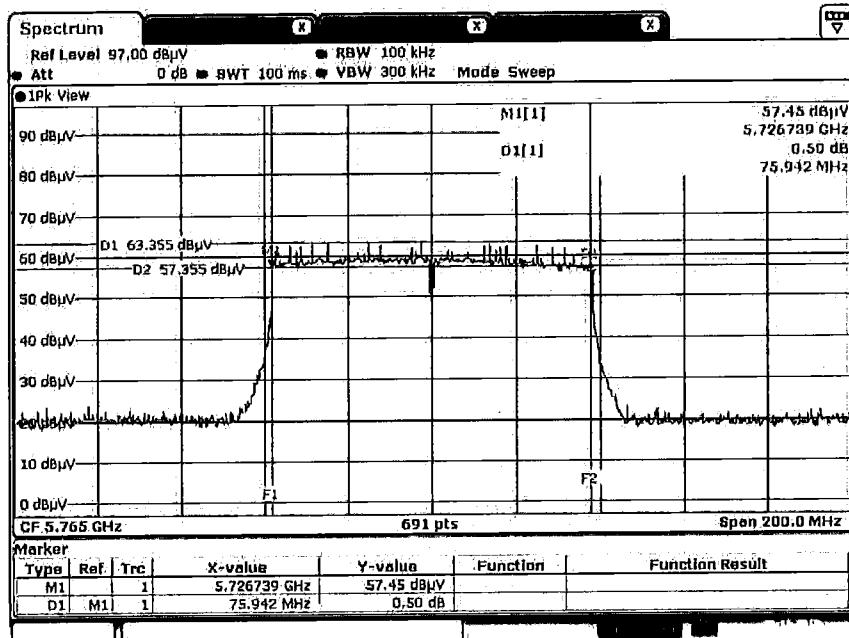
6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5825MHz



Date: 5.OCT.2017 16:38:41

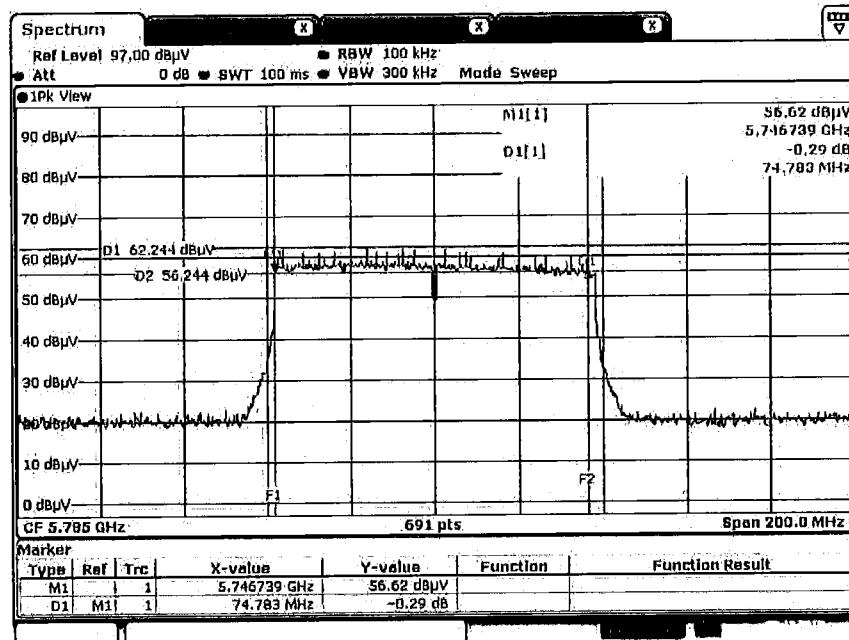


6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5765 MHz



Date: 5.OCT.2017 17:09:22

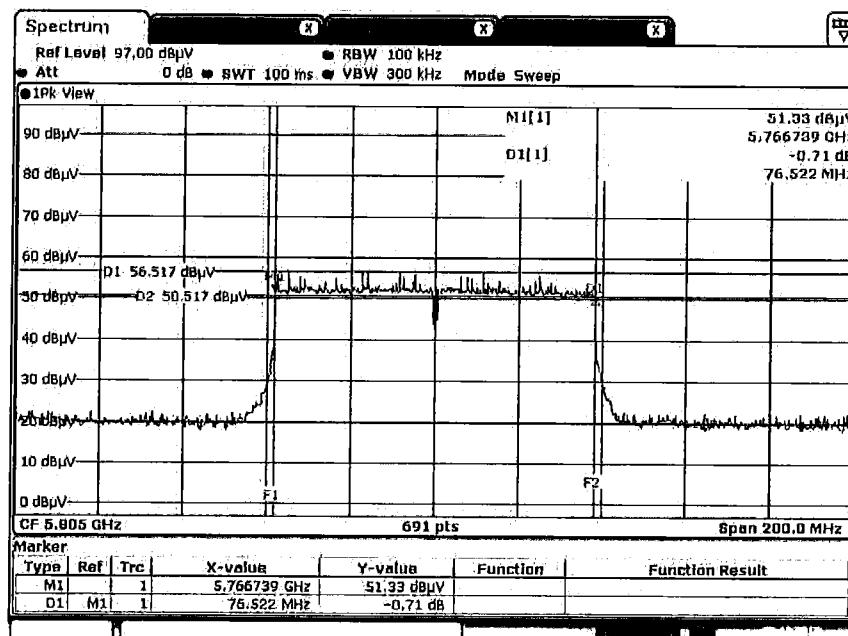
6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5785 MHz



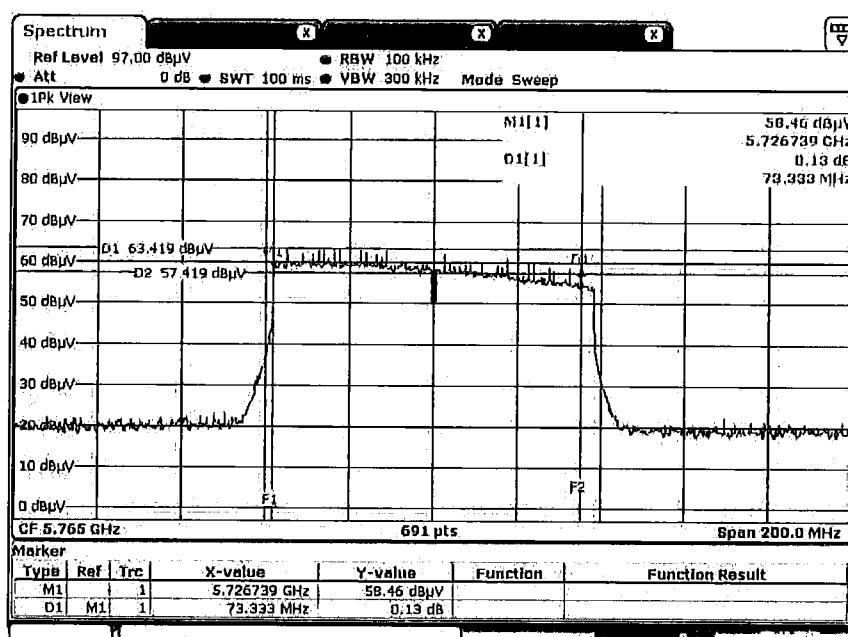
Date: 5.OCT.2017 17:10:34



6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5805 MHz

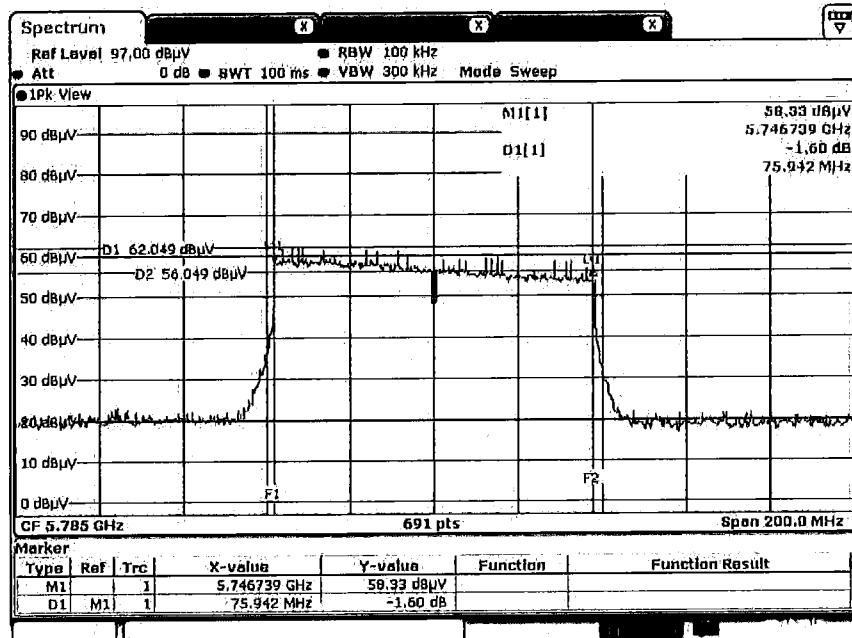


6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5765MHz



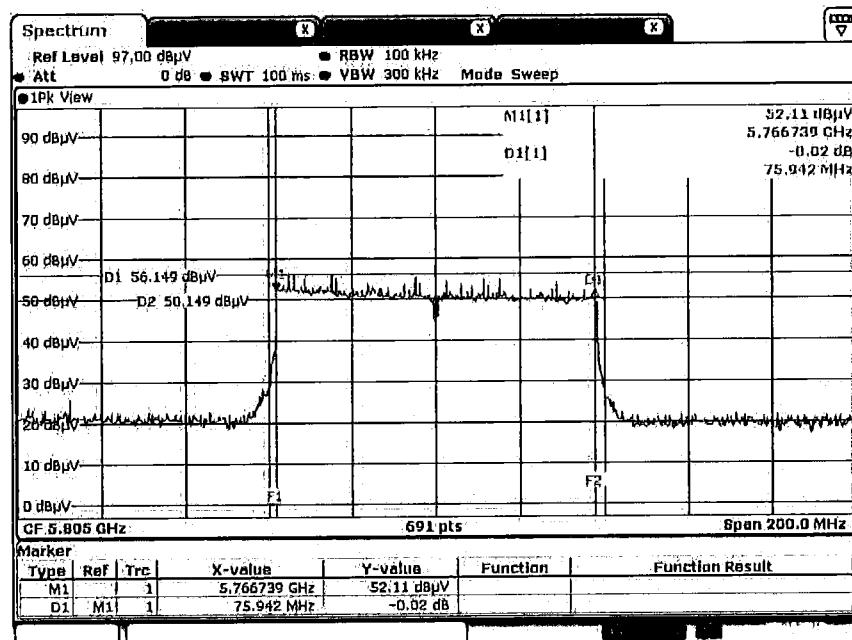


6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5785MHz



Date: 5.OCT.2017 17:37:00

6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5805MHz



Date: 5.OCT.2017 17:37:31



4.4. Maximum Conducted Output Power Measurement

4.4.1. Limit

| Frequency Band | Operating Mode | Limit |
|---|--|---|
| <input checked="" type="checkbox"/> 5.15~5.25 GHz | <input type="checkbox"/> Outdoor access point | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm). |
| | <input type="checkbox"/> Indoor access point | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. |
| | <input checked="" type="checkbox"/> Fixed point-to-point access points | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. |
| | <input type="checkbox"/> Client devices | The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. |