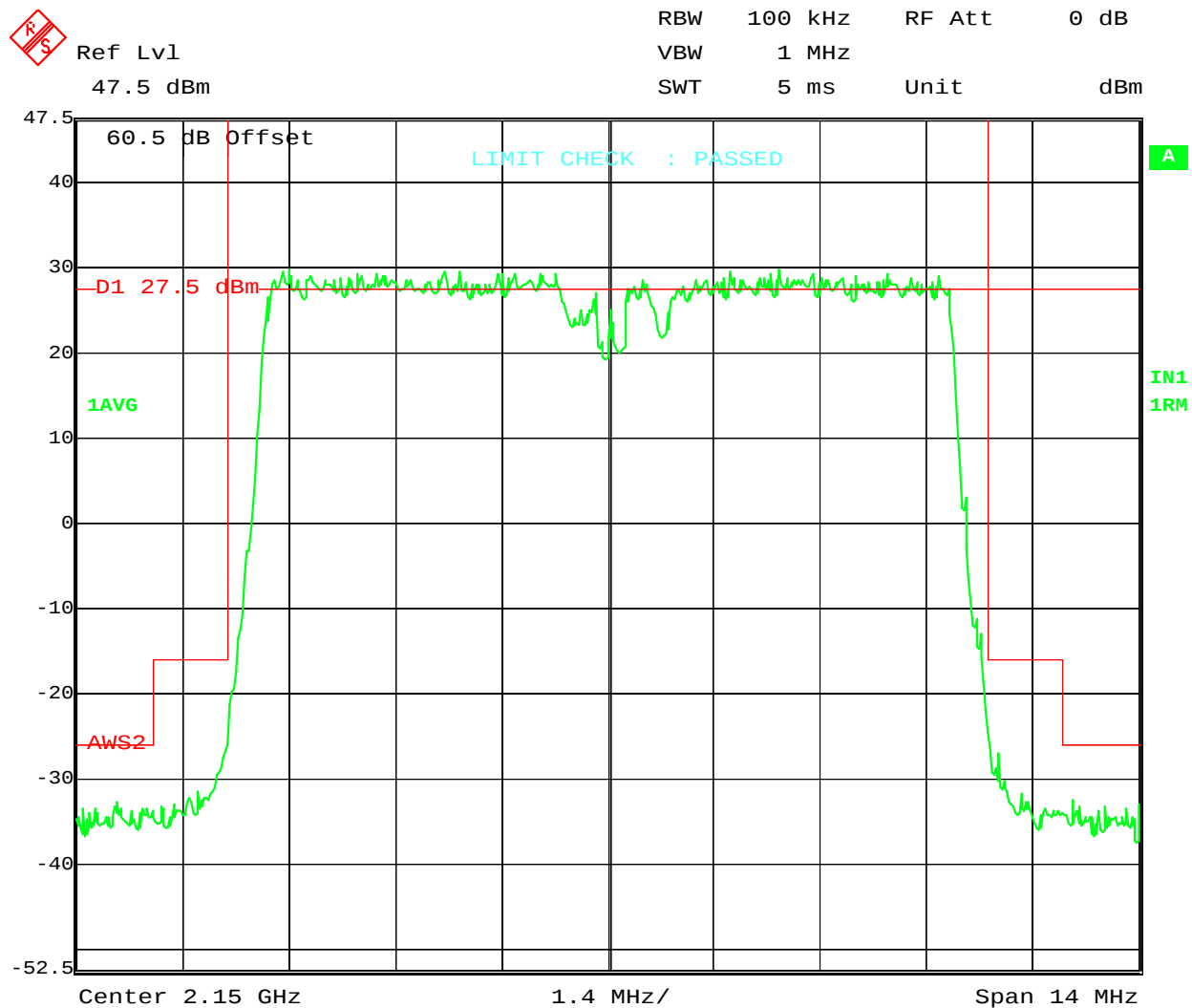
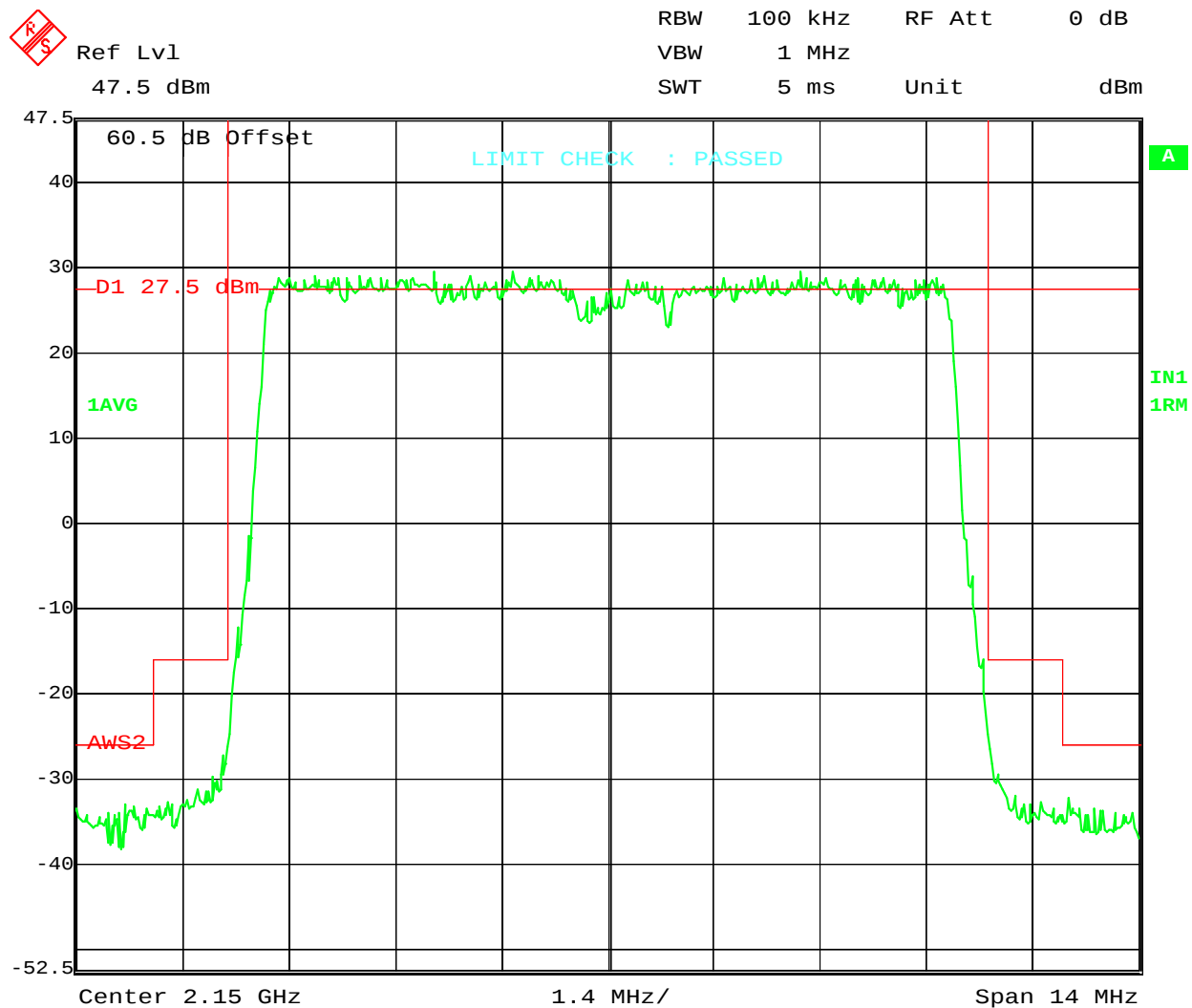




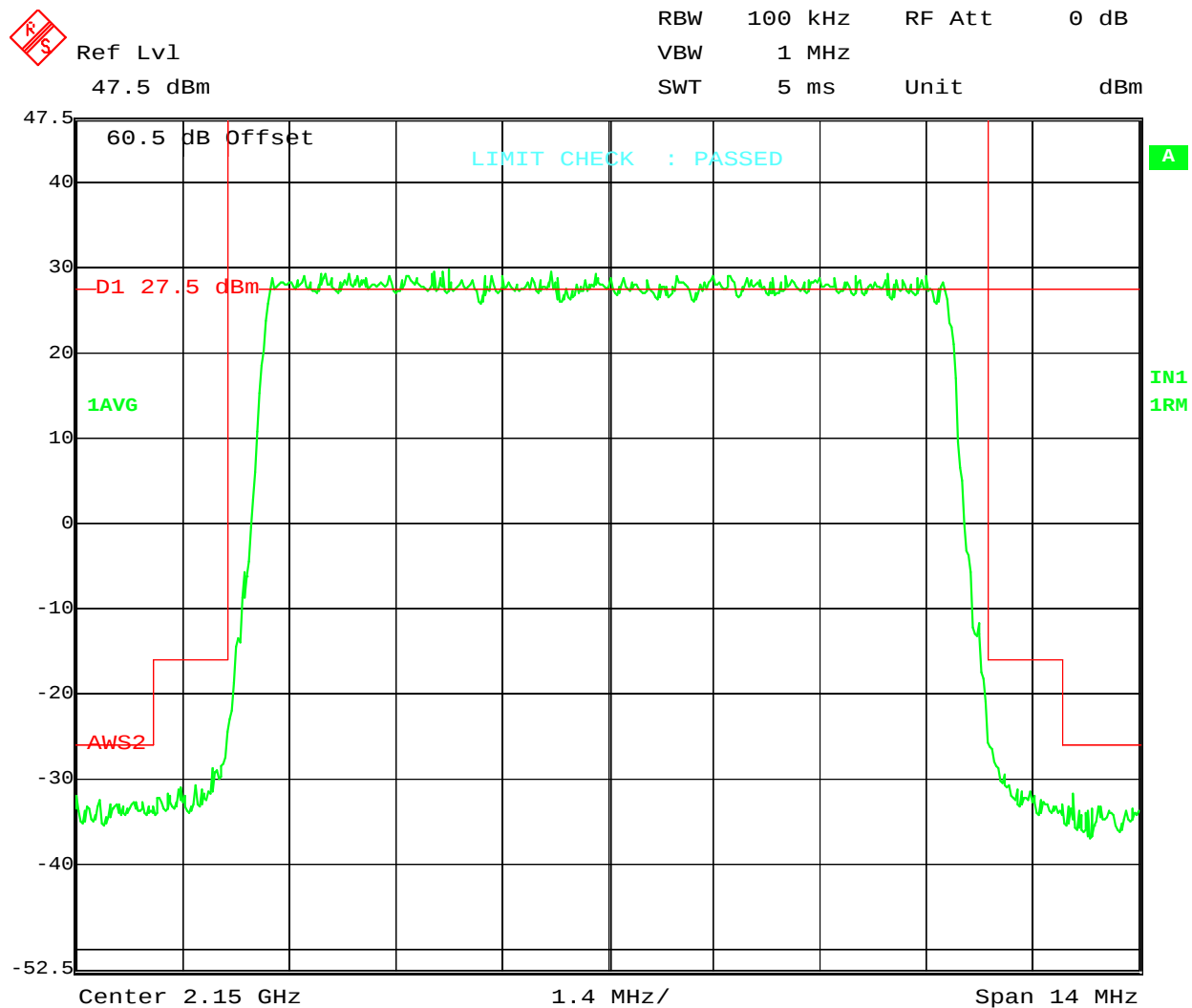
Title: Occupied Bandwidth; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; QPSK
FCC PRT 27; FCCID:AS5BBTRX-13

Date: 22.AUG.2013 03:39:16



Title: Occupied Bandwidth; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 06:41:26



Title: Occupied Bandwidth; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 64QAM

FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 11:39:04

Measurement 4

FCC Section 2.1051 and 27.53 (C) Spurious Emissions at Antenna Transmit Terminals

**MEASUREMENT OF
SPURIOUS EMISSIONS
AT TRANSMIT ANTENNA PORT
FCC 27.53 (h)**

Spurious Emissions at Transmit Antenna Terminals

Spurious Emissions at the transmit-antenna terminals were investigated over the frequency range of 9 kHz to the 22 GHz. The test setup is as described in Figure A. Measurements were made using a Rohde & Schwarz ESI 40 (9 kHz to 40 GHz) EMI Test receiver. The RF output from the transmitter was reduced (to an amplitude usable by the receivers) using calibrated attenuators. The RF power level was continuously monitored via RF Power Meter as shown in the test setup in Figure A. The required emission limitation is specified in 27.53 (h) and FCC Part 24 Subpart E section 24.238. Measurements were made at 60W per carrier and 120W per port at antenna terminals. The measured spurious emission levels were plotted for the frequency range 9 kHz to 22 GHz. The measurements were made using following receiver parameters:

FCC Section 27.53(h)(1) Based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. Pursuant to FCC OET RULES 662911 D01 and D02 for two antenna MIMO mode of operations, the FCC limit of -13dBm shall be 3dB more stringent, therefore all channel edge and out of band spurious emissions shall be -16dBm.

The list of blocks and bands, tested are listed below:

Table 1

Table for (10MHz +10 MHz), (10 MHz +5 MHz) 120W Non-Contiguous BWs

Left Frequency Range (MHz) & Block	Left Frequency BW (MHz)	Left Center Frequency (MHz)	Left Frequency Power (Watts)	Right Frequency Range (MHz) & Block	Right Frequency BW (MHz)	Right Center Frequency (MHz)	Right Frequency Power (MHz)	Total BW (MHz)	Total Power (Watts)
2110-2120 (A)	10	2115	60	2145-2155 (F)	10	2150	60	20	120
2120-2130 (B)	10	2125	60	2135-2140 2140-2145 (D+E)	5+5	2140	60	20	120
2130-2135 2135-2140 (C+D)	5+5	2135	60	2145-2155 (F)	10	2150	60	20	120
2120-2130	10	2125	60	2145-2155	10	2150	60	20	120
2110-2120 (A)	10	2115	60	2135-2140 (D)	5	2137.5	60	15	120
2120-2130 (B)	10	2125	60	2140-2145 (E)	5	2142.5	60	15	120
2135-2140 (D)	5	2137.5	60	2145-2155 (F)	10	2150	60	15	120
2130-2135 (C)	5	2132.5	60	2145-2155 (F)	10	2150	60	15	120

Table 2**Table for 10MHz, 15 MHz and 20 MHz for 60W all Contiguous Bands**

Frequency Range (MHz) & Block	Bandwidth (MHz)	Center Frequency (MHz)	Power (Watts)
2110-2130 (A+B)	20	2120	60
2125-2145 (B2+C+D+E)	20	2135	60
2135-2155 (D+E+F)	20	2145	60
2110-2025 (A+B1)	15	2117.5	60
2120-2035 (B+C)	15	2127.5	60
2130-2145 (C+D+E)	15	2137.5	60
2140-2155 (E+F)	15	2147.5	60
2110-2120 (A)	10	2115	60
2120-2130 (B)	10	2125	60
2130-2140 (C+D)	10	2135	60
2135-2145 (D+E)	10	2140	60
2145-2155 (F)	10	2150	60

The tests were performed in following modulation configurations:

- A. QPSK
- B. 16 QAM
- C. 64 QAM

RESULTS:

The magnitude of spurious emissions is within the specification limits of FCC Part 27.53(h).

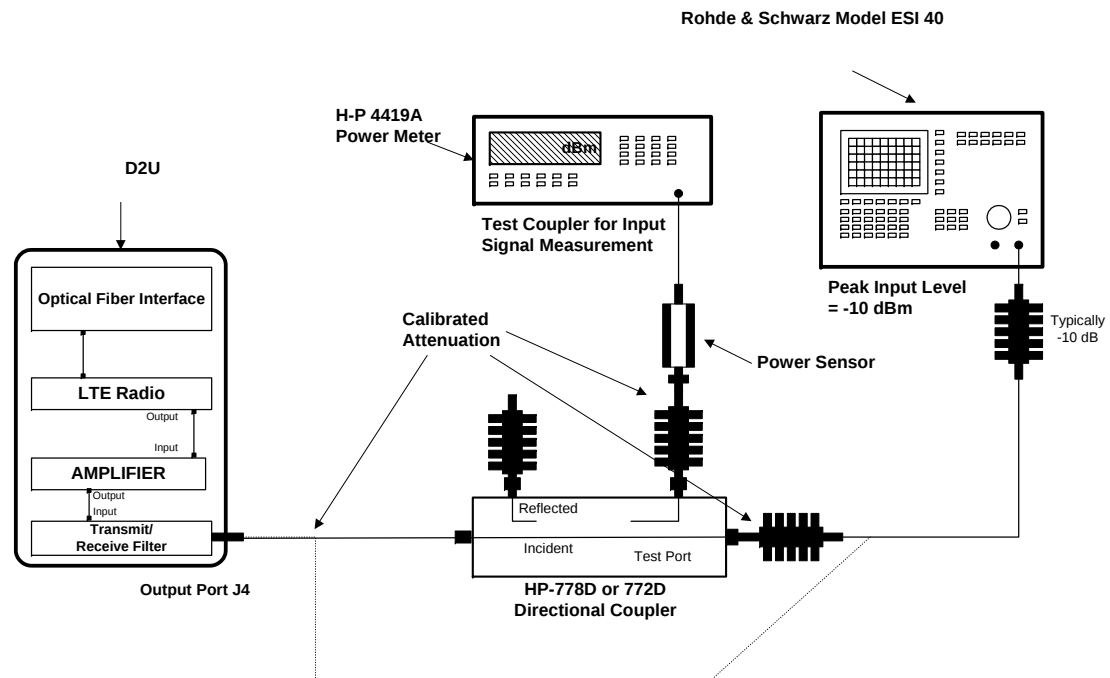
Measurement uncertainty:

9 kHz to 20 MHz: Frequency = 10 Hz, Amplitude = 0.5 dB

20 MHz to 1 GHz: Frequency = 100Hz, Amplitude = 0.5 dB

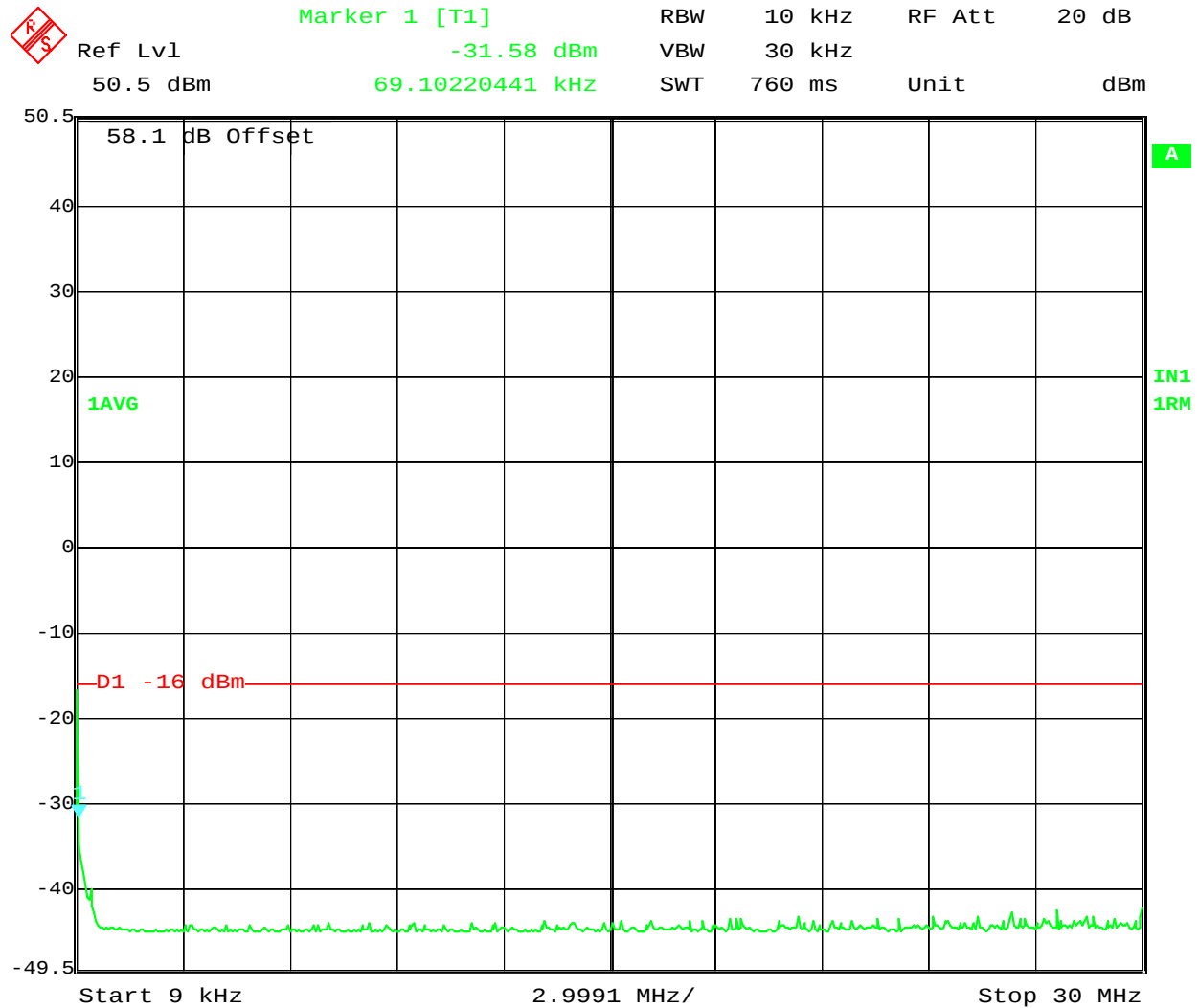
1 GHz to 10 GHz: Frequency = 10 kHz, Amplitude = 0.5 dB

Figure A. TEST CONFIGURATION FOR CONDUCTED SPURIOUS

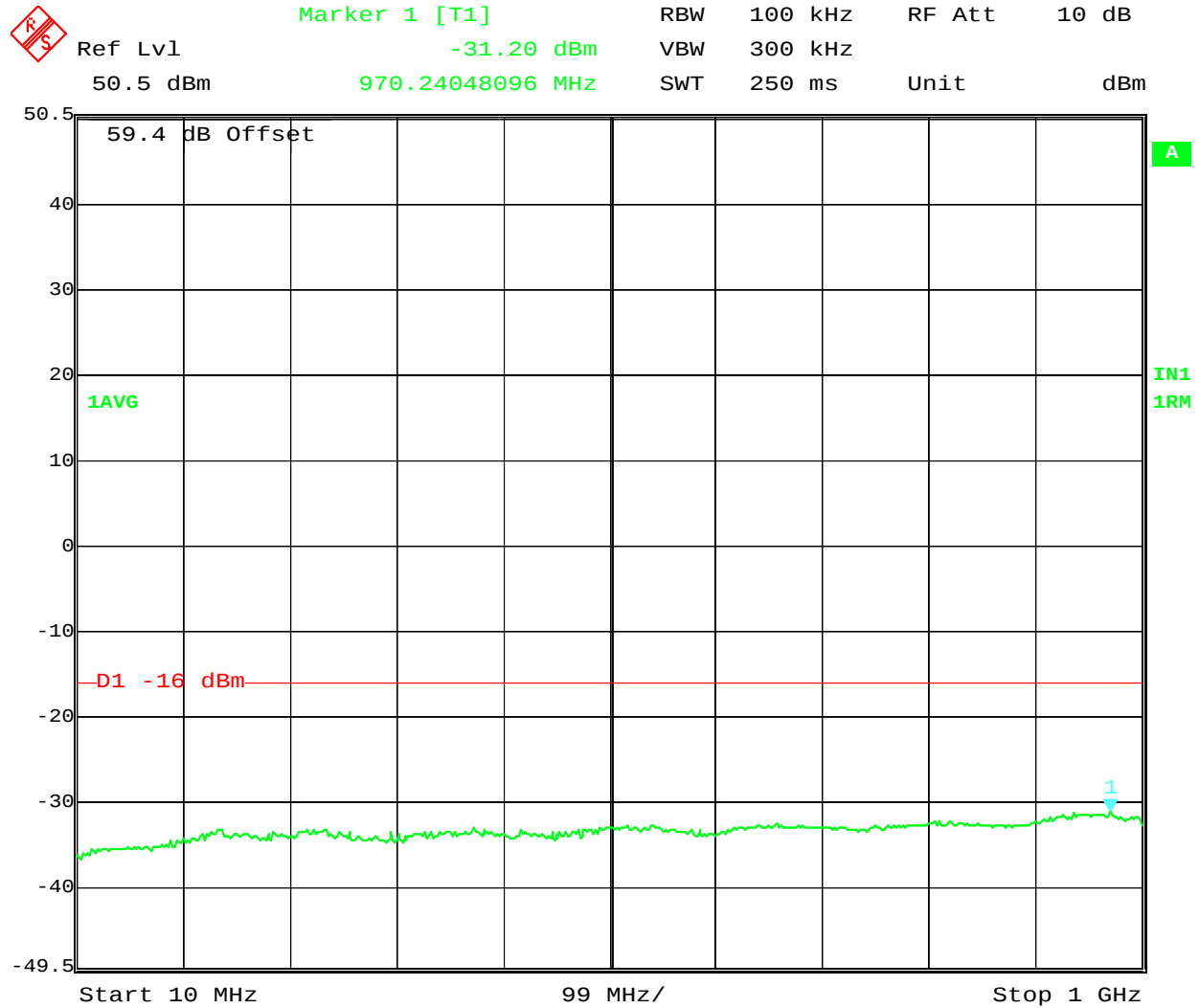


**Transmit Port
Antenna Conducted Spurious Emissions**

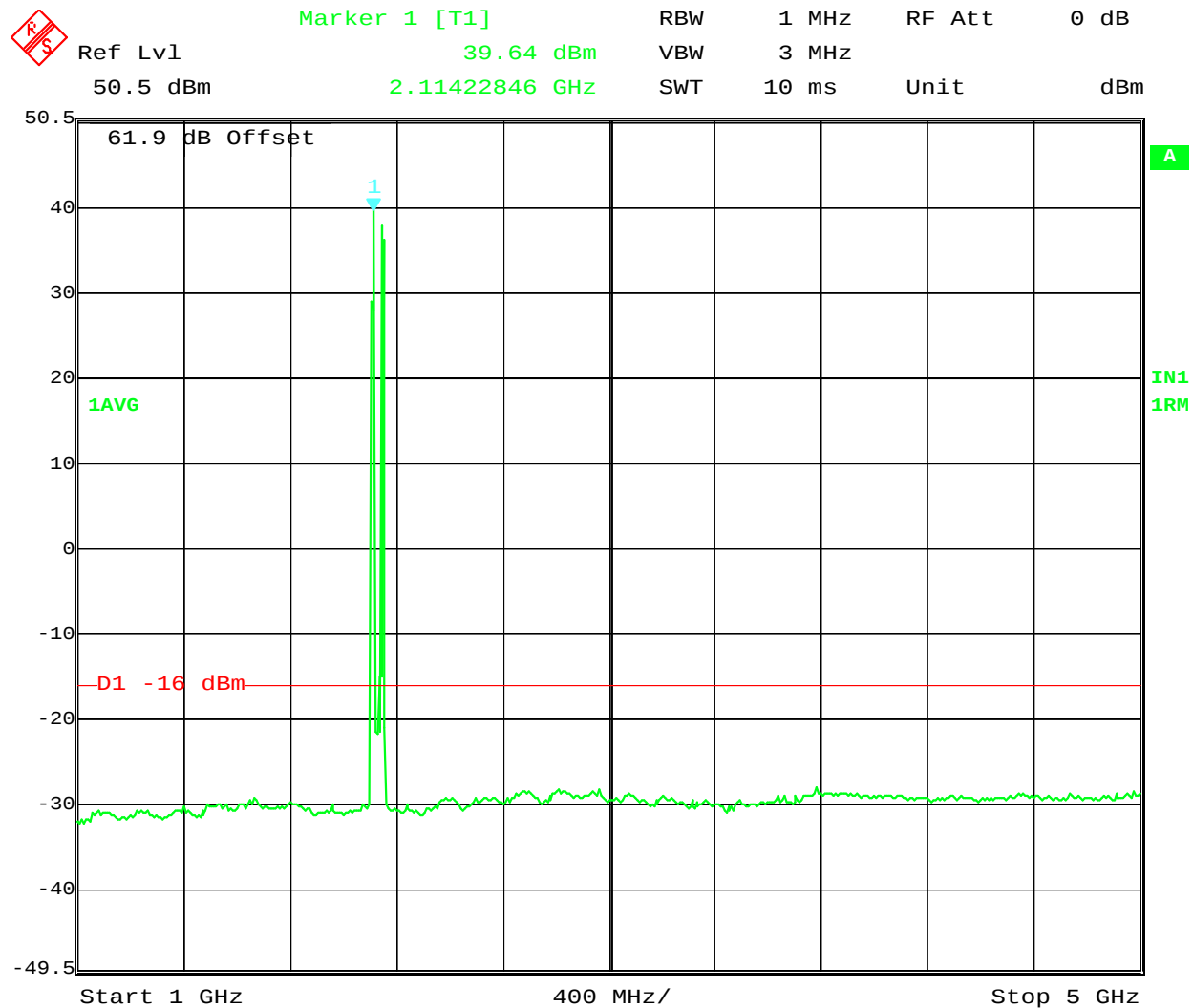
**Block: A+F
10+10 MHz Bandwidth (2110-2120 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
QPSK Modulation**



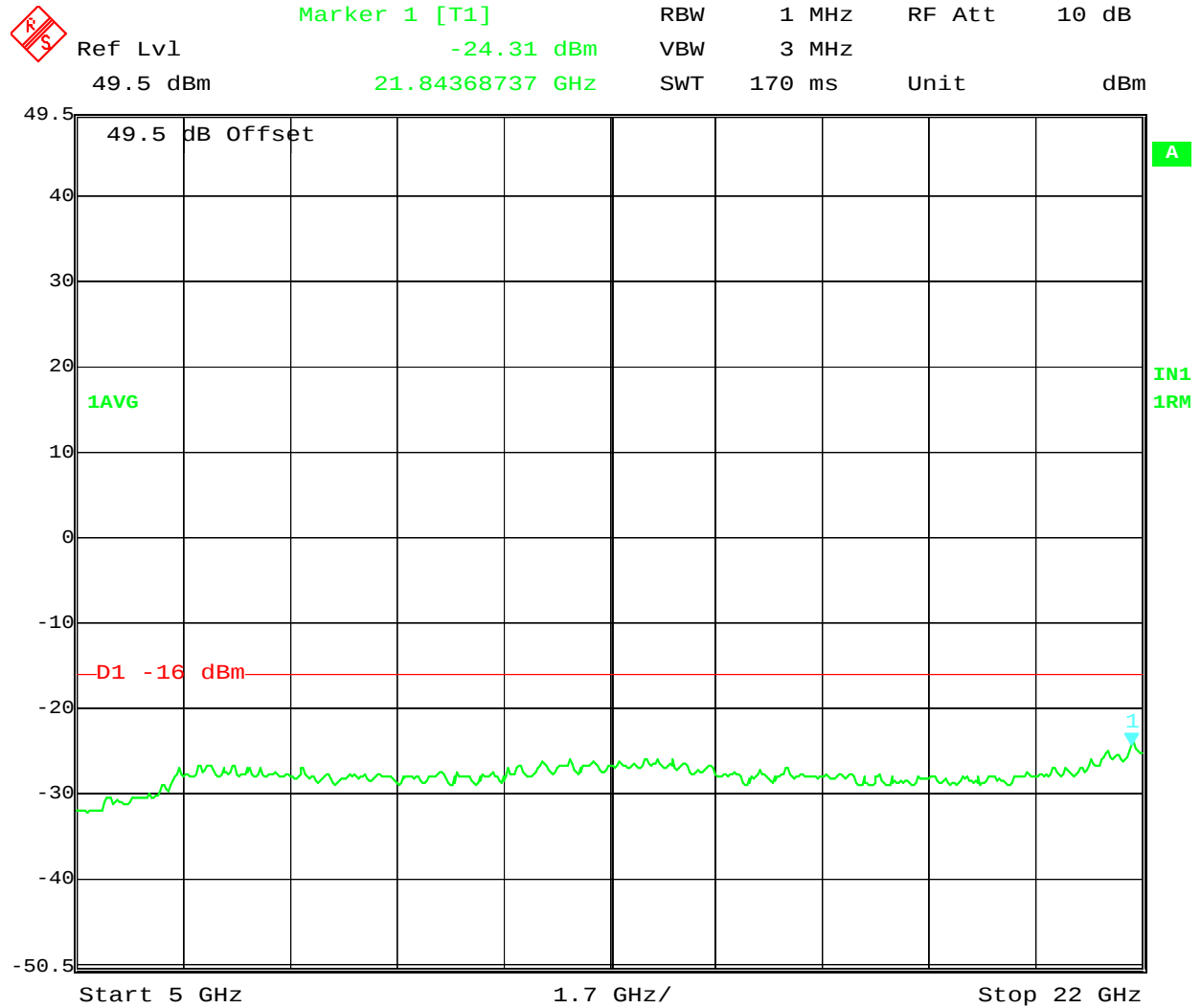
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:47:36



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:48:31



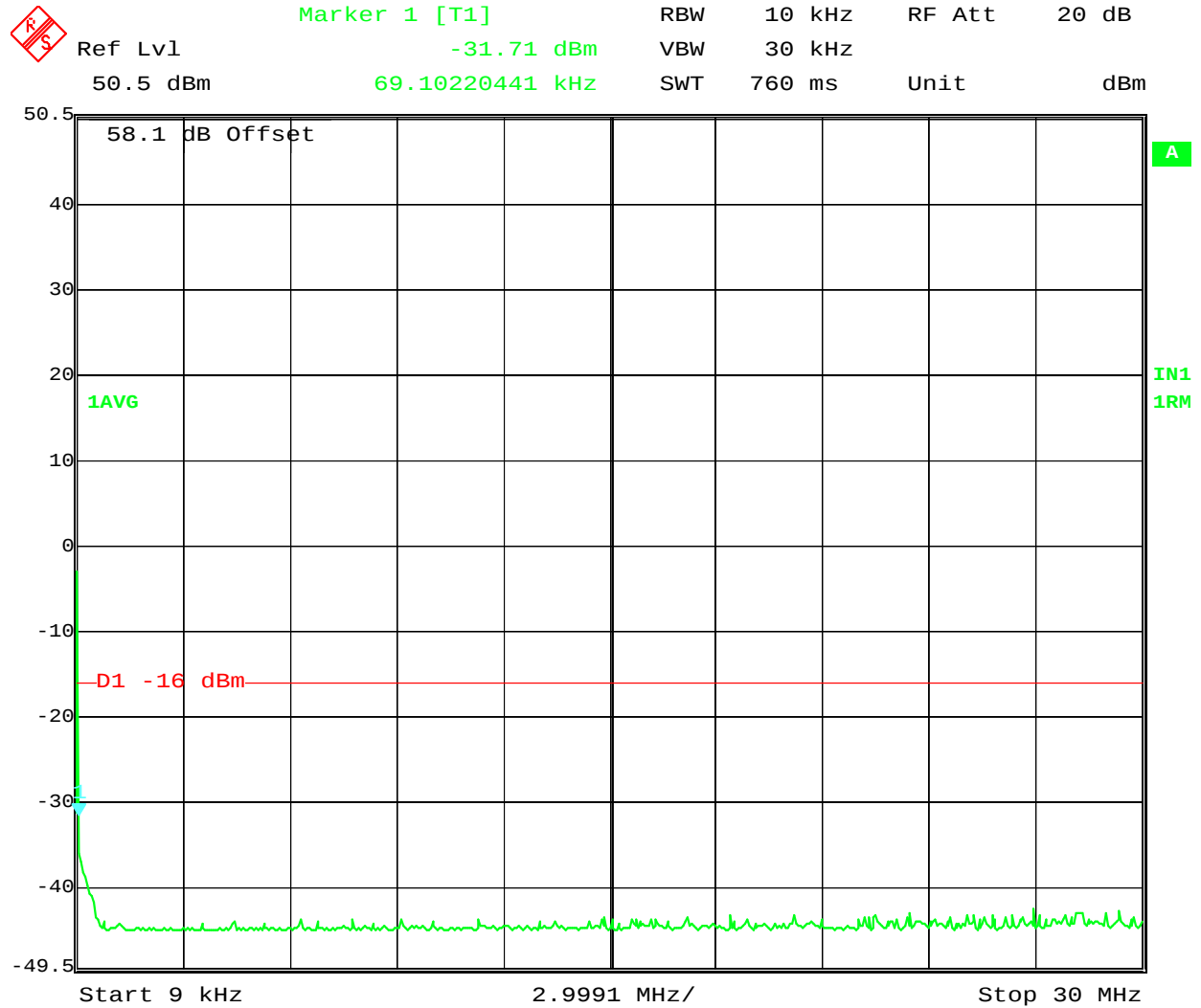
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:49:13



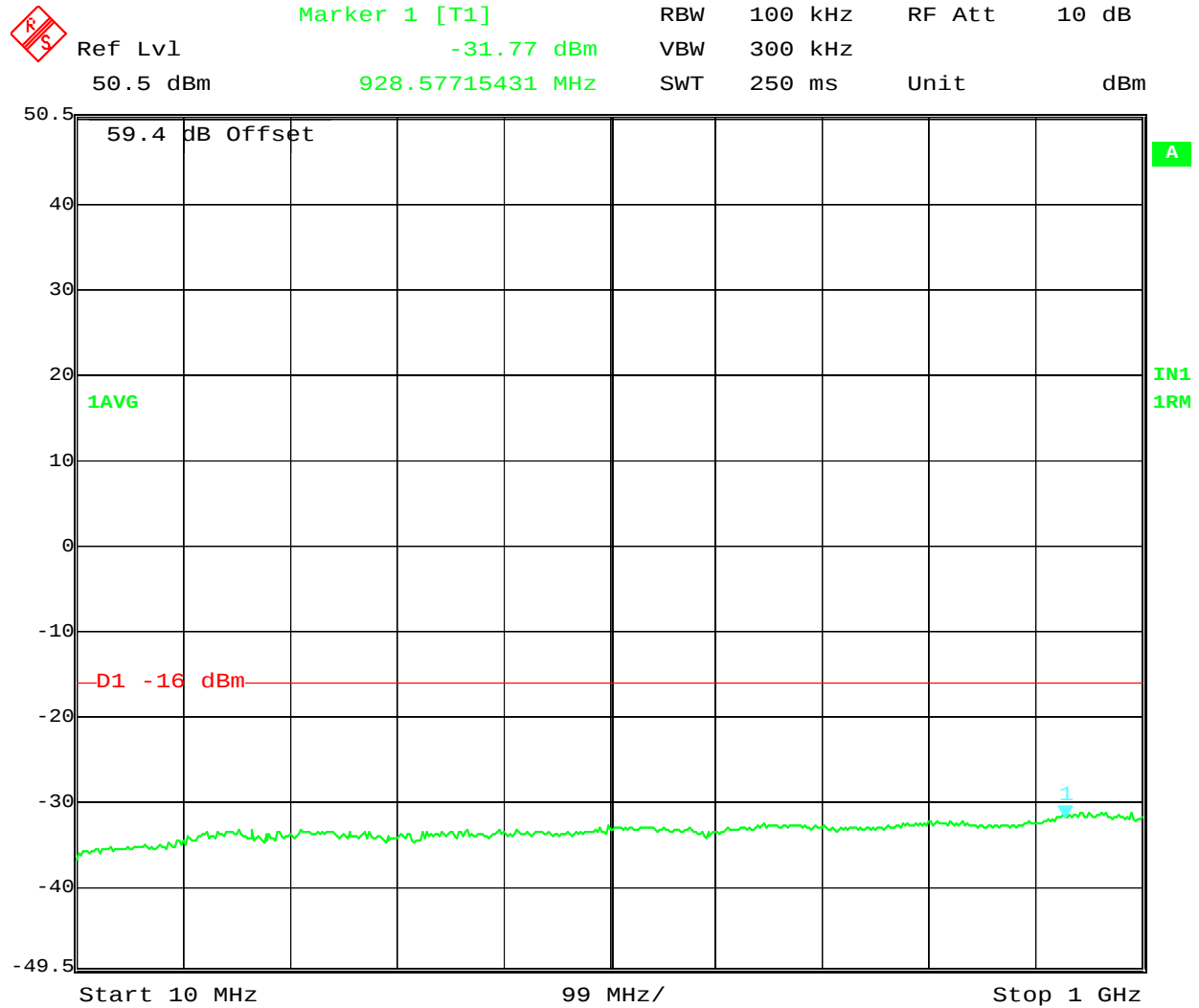
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:42:39

Transmit Port
Antenna Conducted Spurious Emissions

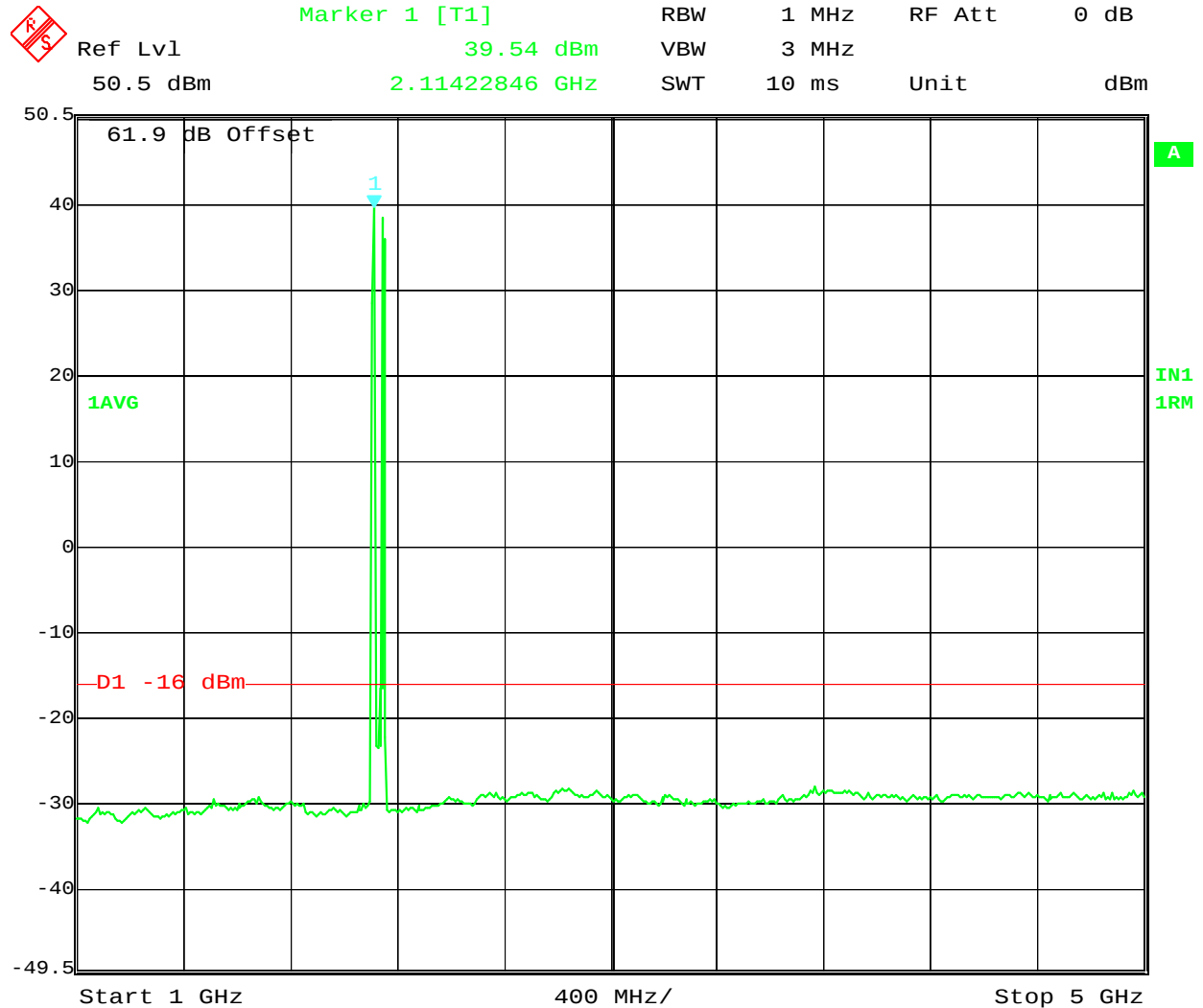
Block: A+F
10+10 MHz Bandwidth (2110-2120 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
16QAM Modulation



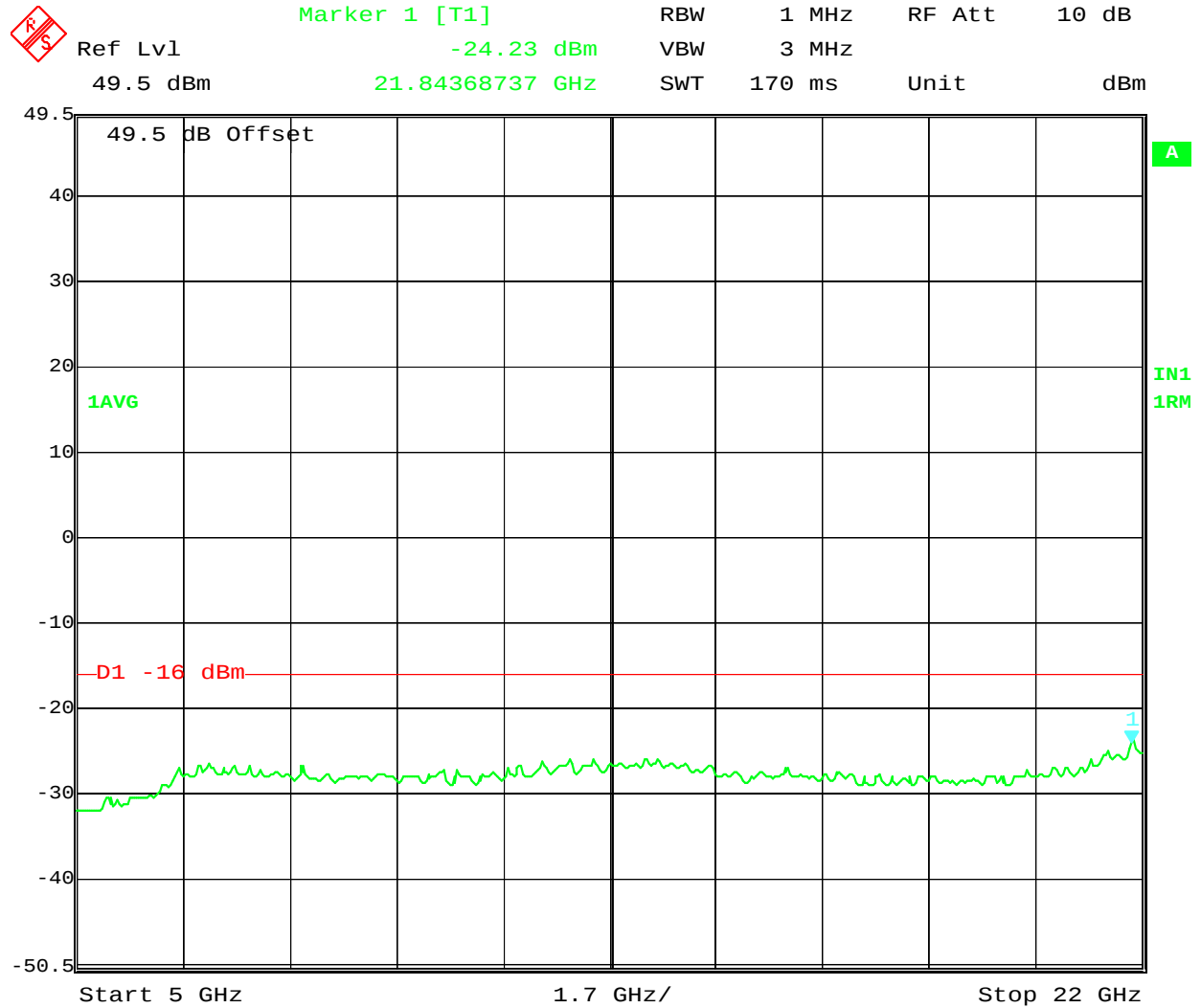
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:12:36



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:13:43



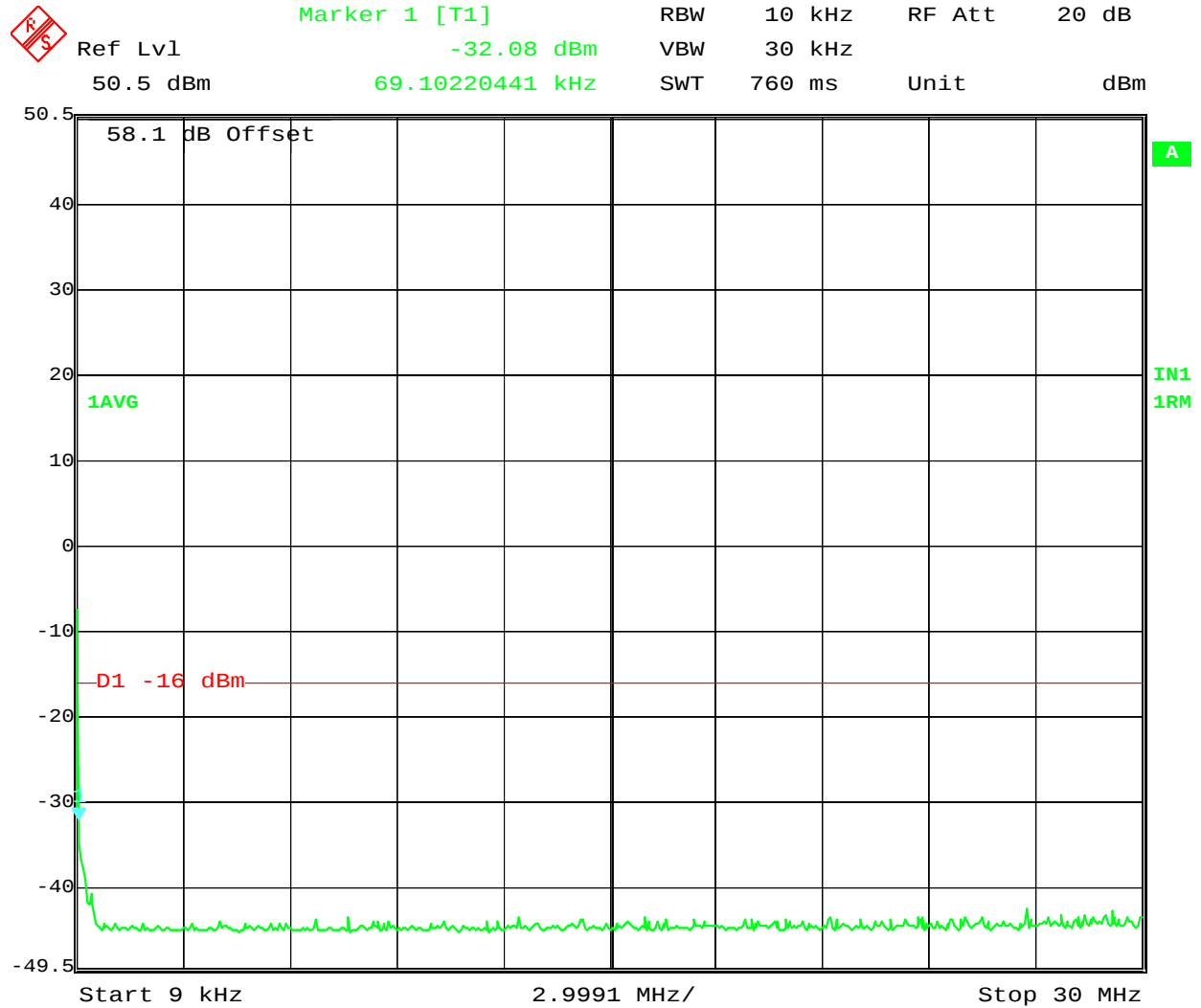
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:14:44



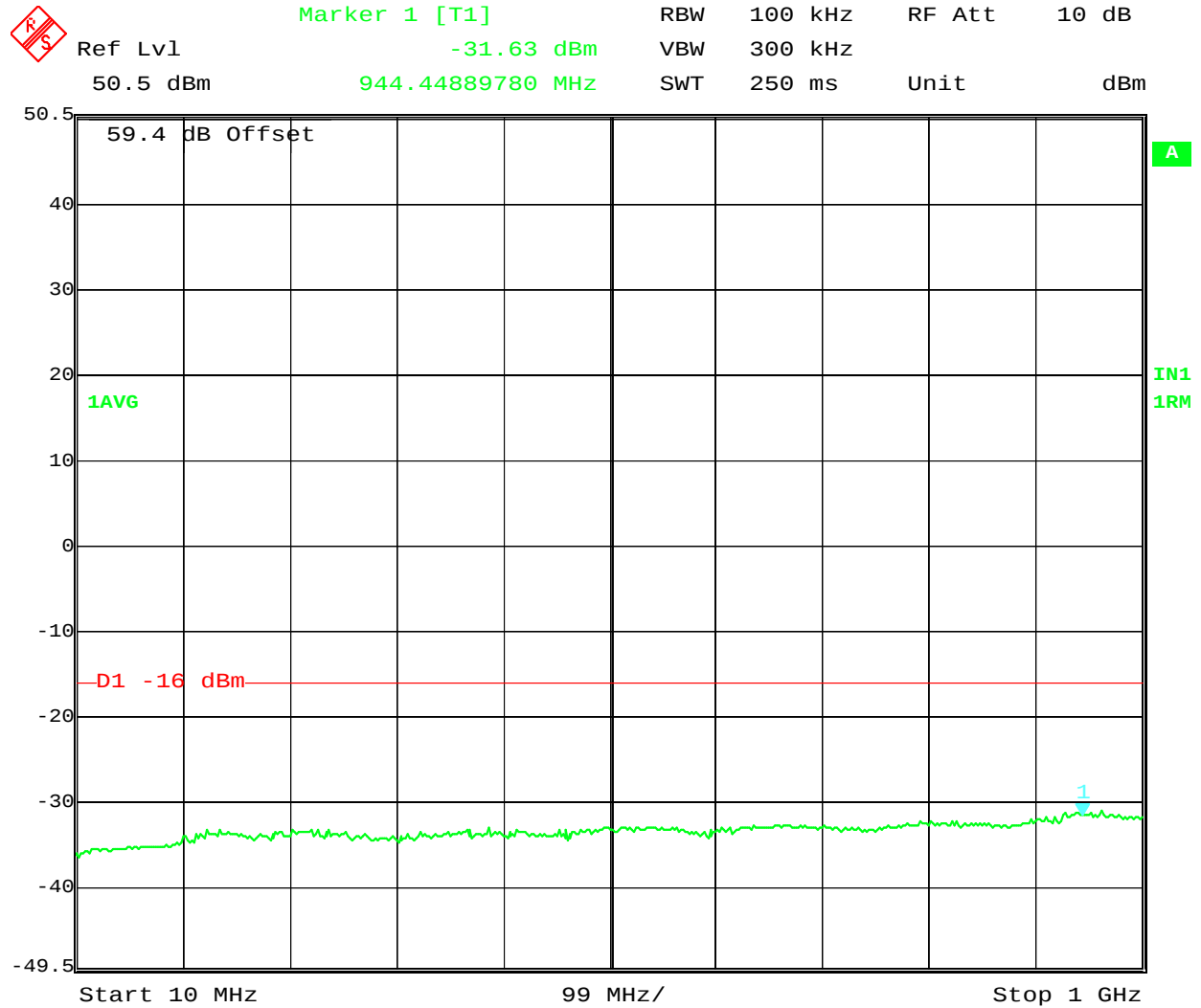
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:36:32

Transmit Port
Antenna Conducted Spurious Emissions

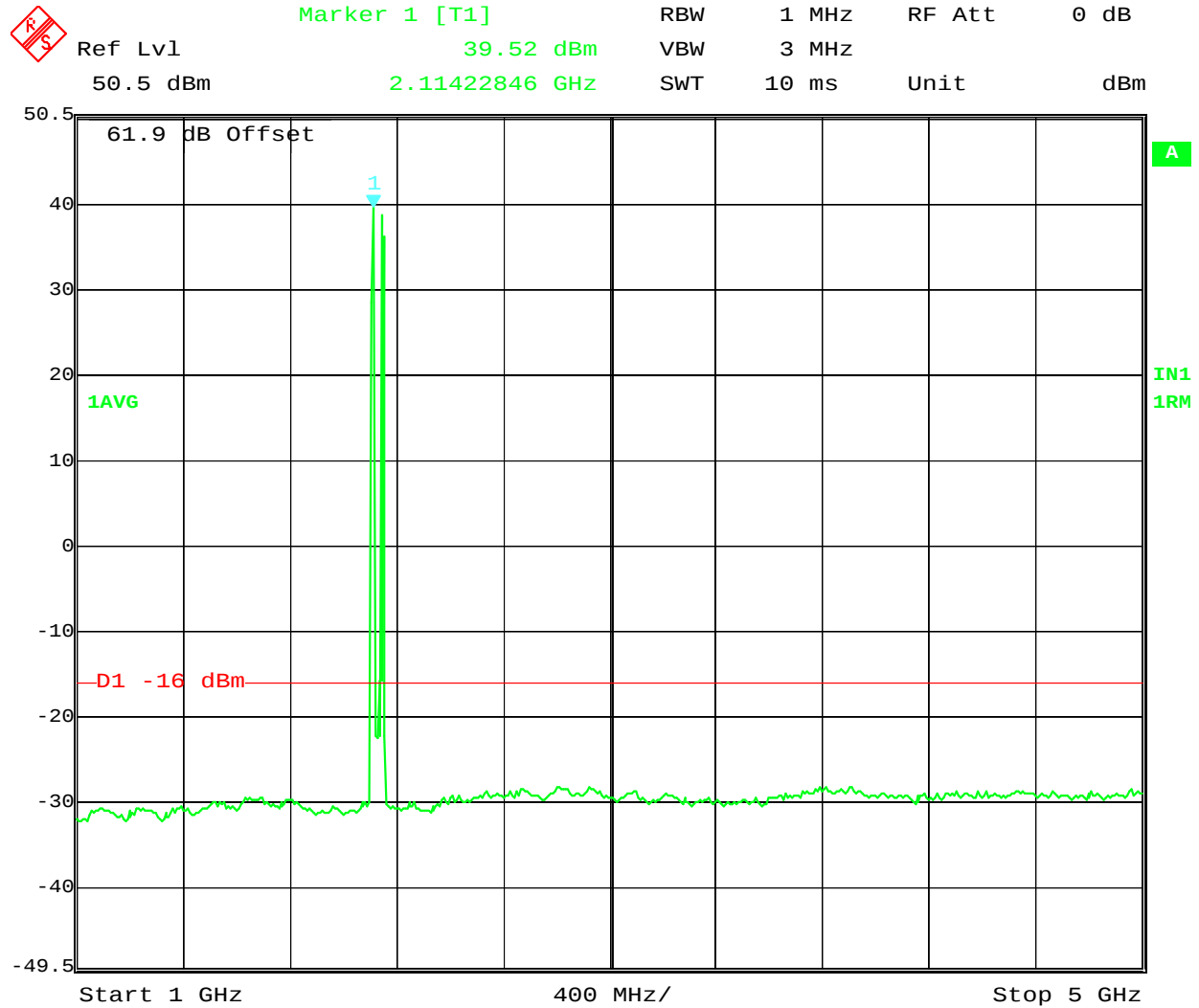
Block: A+F
10+10 MHz Bandwidth (2110-2120 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
64QAM Modulation



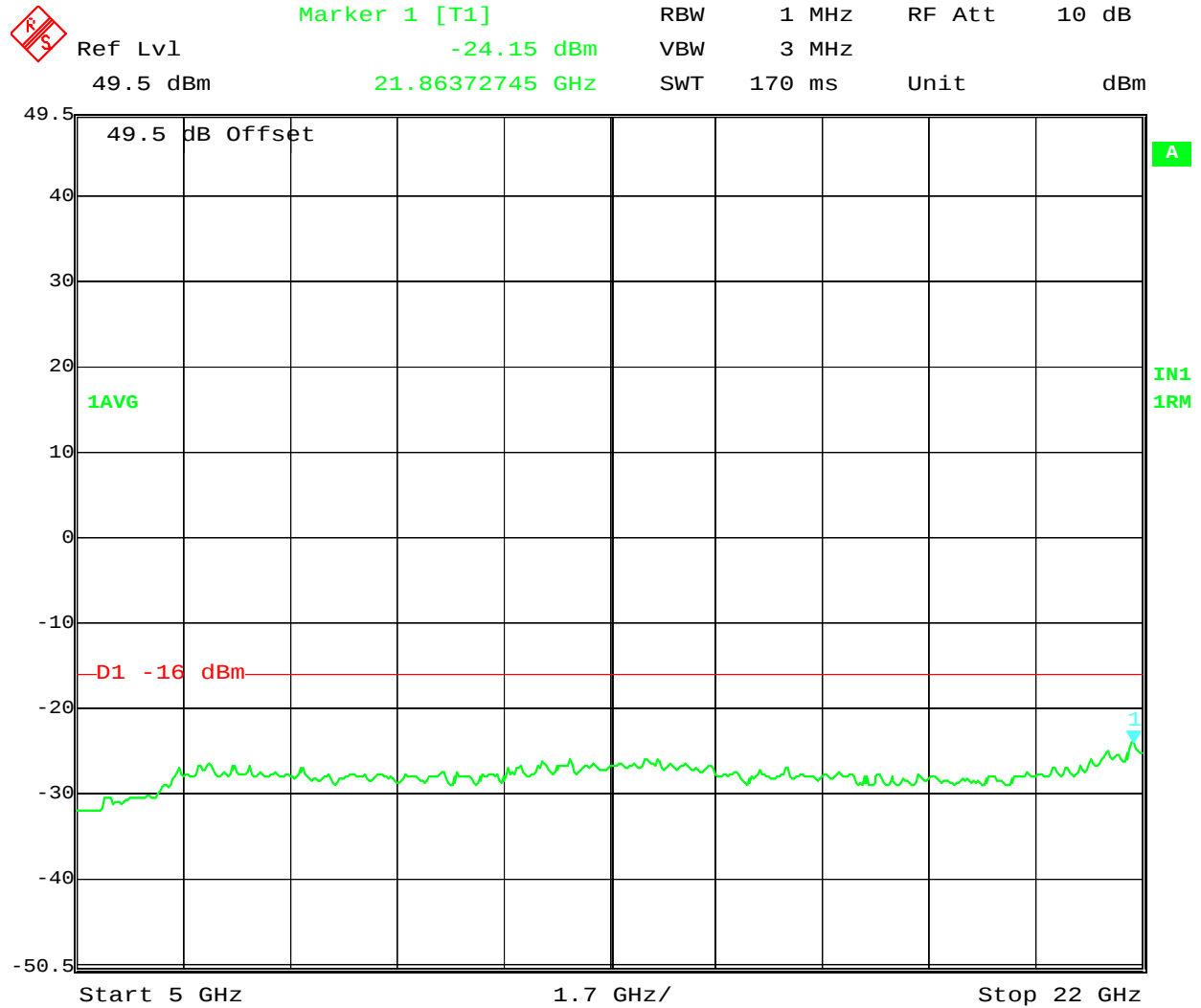
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:21:33



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:22:17



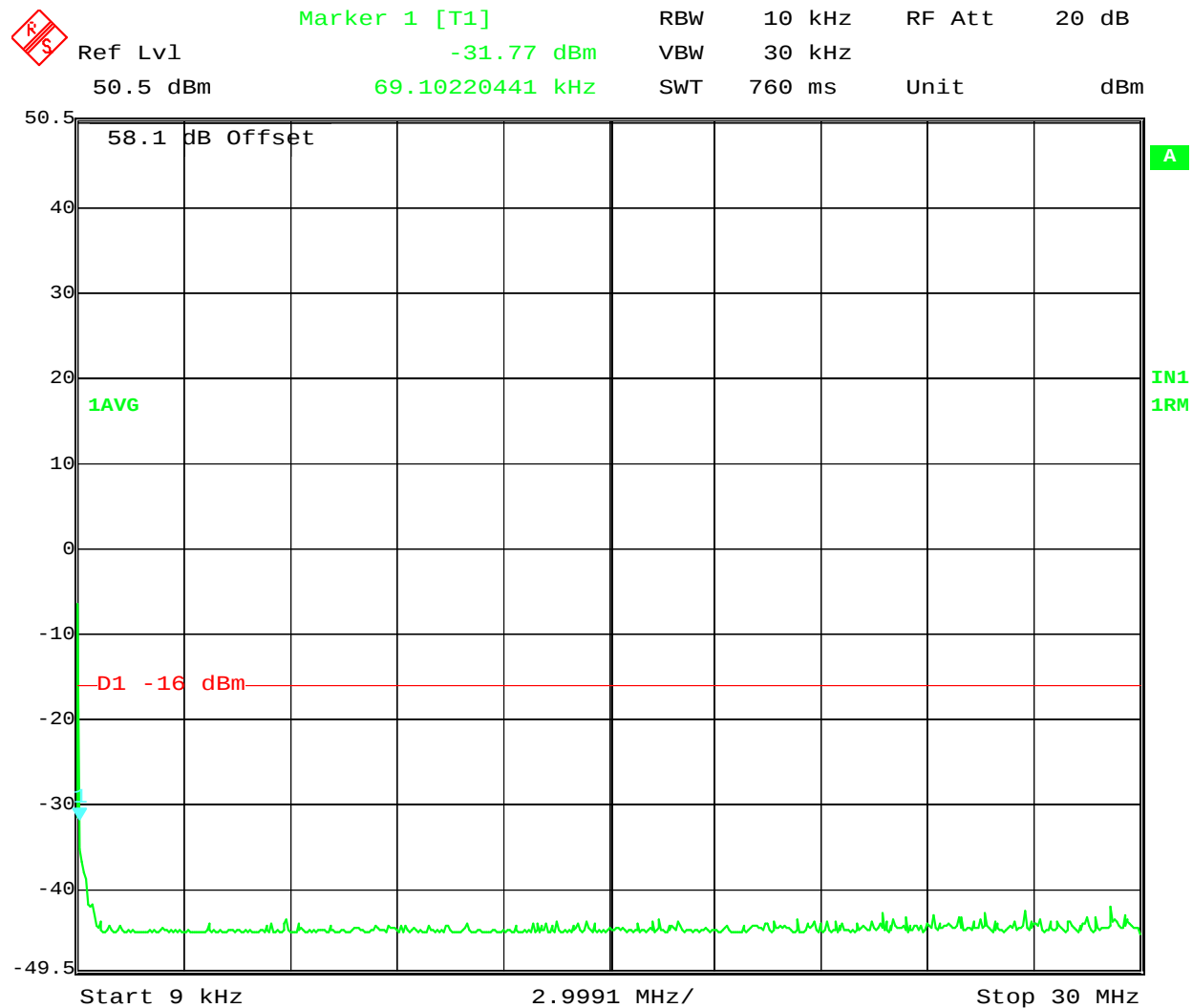
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:22:54



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A&F; 2115MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:16:17

Transmit Port
Antenna Conducted Spurious Emissions

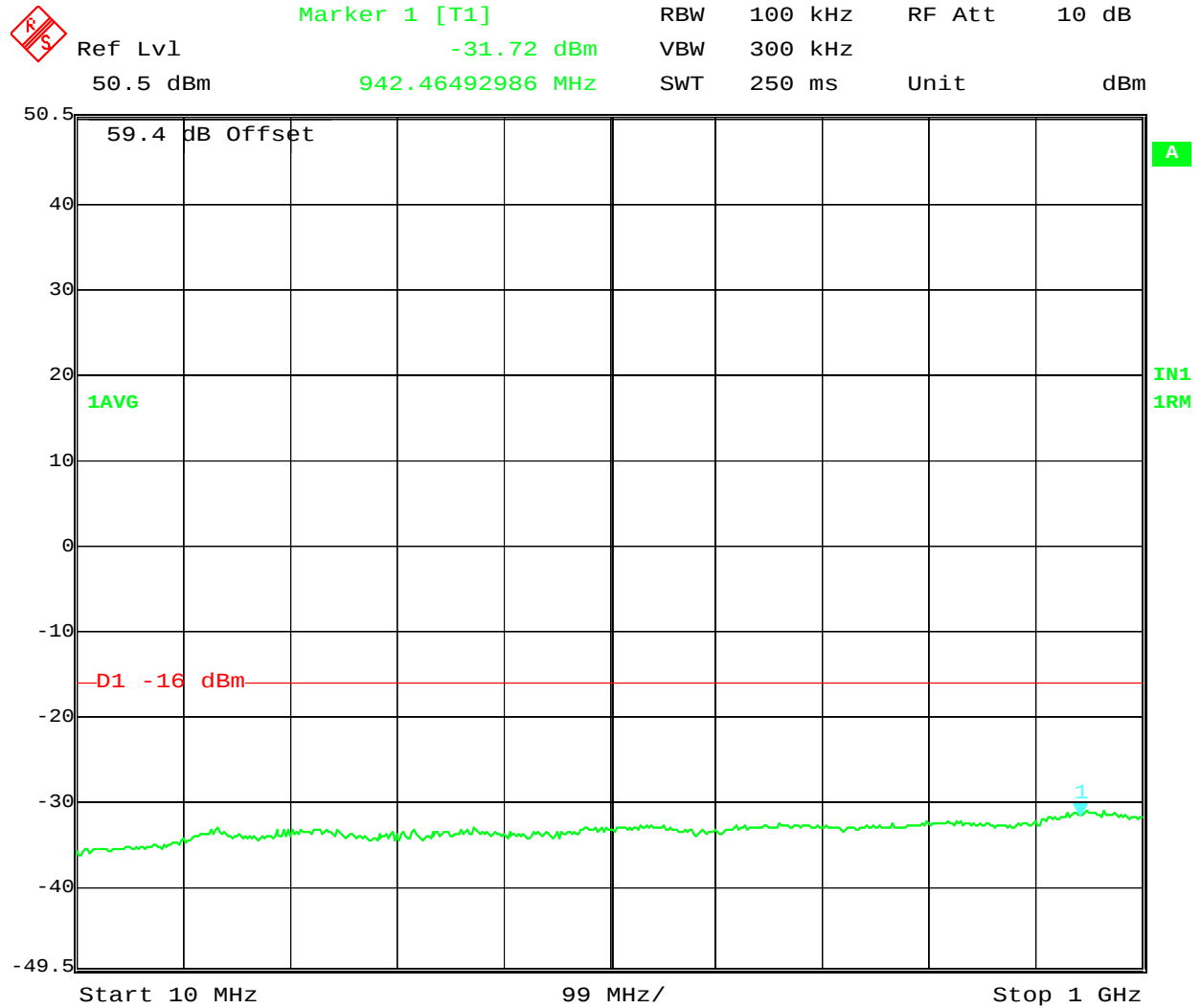
Block: B+D+E
10+10 MHz Bandwidth (2120-2130 MHz + 2135-2145 MHz)
2x120 watts (MIMO)
QPSK Modulation



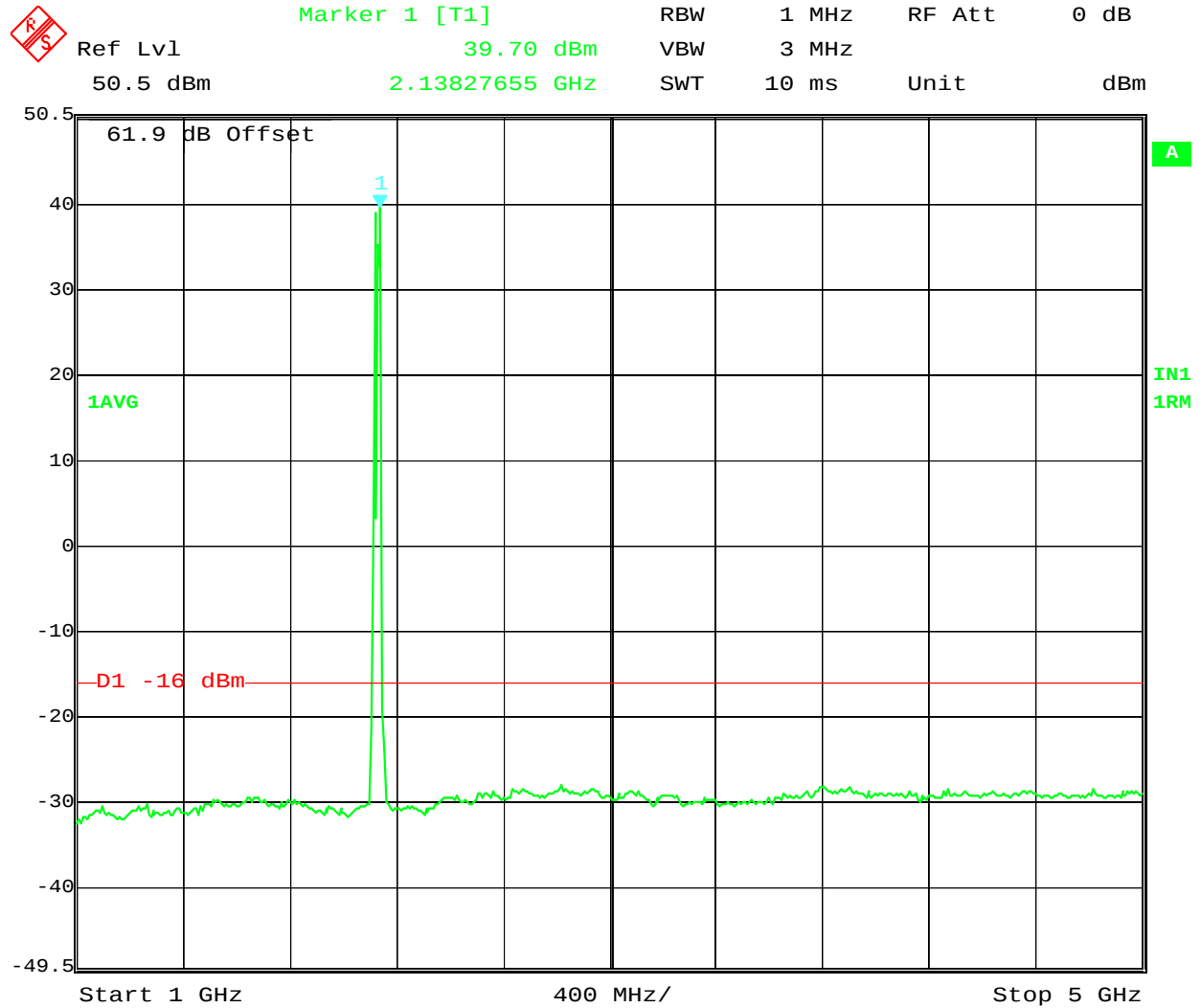
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13

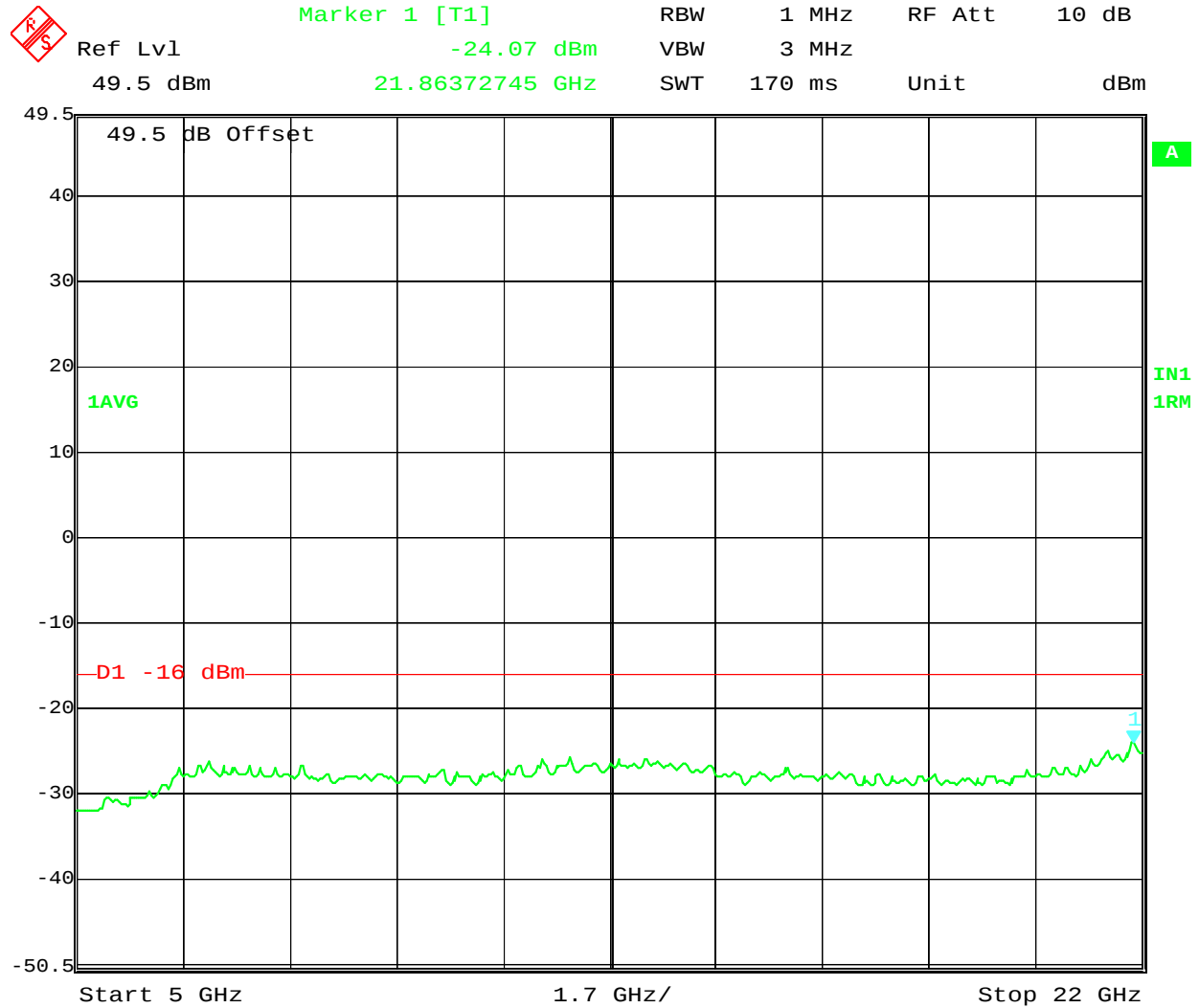
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Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 20.AUG.2013 14:02:15



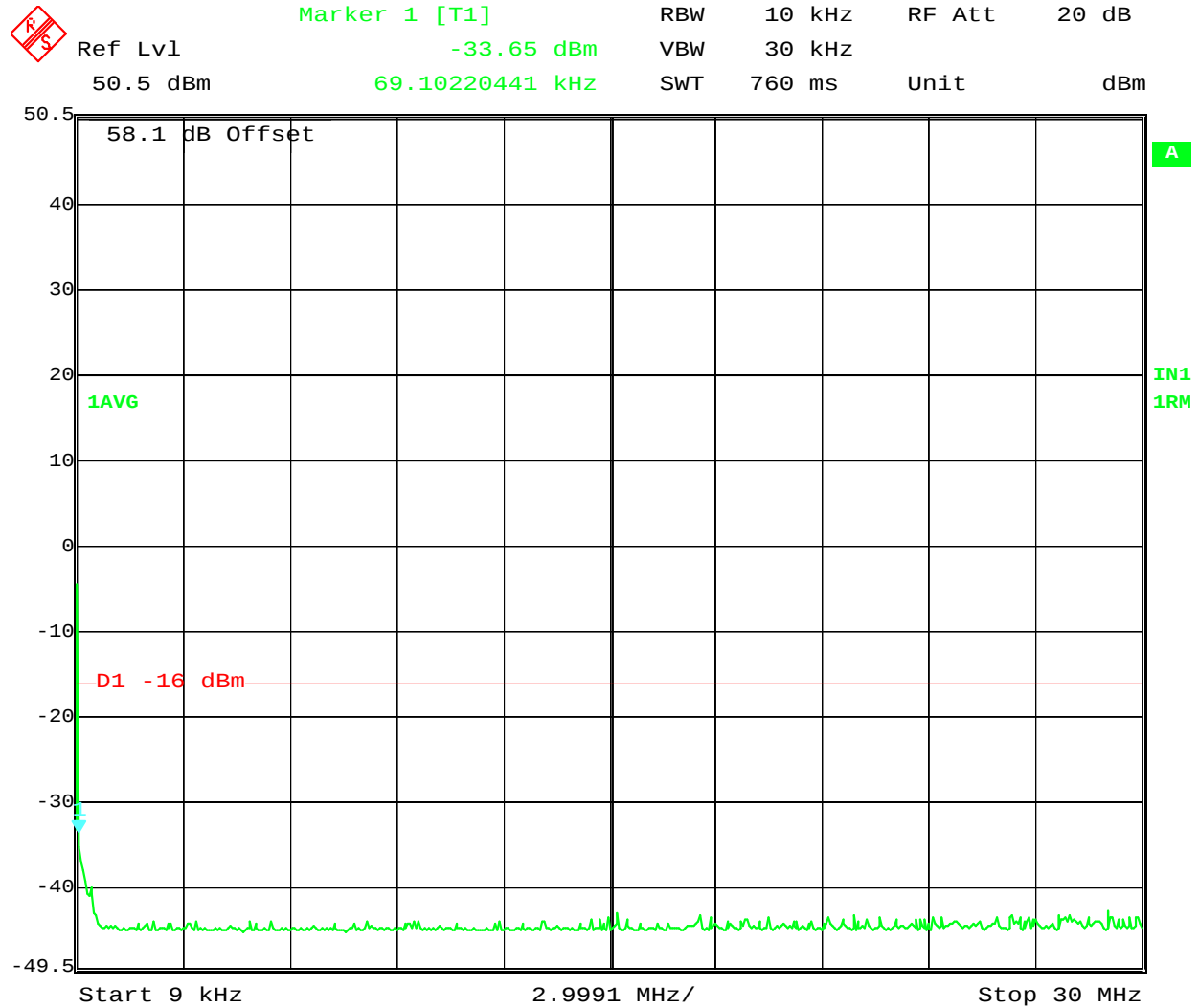
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 14:01:36



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 HPF; QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 14:00:59

**Transmit Port
Antenna Conducted Spurious Emissions**

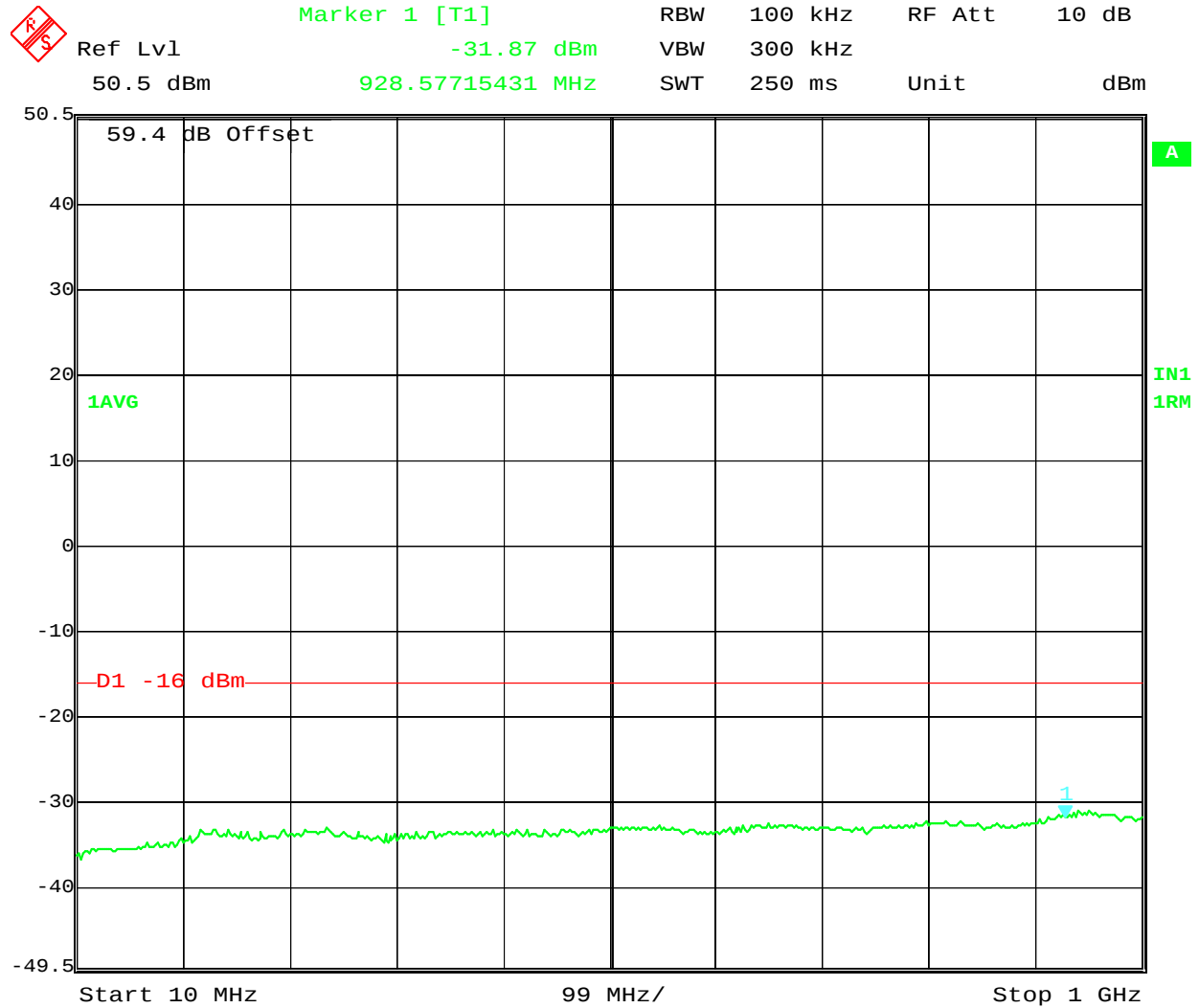
**Block: B+D+E
10+10 MHz Bandwidth (2120-2130 MHz + 2135-2145 MHz)
2x120 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

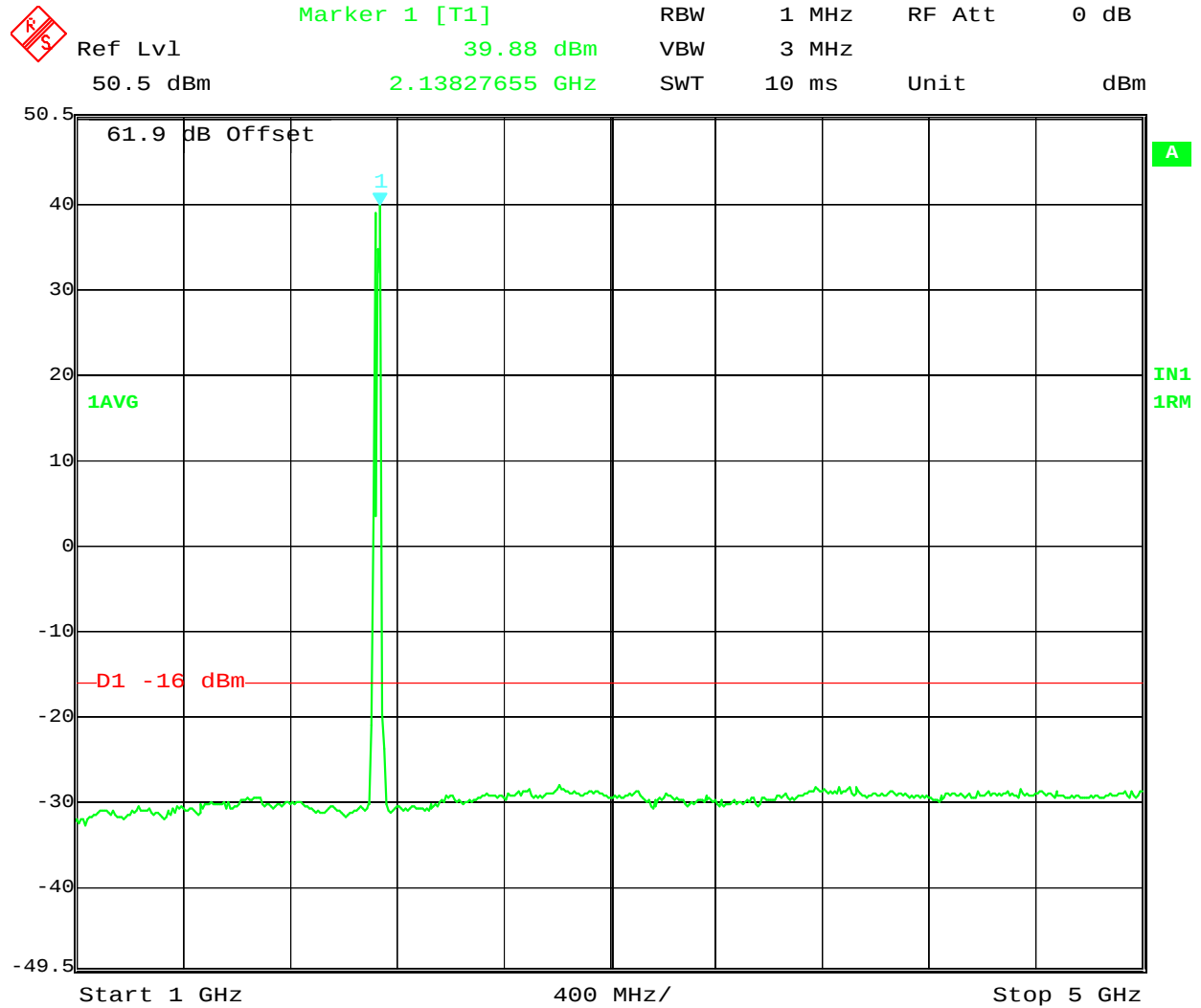
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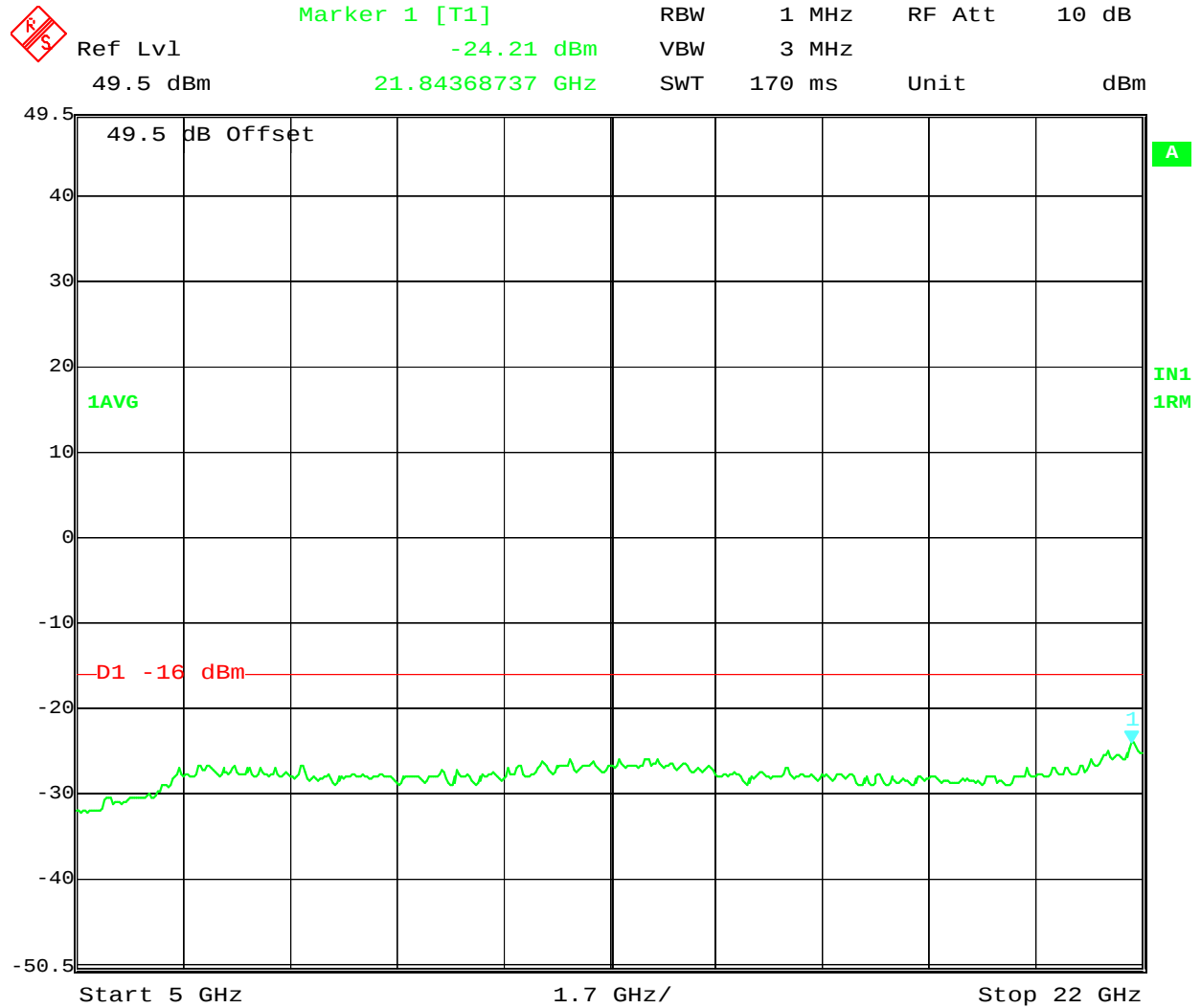
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 20.AUG.2013 11:34:53



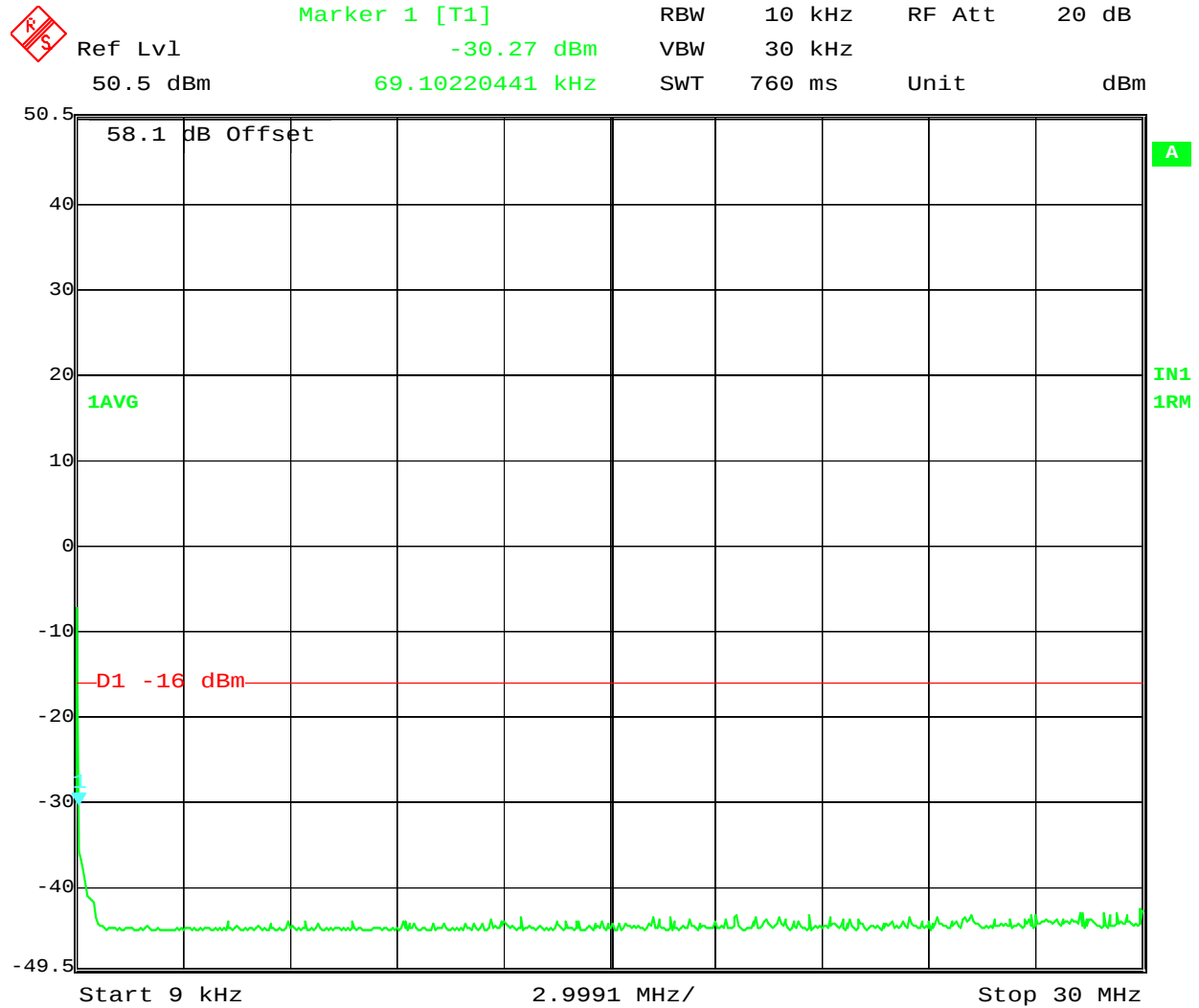
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 11:36:31



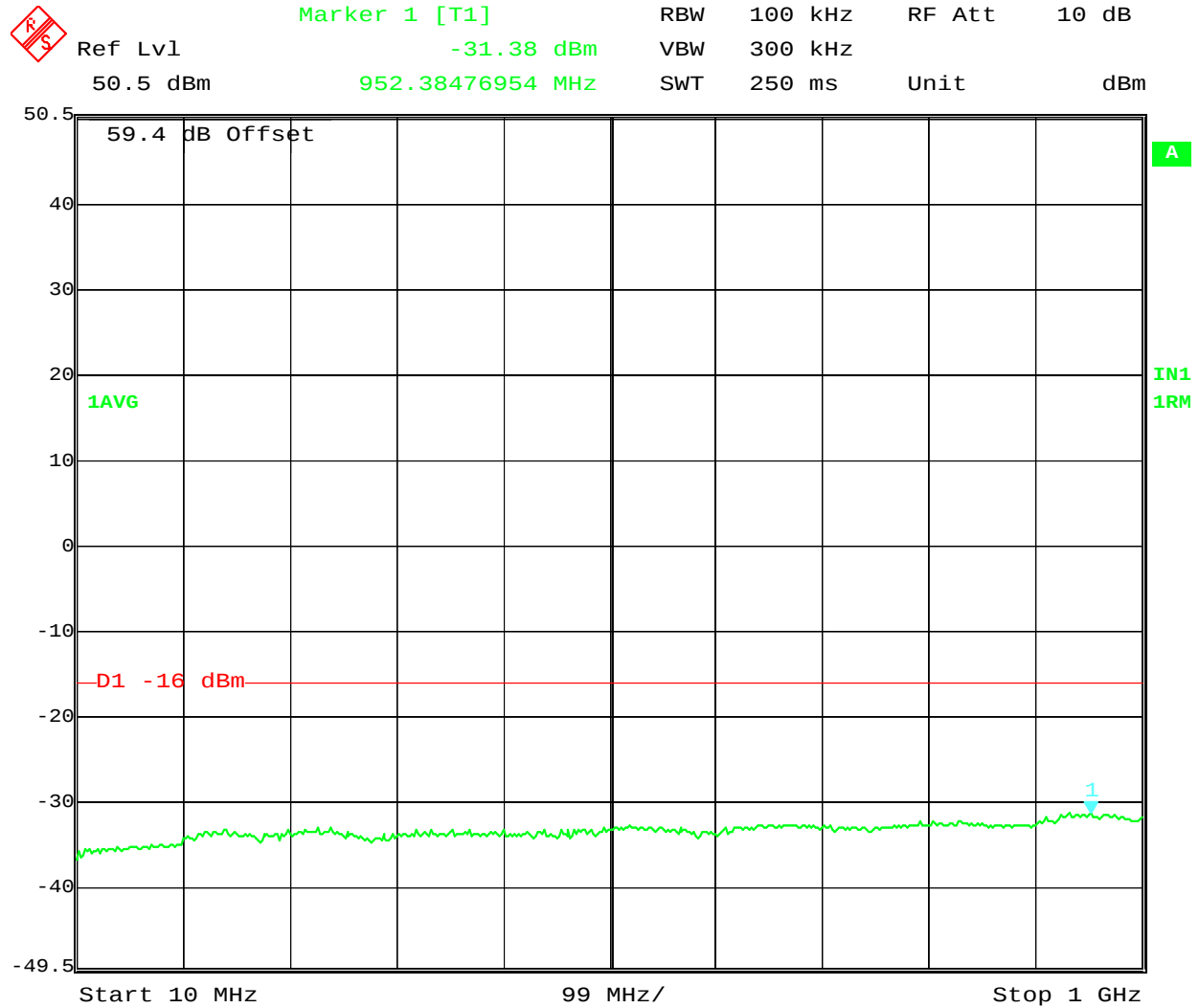
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 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 HPF; 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 12:00:03

**Transmit Port
Antenna Conducted Spurious Emissions**

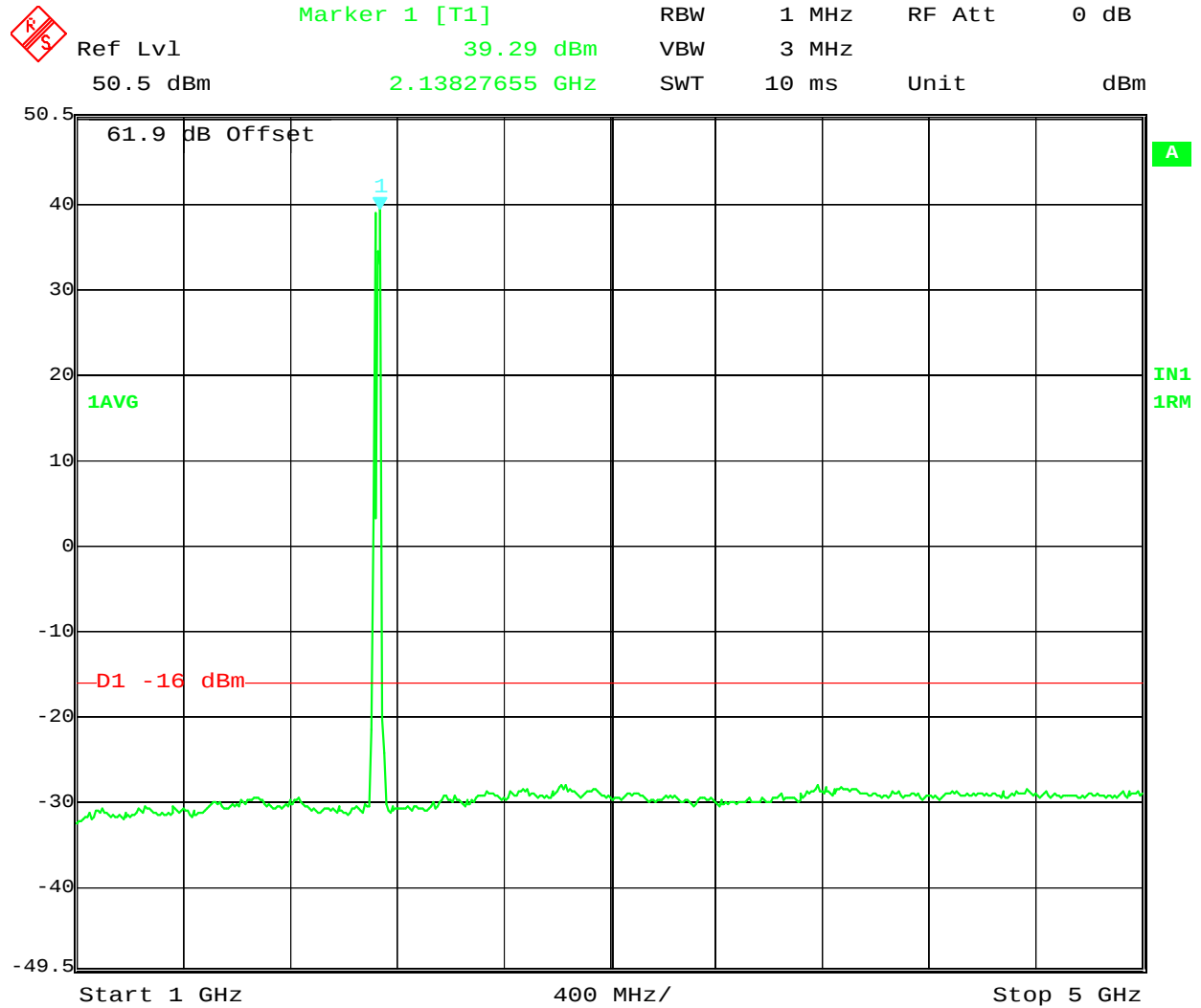
**Block: B+D+E
10+10 MHz Bandwidth (2120-2130 MHz + 2135-2145 MHz)
2x120 watts (MIMO)
64QAM Modulation**



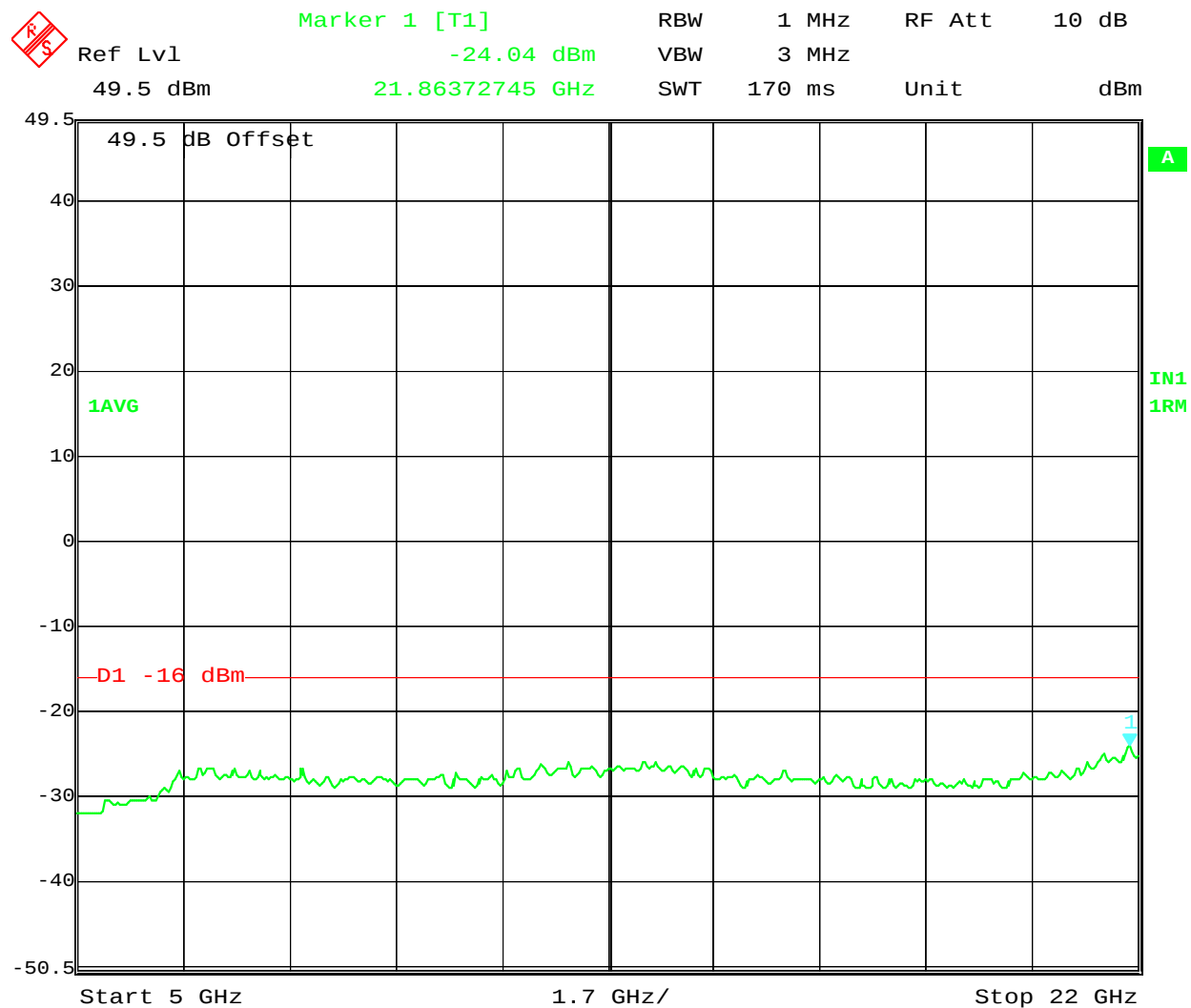
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:38:05



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:39:14



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 20.AUG.2013 13:40:44



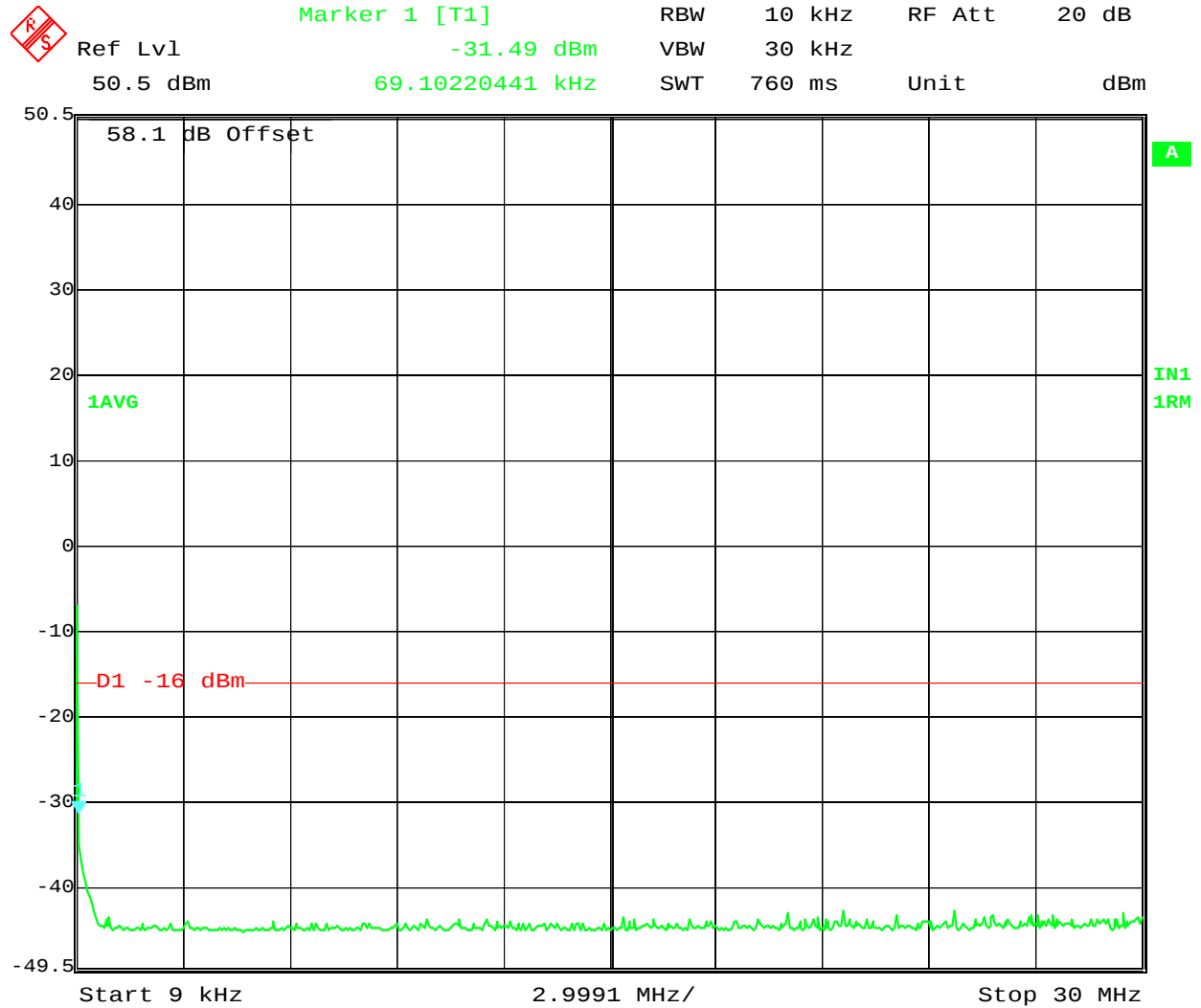
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK B,D&E; 2125MHz & 2140MHz; 10MHz BW; PWR:120W
 HPF; 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13

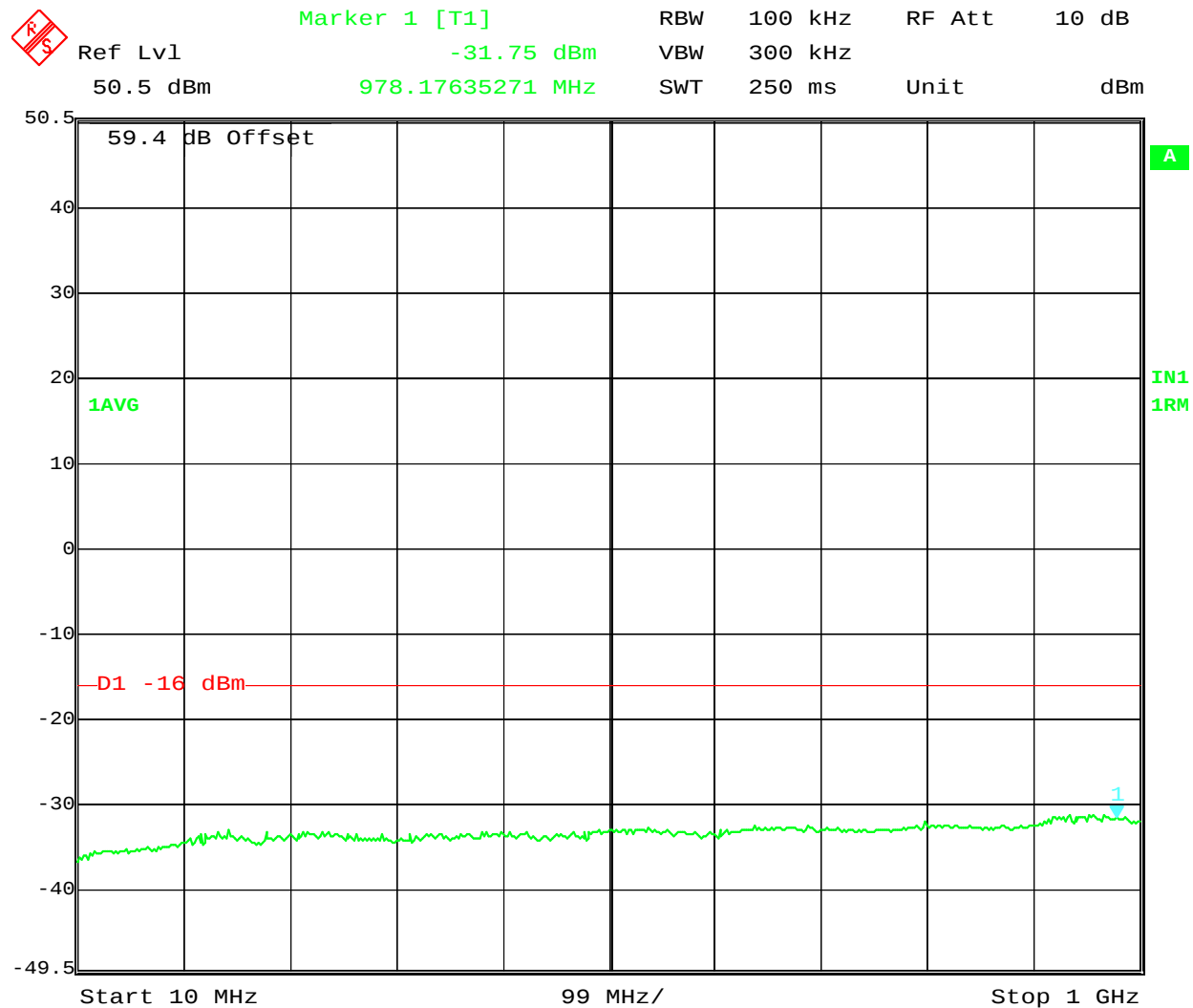
Date: 20.AUG.2013 13:42:33

**Transmit Port
Antenna Conducted Spurious Emissions**

**Block: C+D+F
10+10 MHz Bandwidth (2130-2140 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
QPSK Modulation**



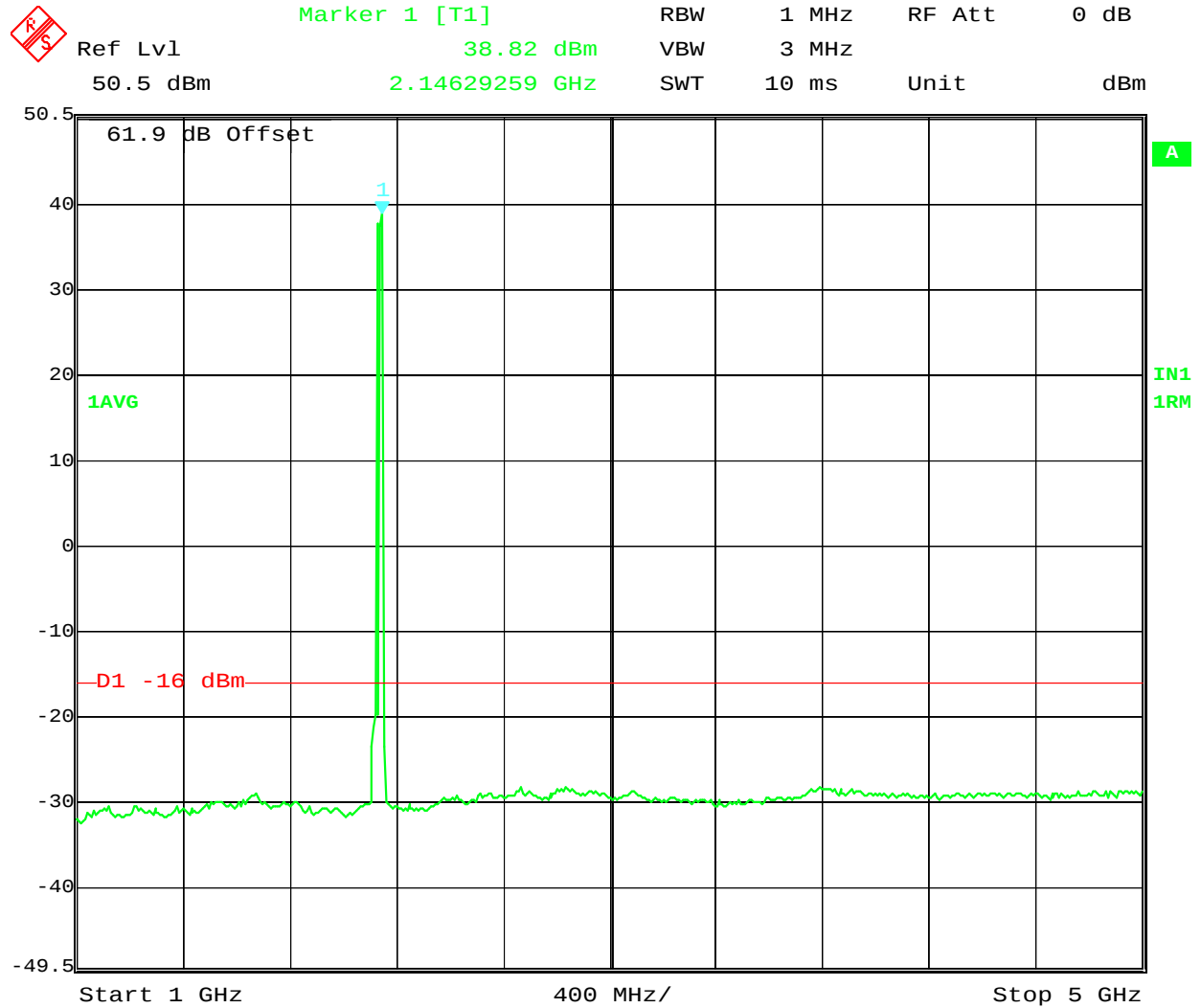
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 07:19:58



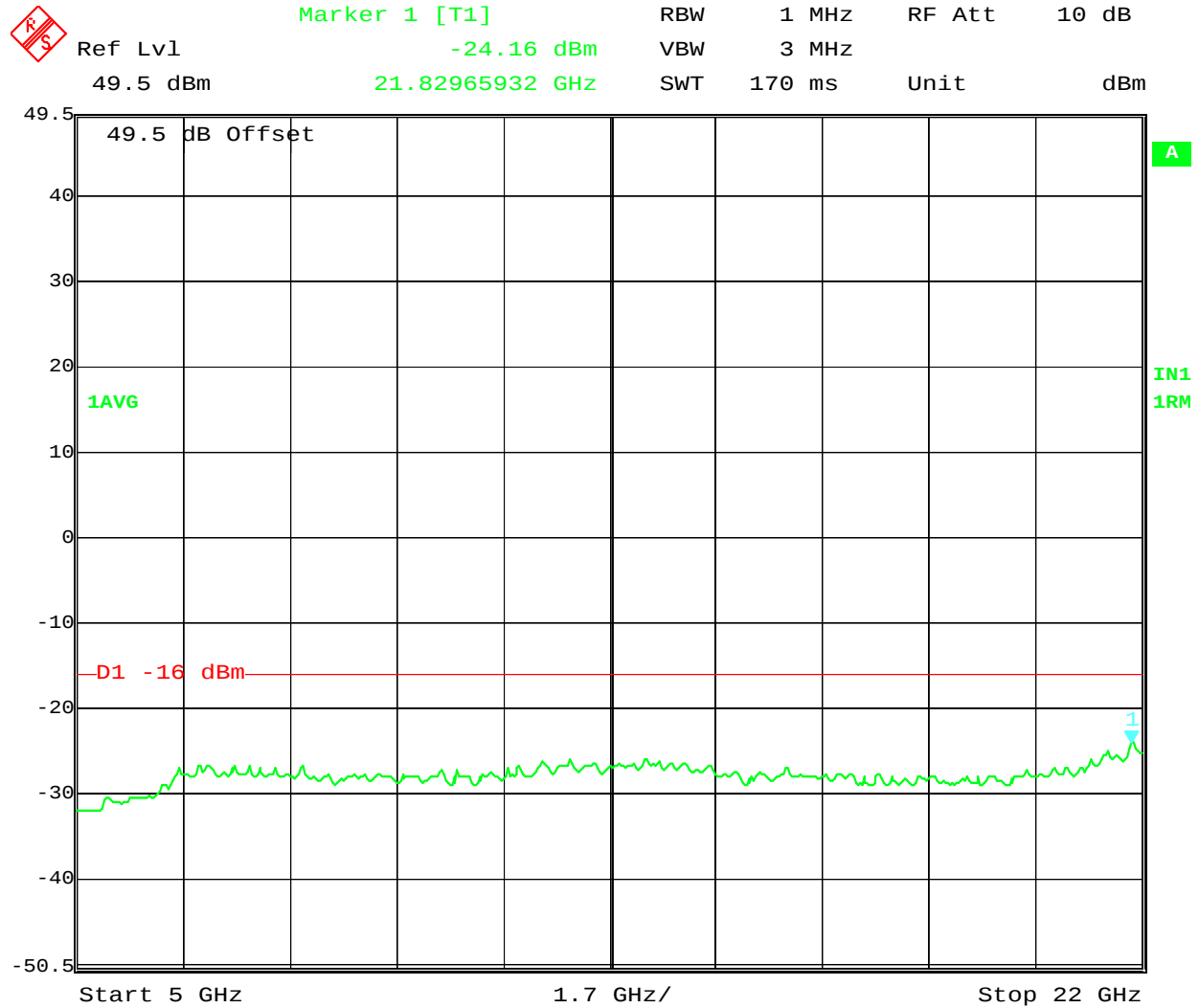
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 07:19:10



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 07:20:47



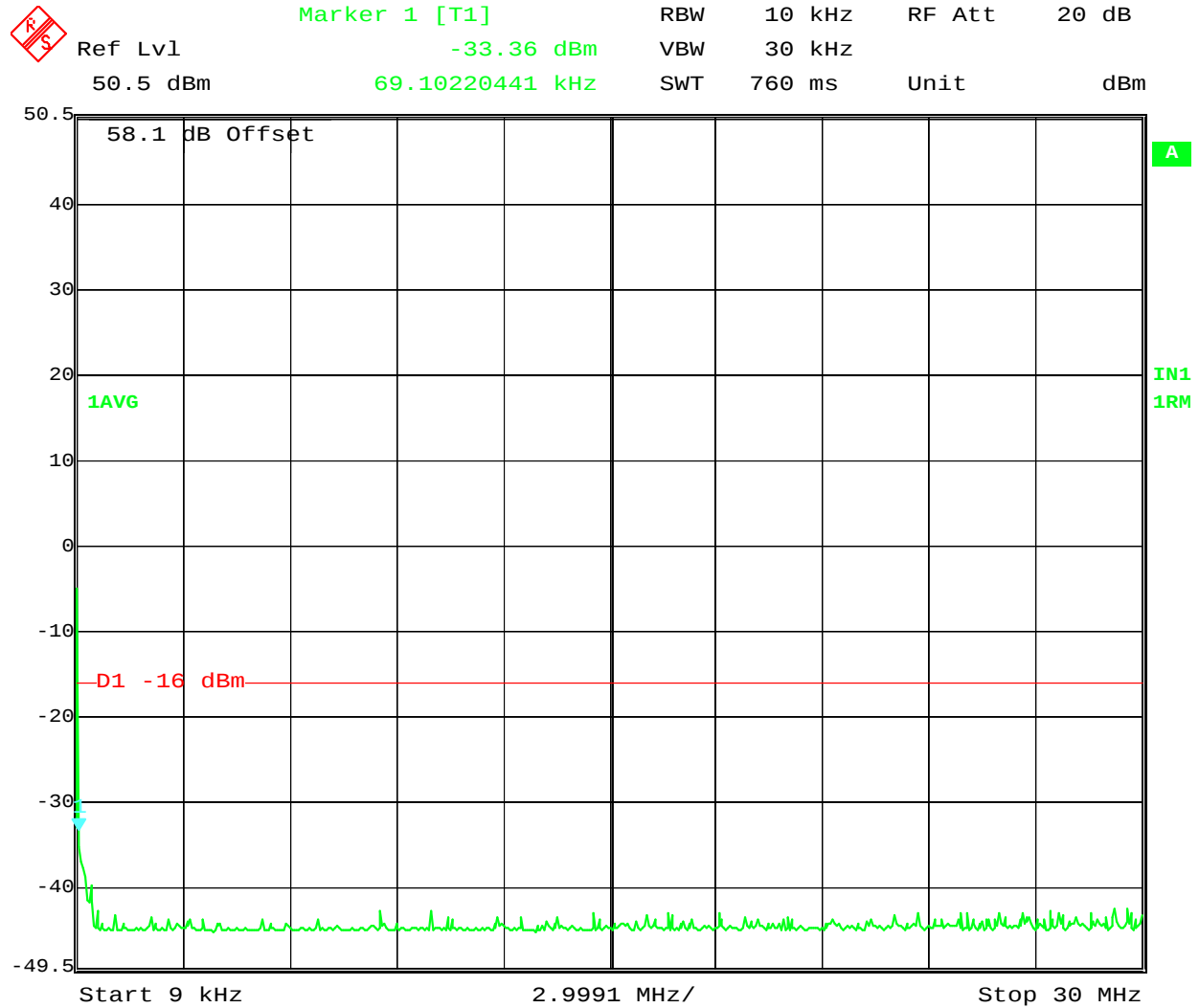
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; QPSK; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 07:21:53

**Transmit Port
Antenna Conducted Spurious Emissions**

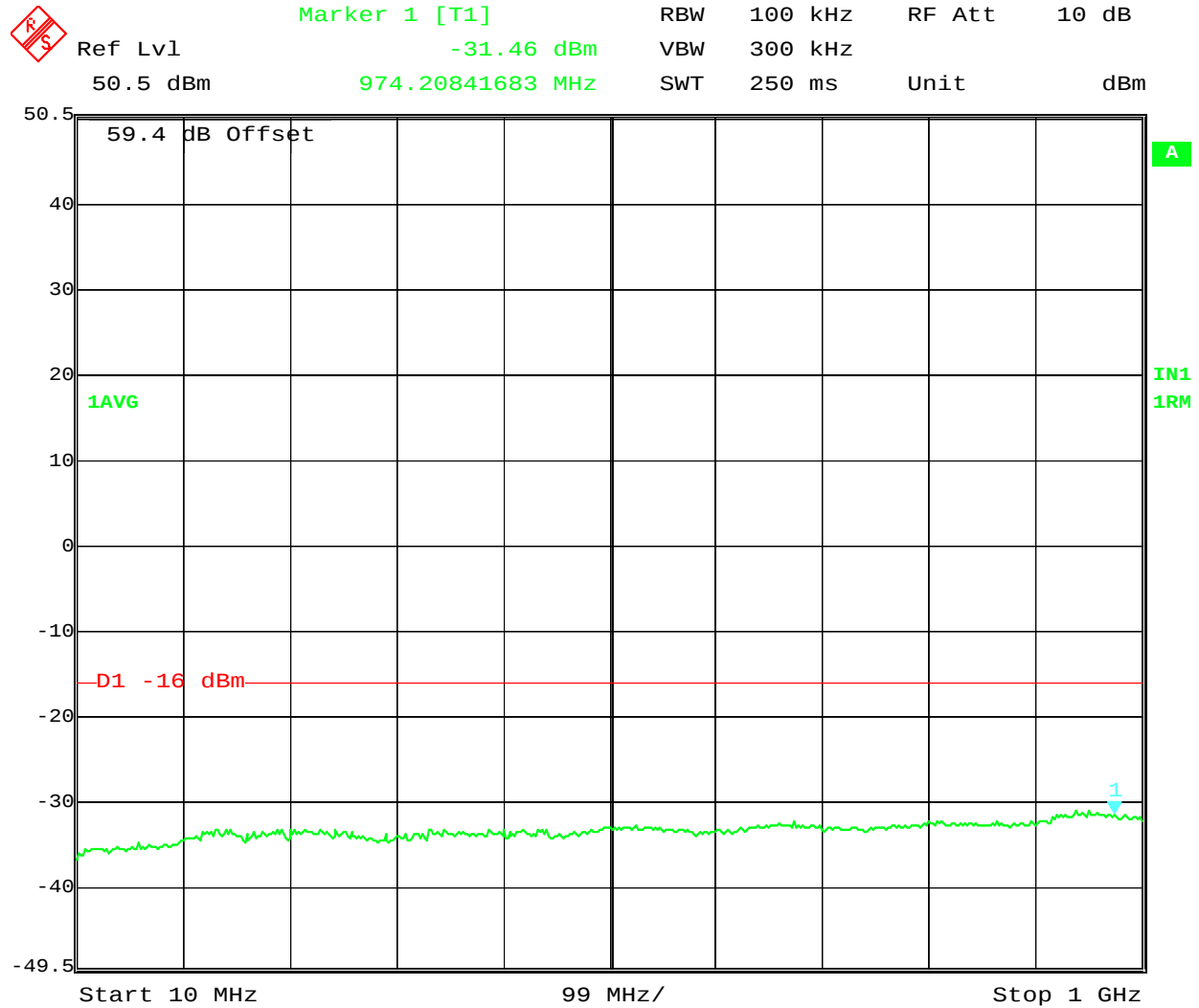
**Block: C+D+F
10+10 MHz Bandwidth (2130-2140 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

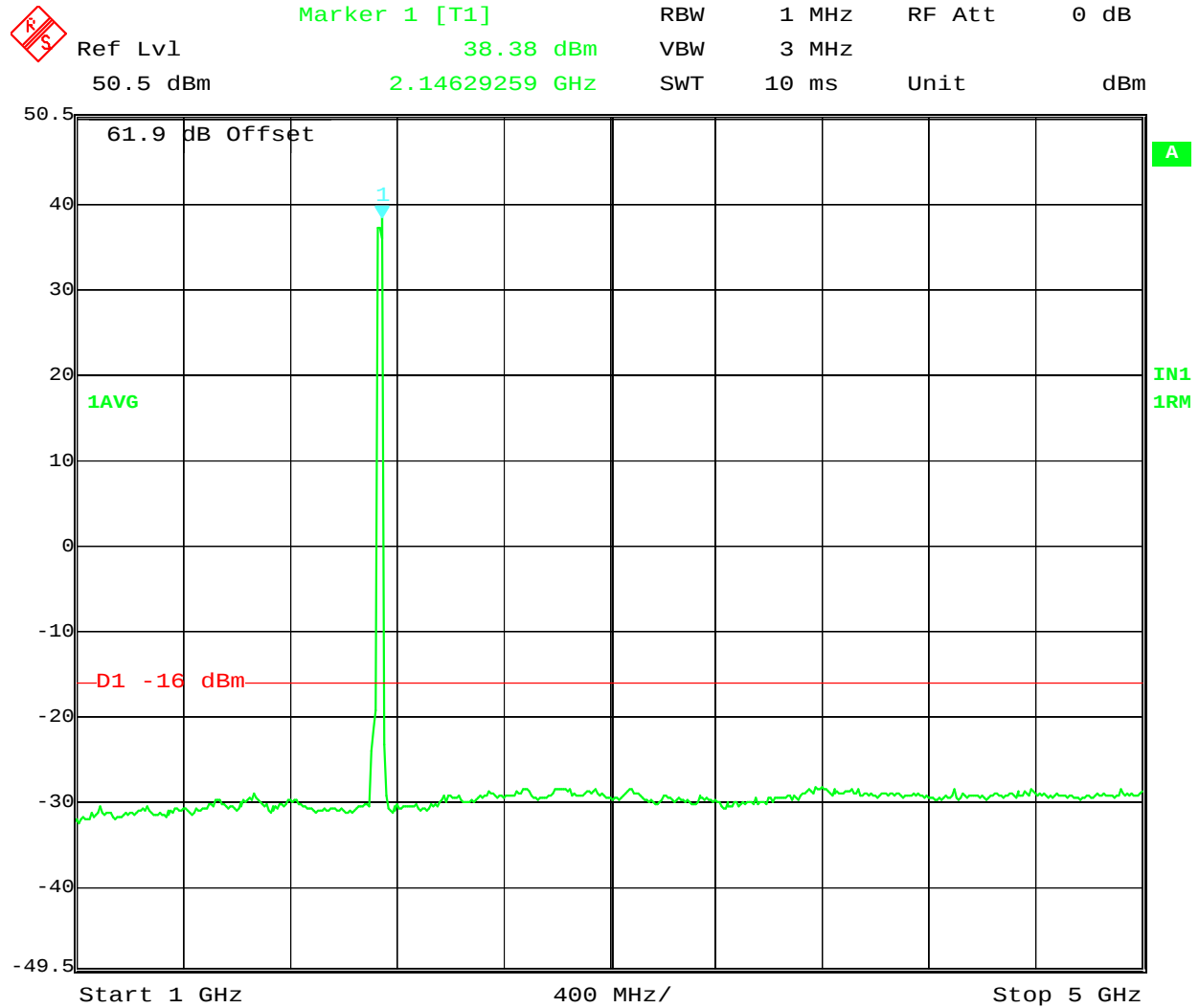
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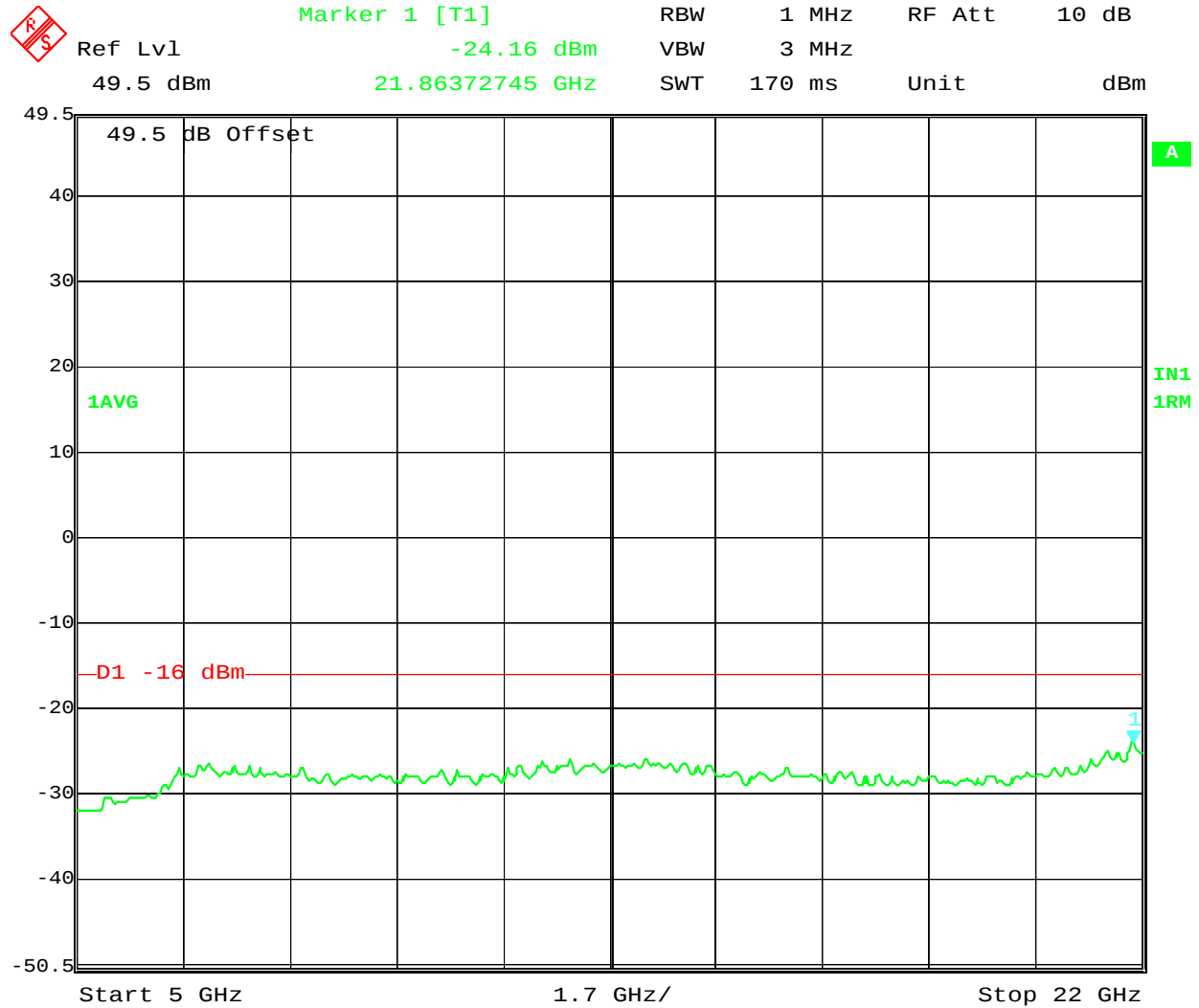
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 06:52:06



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 06:52:44



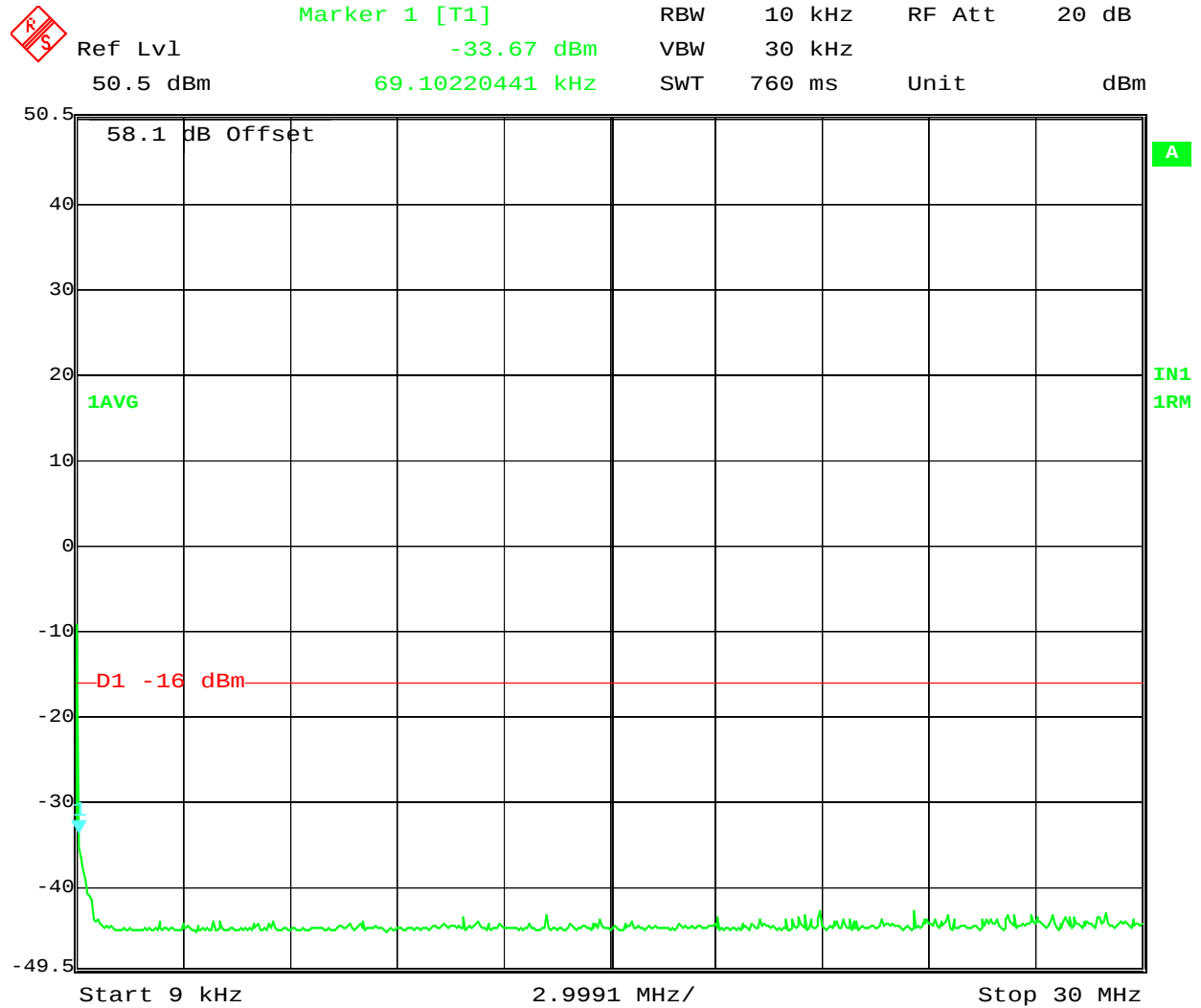
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 06:53:28

Transmit Port
Antenna Conducted Spurious Emissions

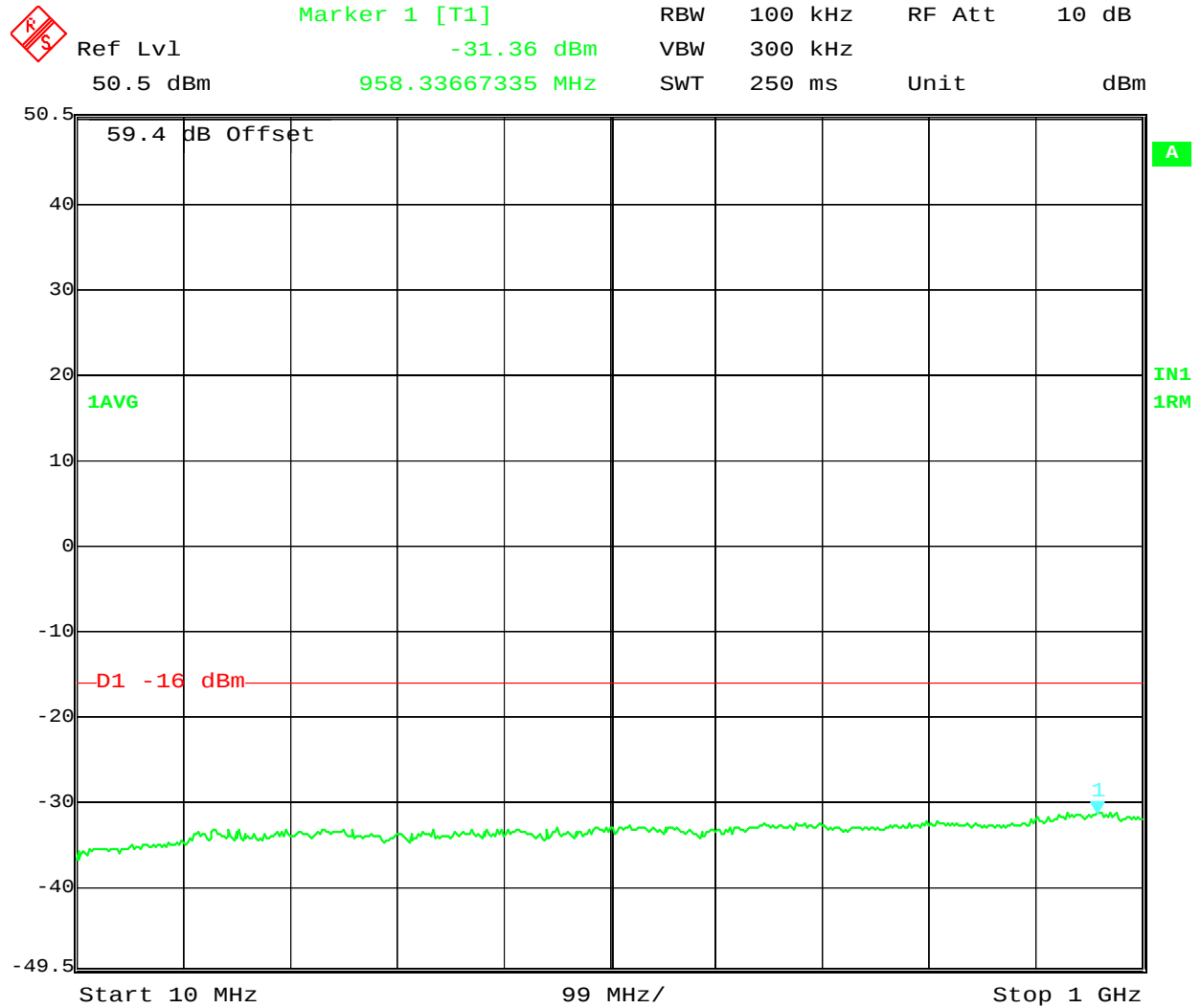
Block: C+D+F
10+10 MHz Bandwidth (2130-2140 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
64QAM Modulation



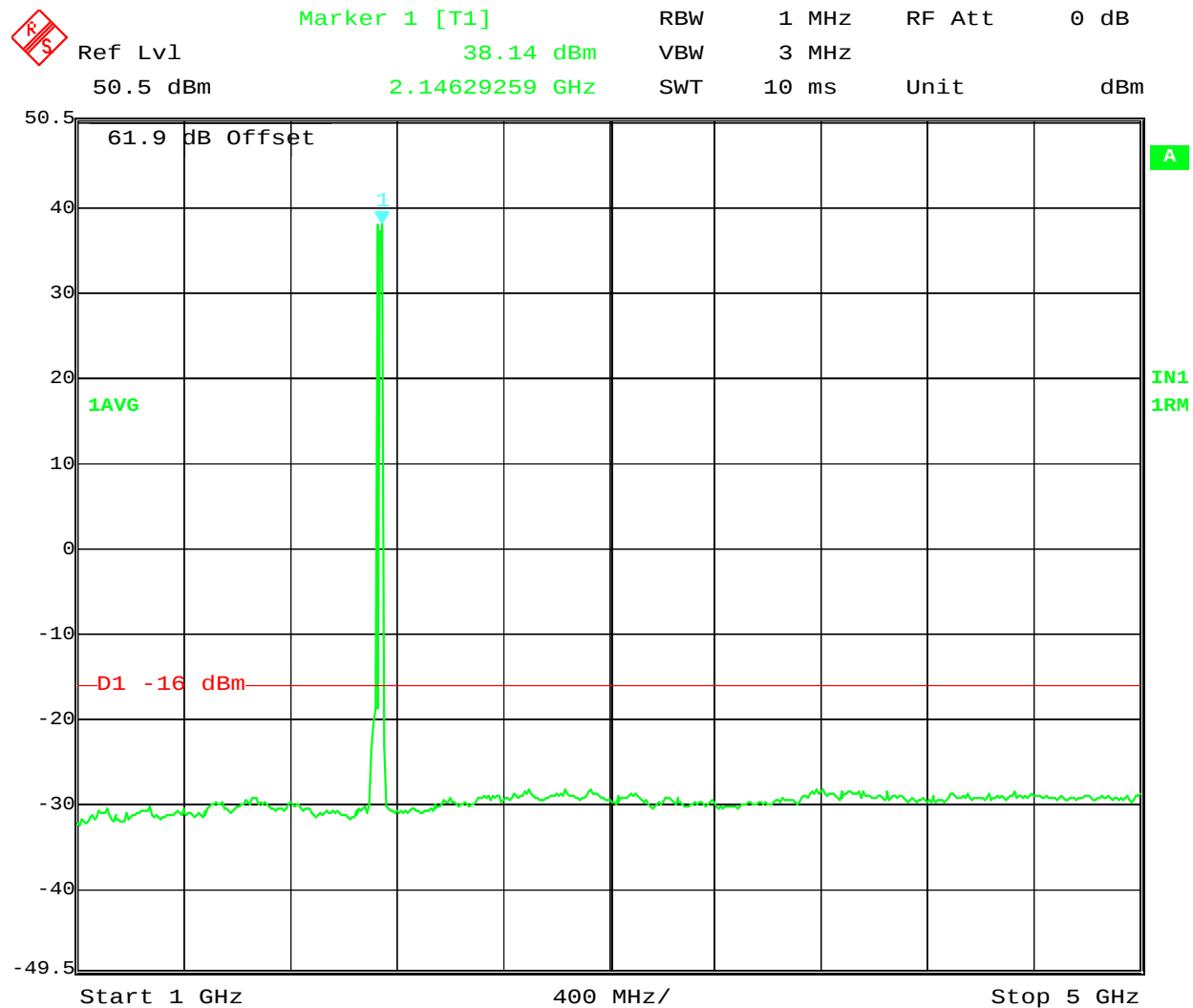
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 04:39:12



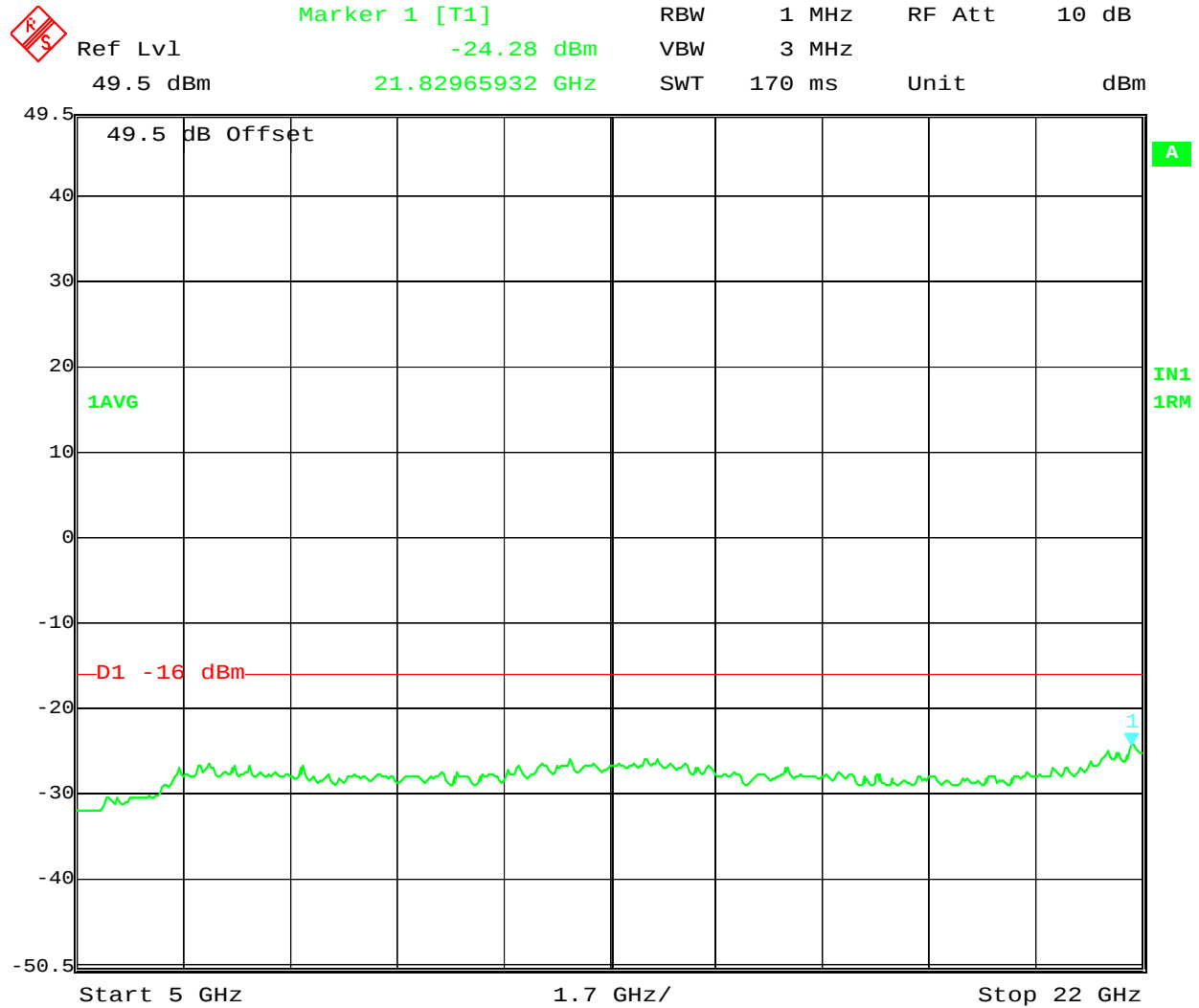
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 04:38:02



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 04:37:33



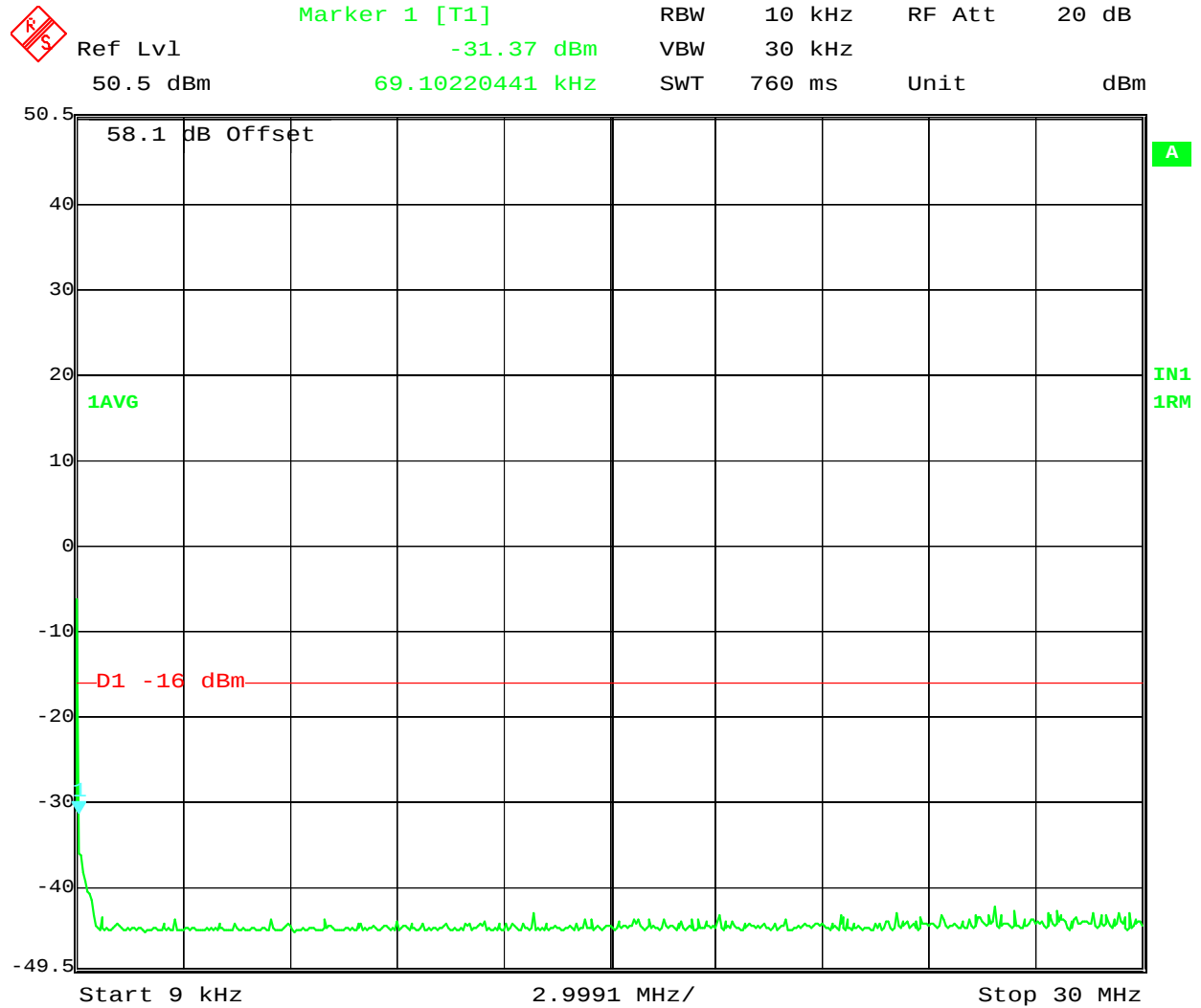
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C,D&F; 2135MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13

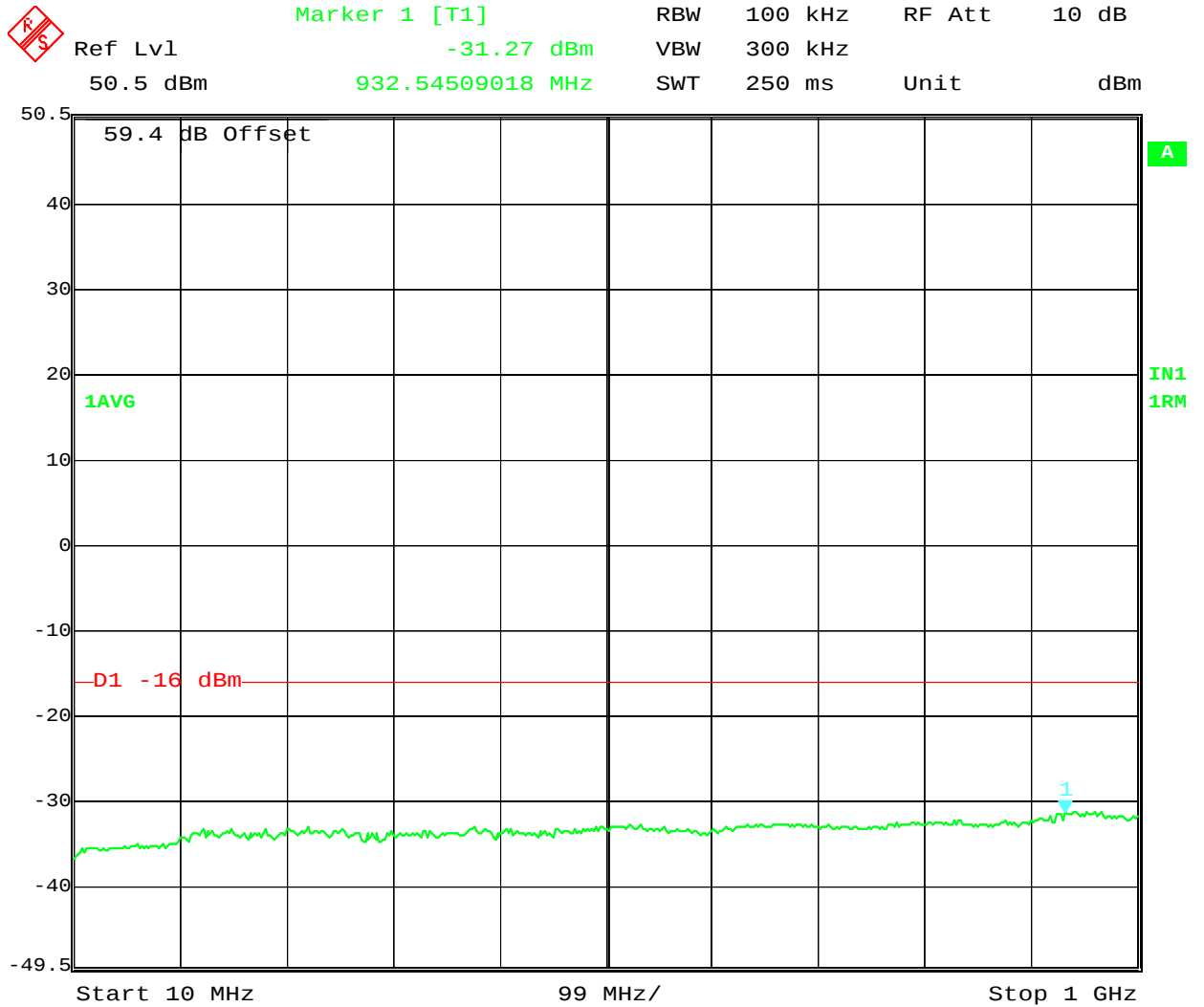
Date: 21.AUG.2013 04:37:08

**Transmit Port
Antenna Conducted Spurious Emissions**

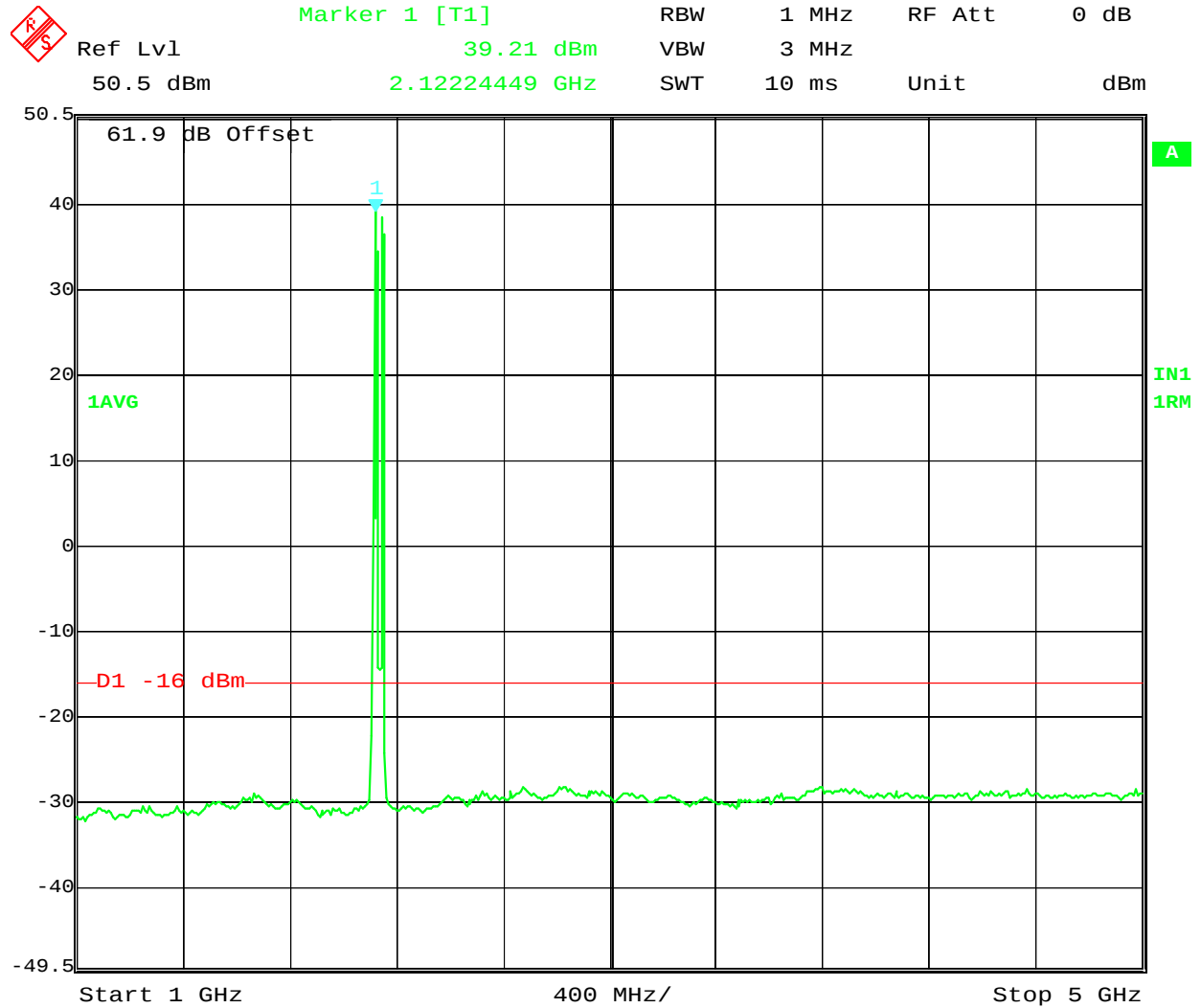
**Block: B+F
10+10 MHz Bandwidth (2120-2130 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
QPSK Modulation**



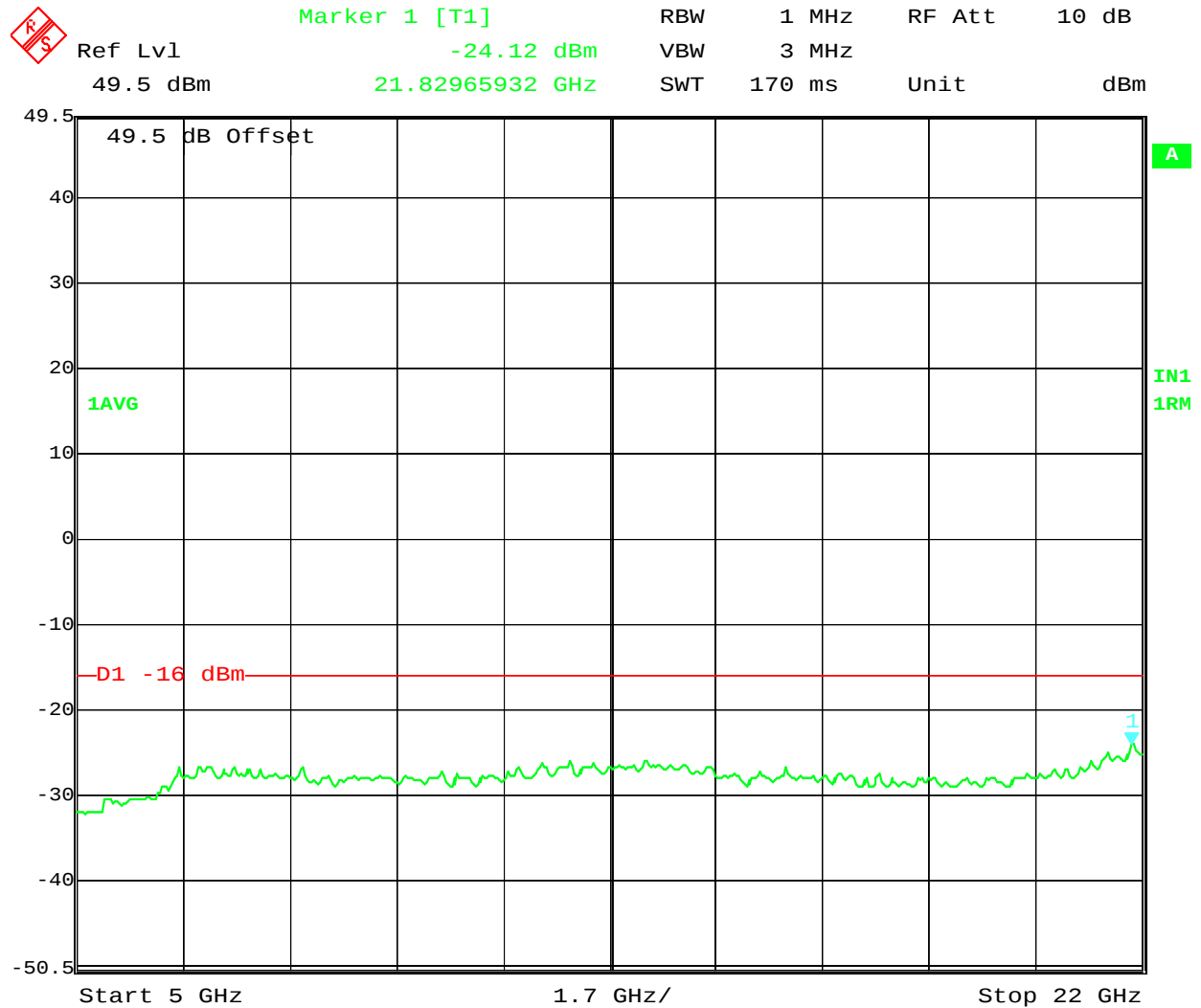
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 08:31:22



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 08:30:40



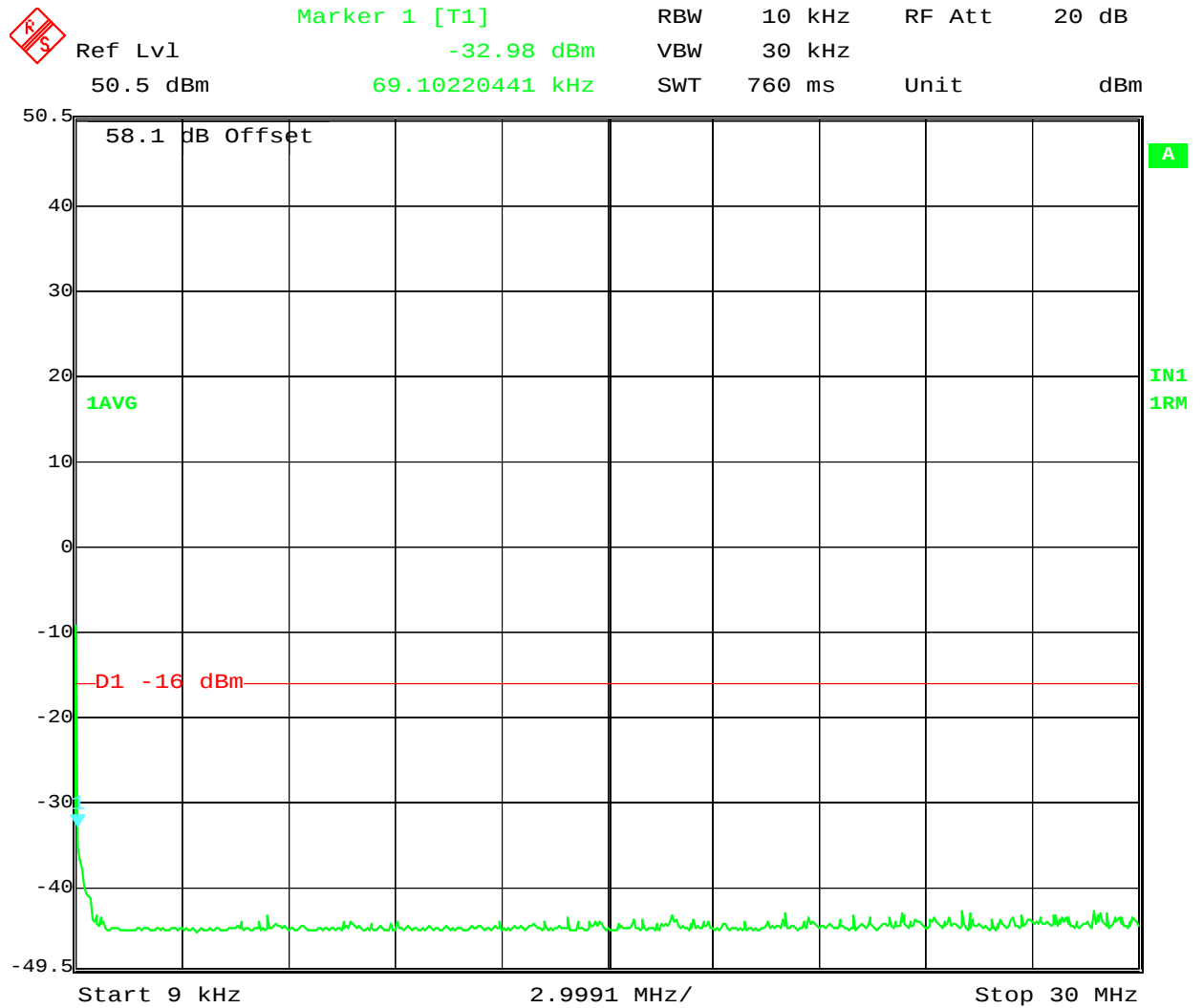
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 08:32:37



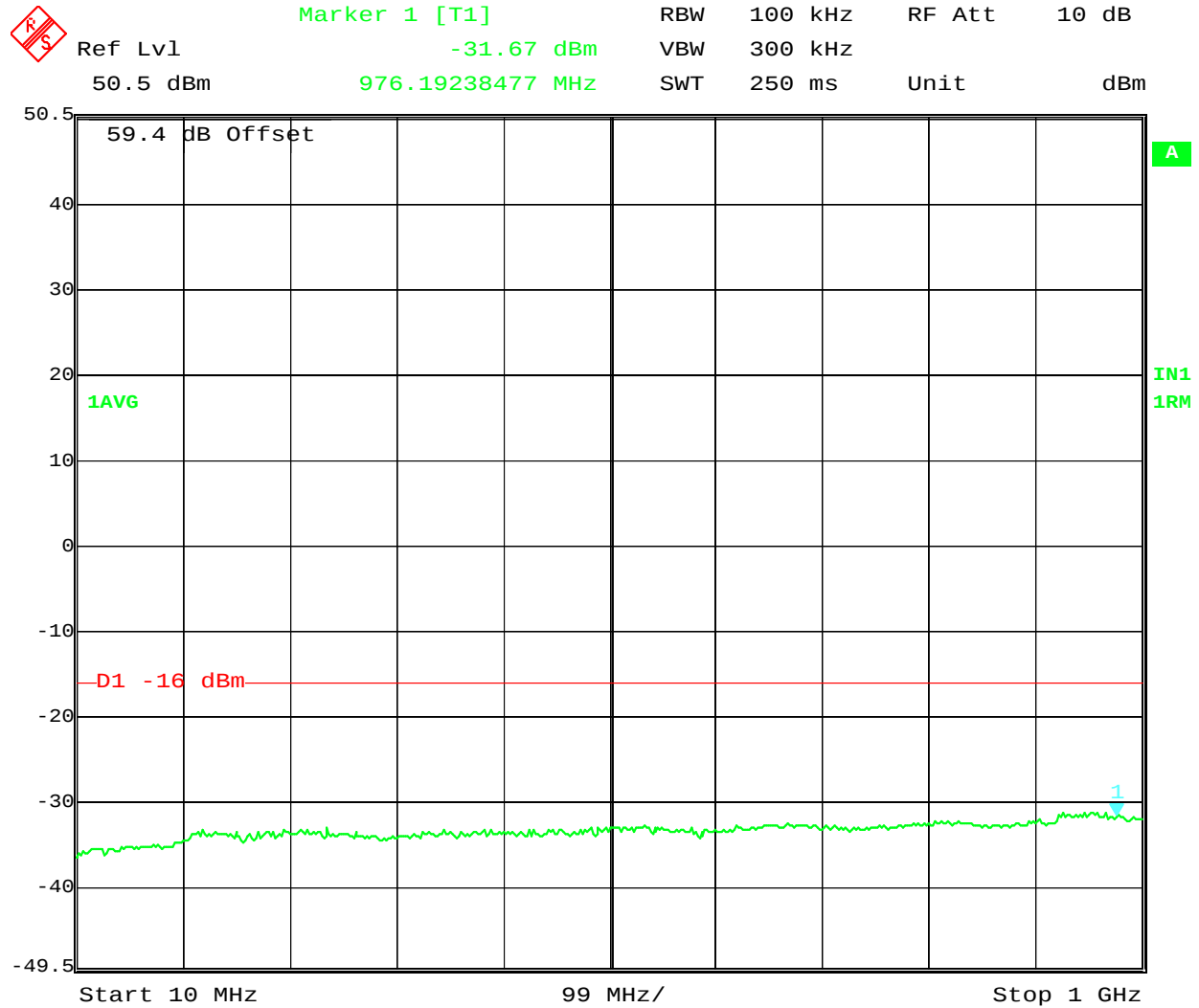
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 08:33:41

**Transmit Port
Antenna Conducted Spurious Emissions**

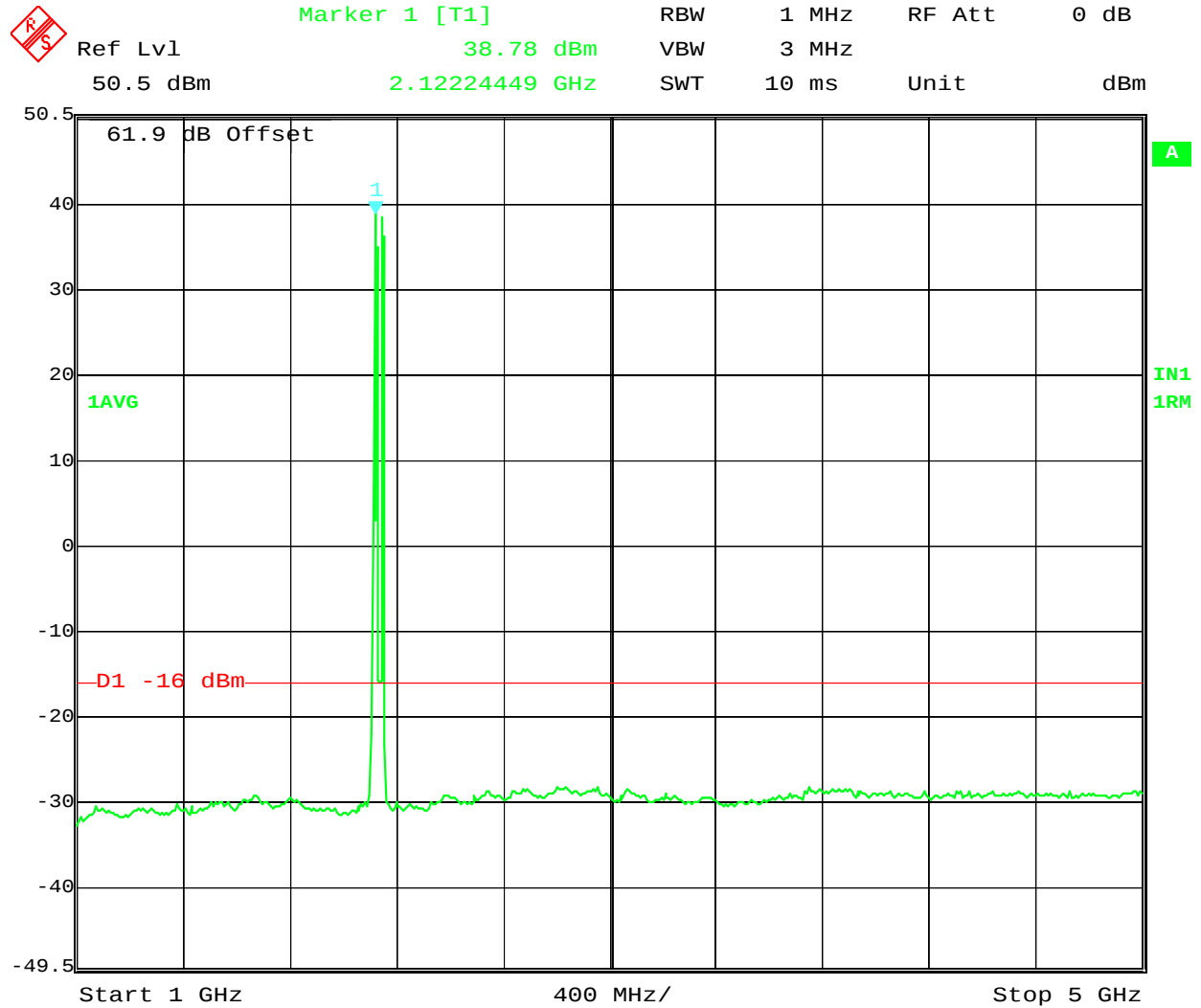
**Block: B+F
10+10 MHz Bandwidth (2120-2130 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
16QAM Modulation**



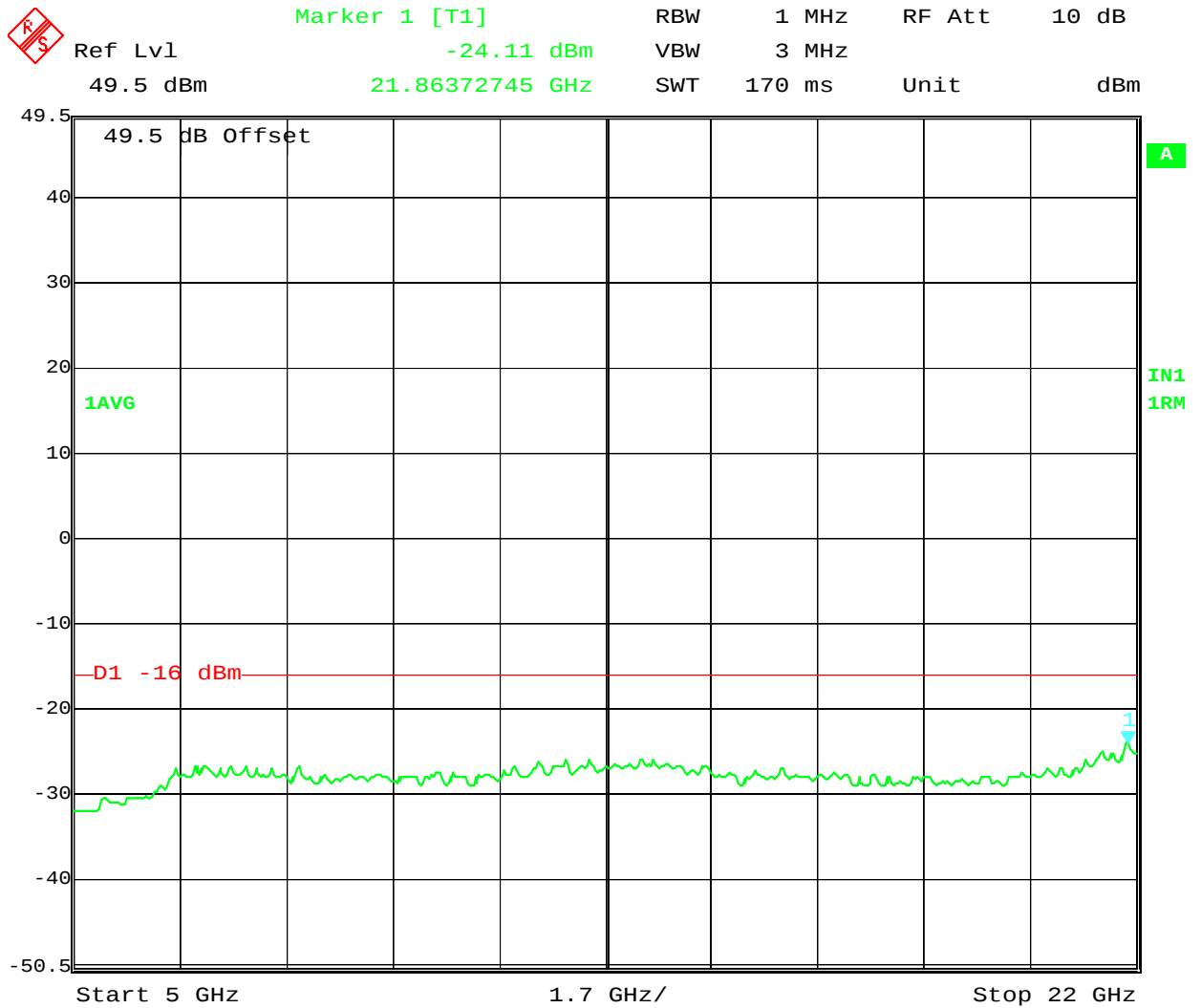
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 09:55:56



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 09:56:37



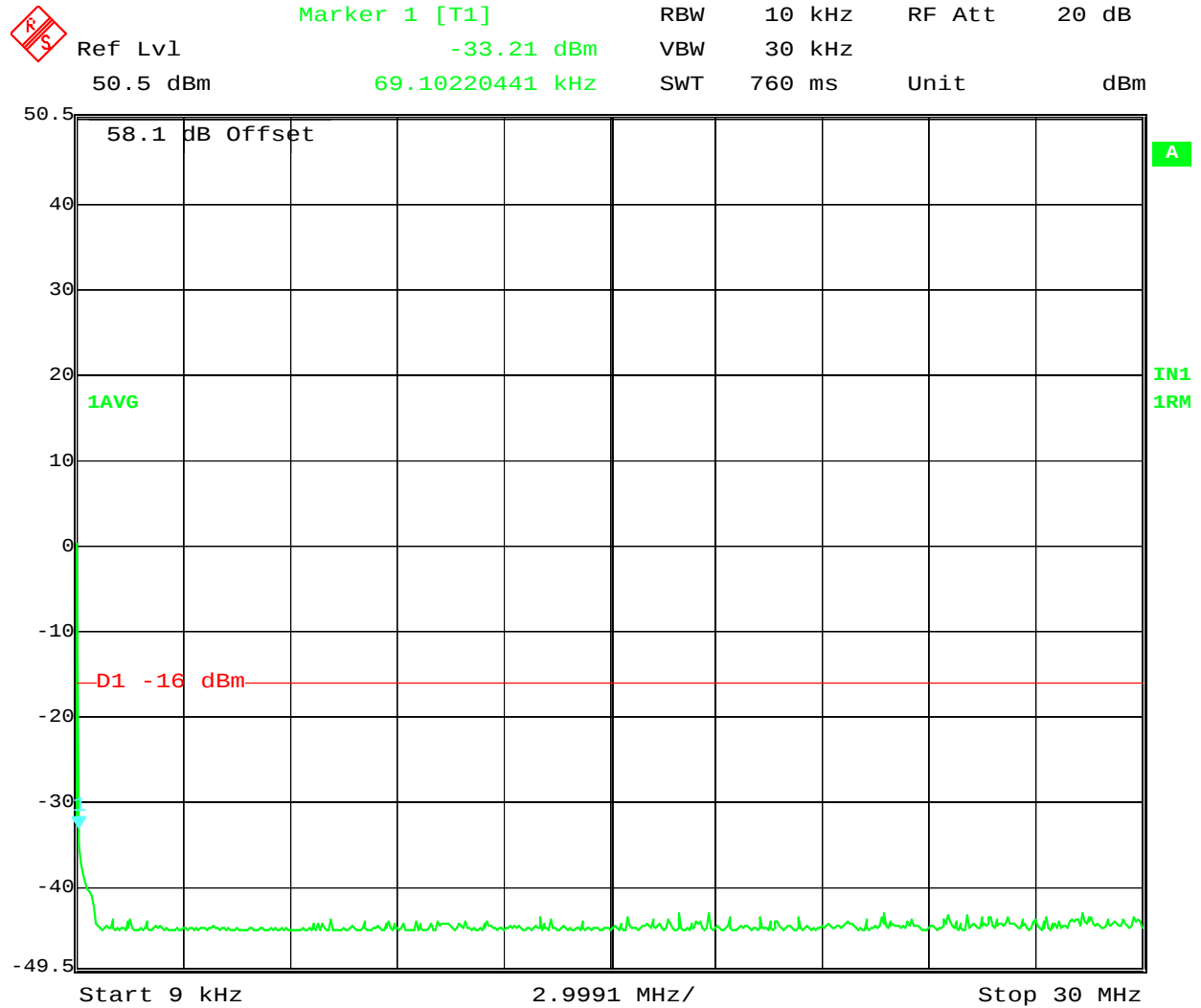
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 21.AUG.2013 10:01:12



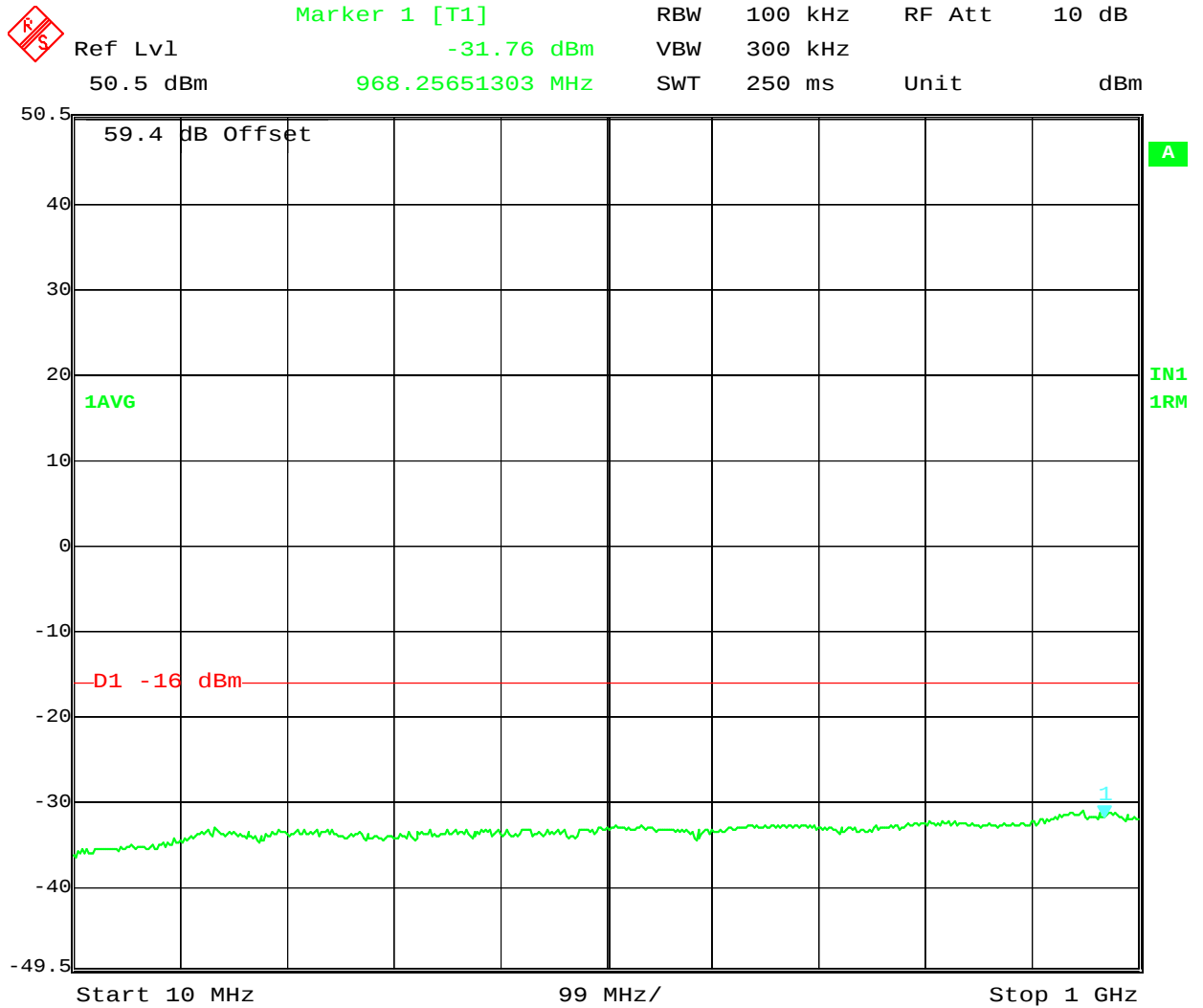
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 HPF; 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 10:26:50

**Transmit Port
Antenna Conducted Spurious Emissions**

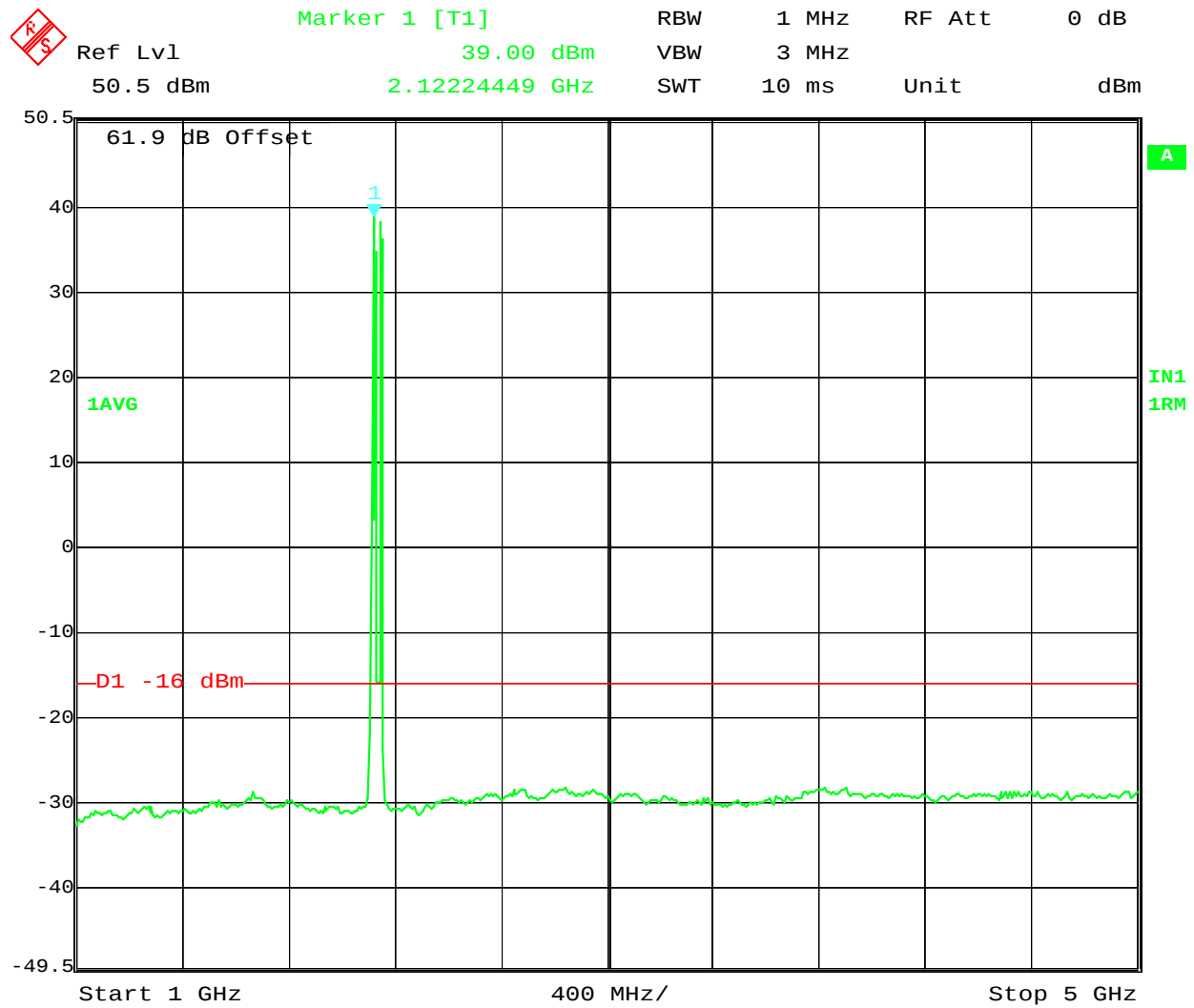
**Block: B+F
10+10 MHz Bandwidth (2120-2130 MHz + 2145-2155 MHz)
2x120 watts (MIMO)
64QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 10:42:11



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 10:41:33



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 10:47:35



Ref Lvl

Marker 1 [T1]

-24.05 dBm

RBW

1 MHz

RF Att

10 dB

VBW

3 MHz

SWT

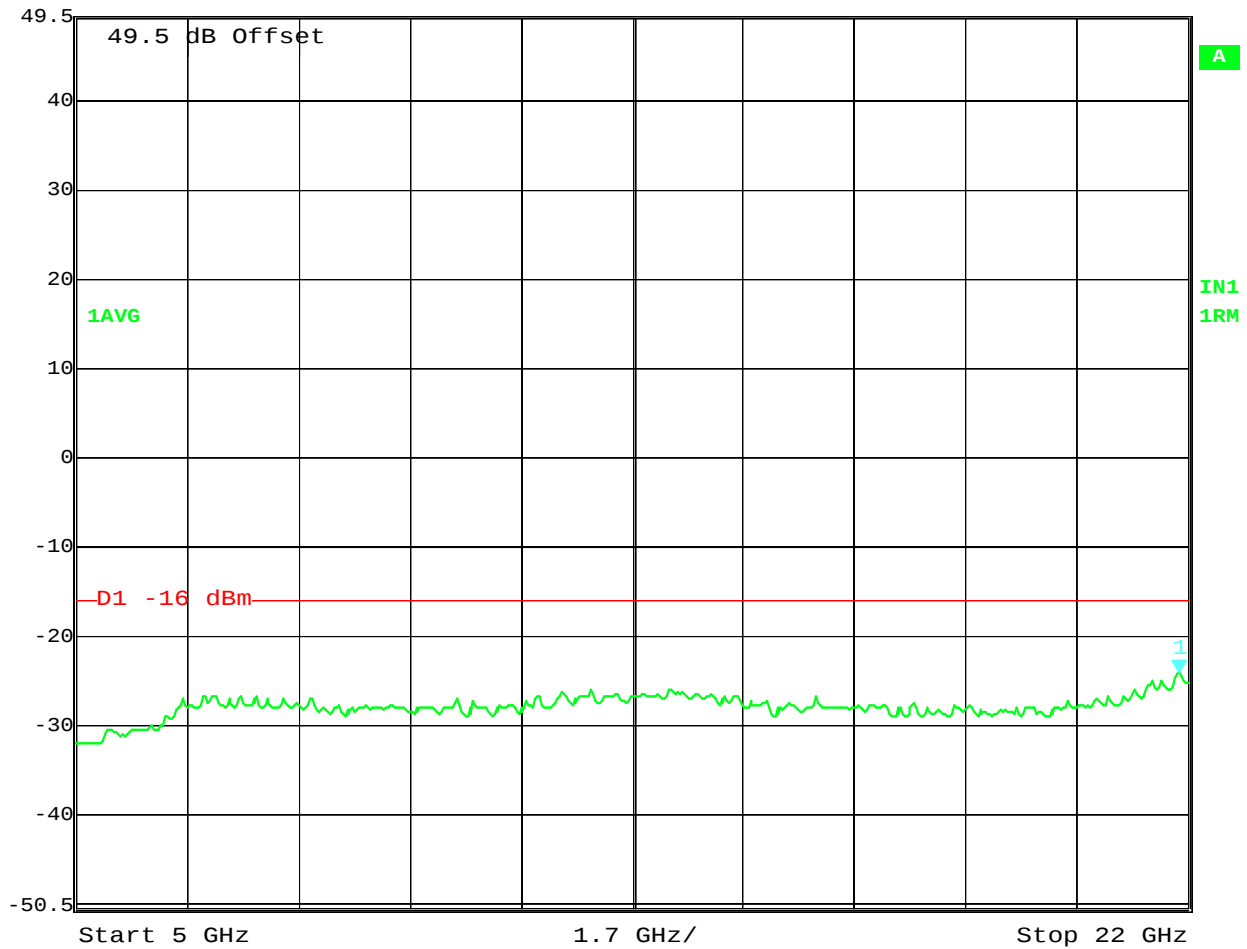
170 ms

Unit

dBm

49.5 dBm

21.86372745 GHz



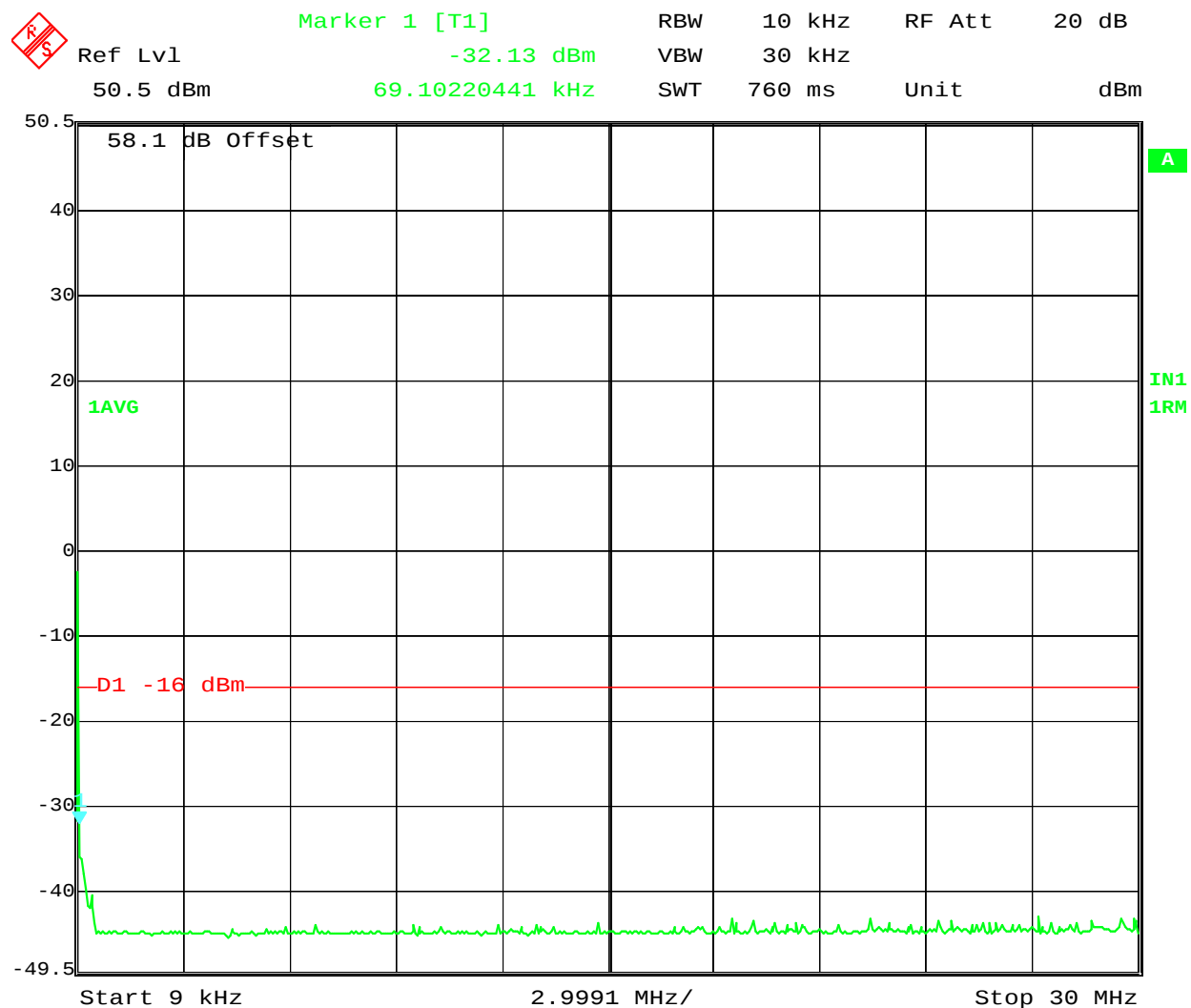
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK B&F; 2125MHz & 2150MHz; 10MHz BW; PWR:120W
HPF; 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 21.AUG.2013 10:40:00

**Transmit Port
Antenna Conducted Spurious Emissions**

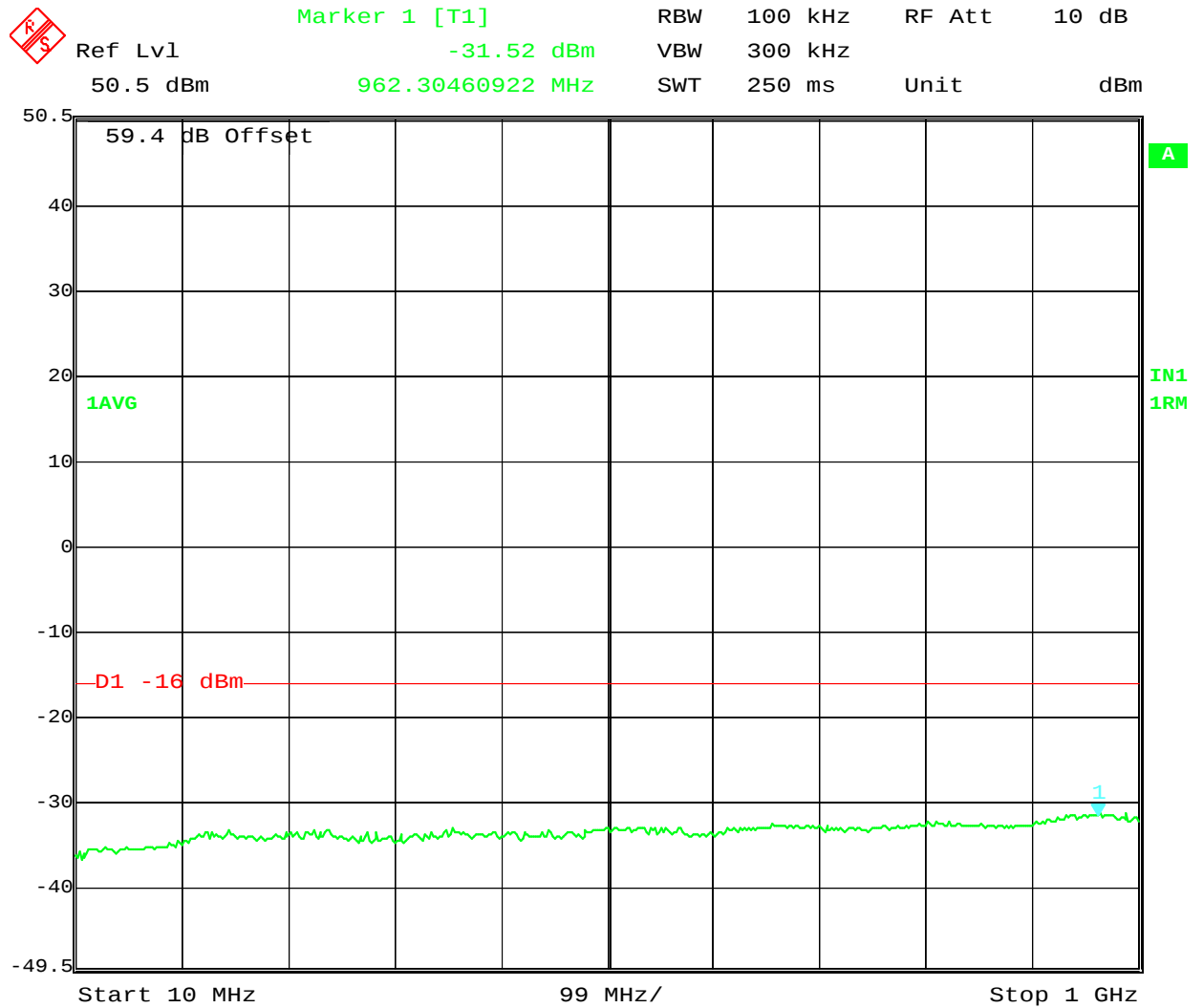
**Block: A+D
10+5 MHz Bandwidth (2110-2120 MHz + 2135-2140
MHz)**

Alcatel-Lucent - Proprietary
Use Pursuant to Company Instructions.

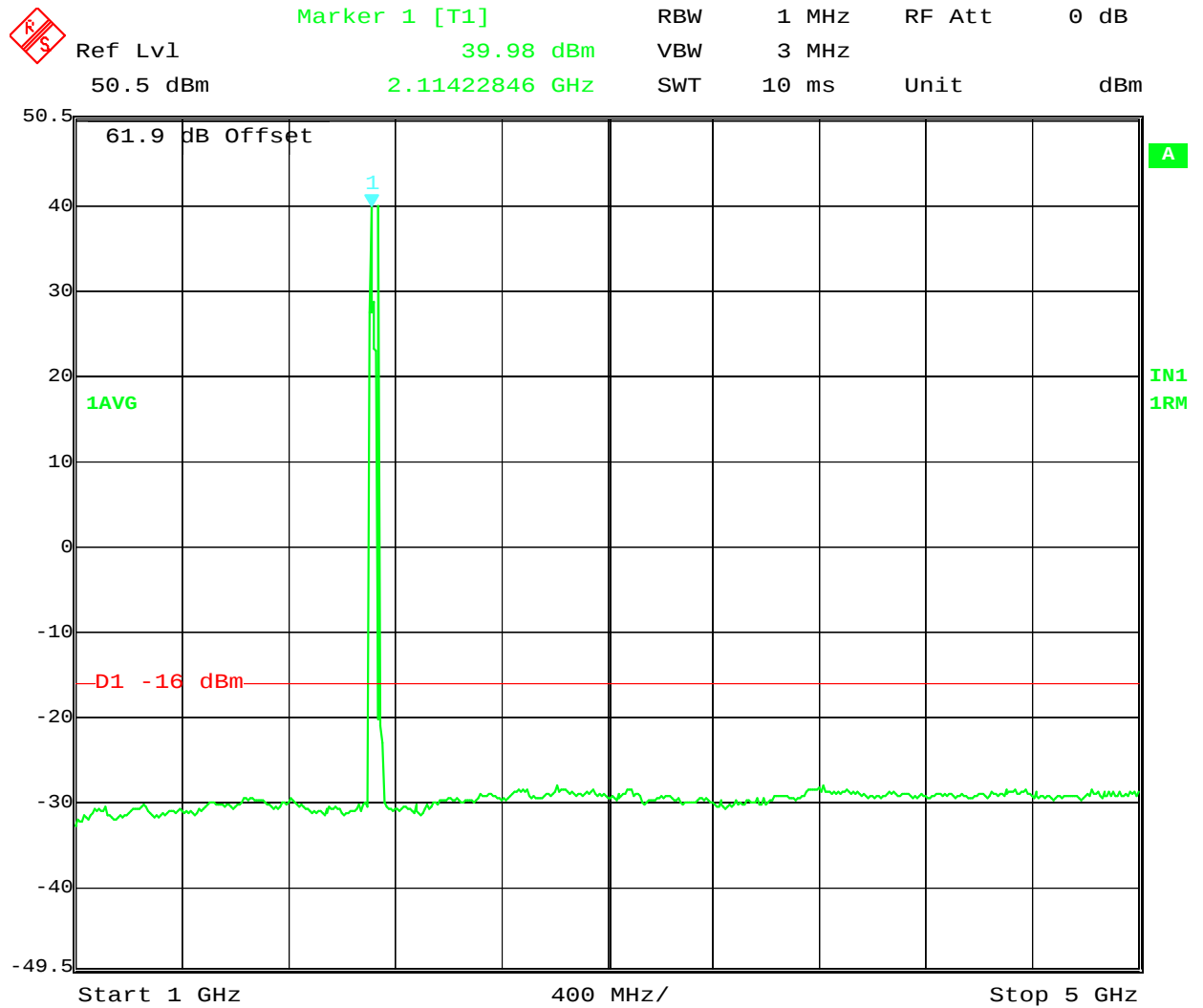
2x120 watts (MIMO) QPSK Modulation



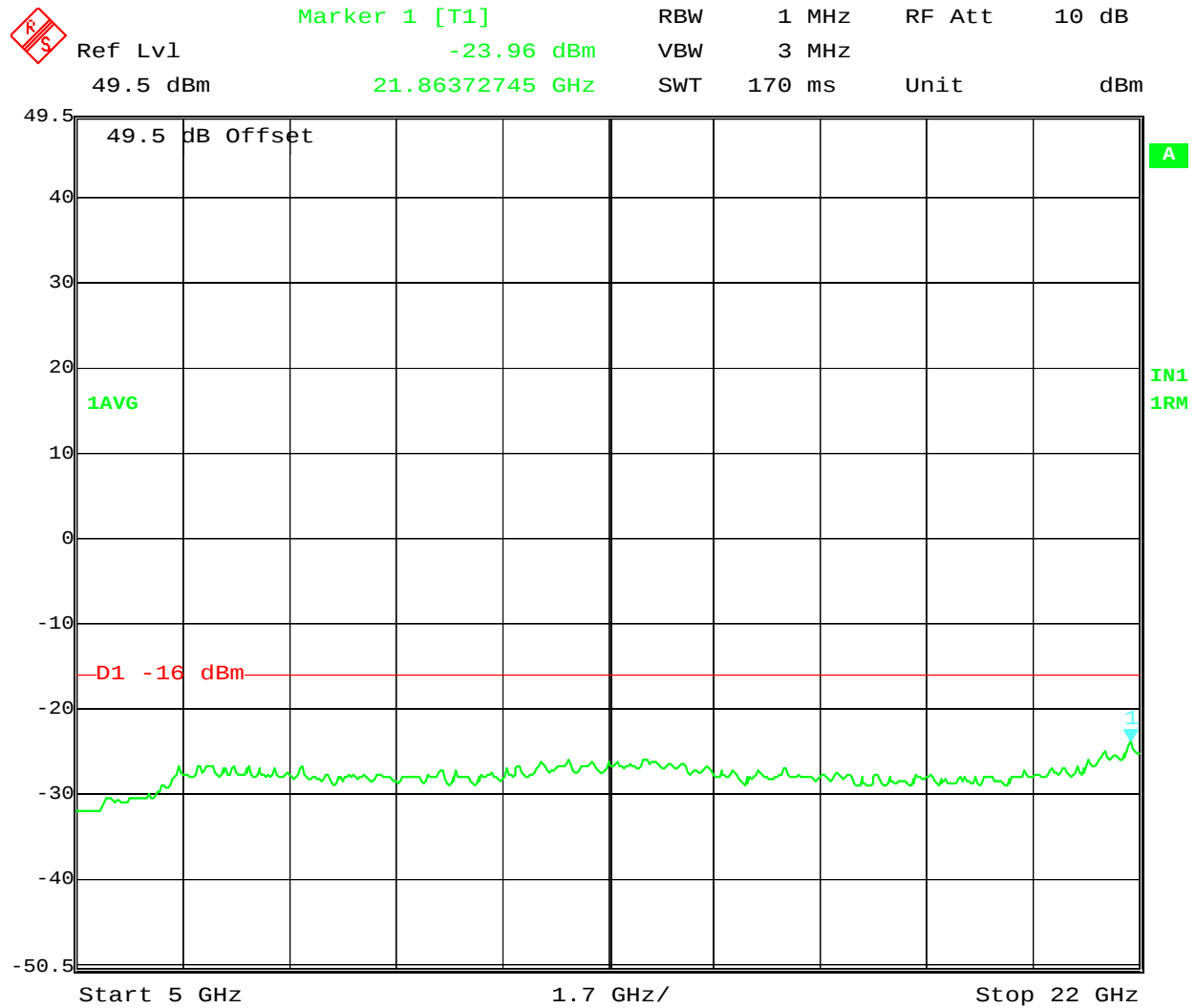
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 5.SEP.2013 07:18:36



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 07:20:20



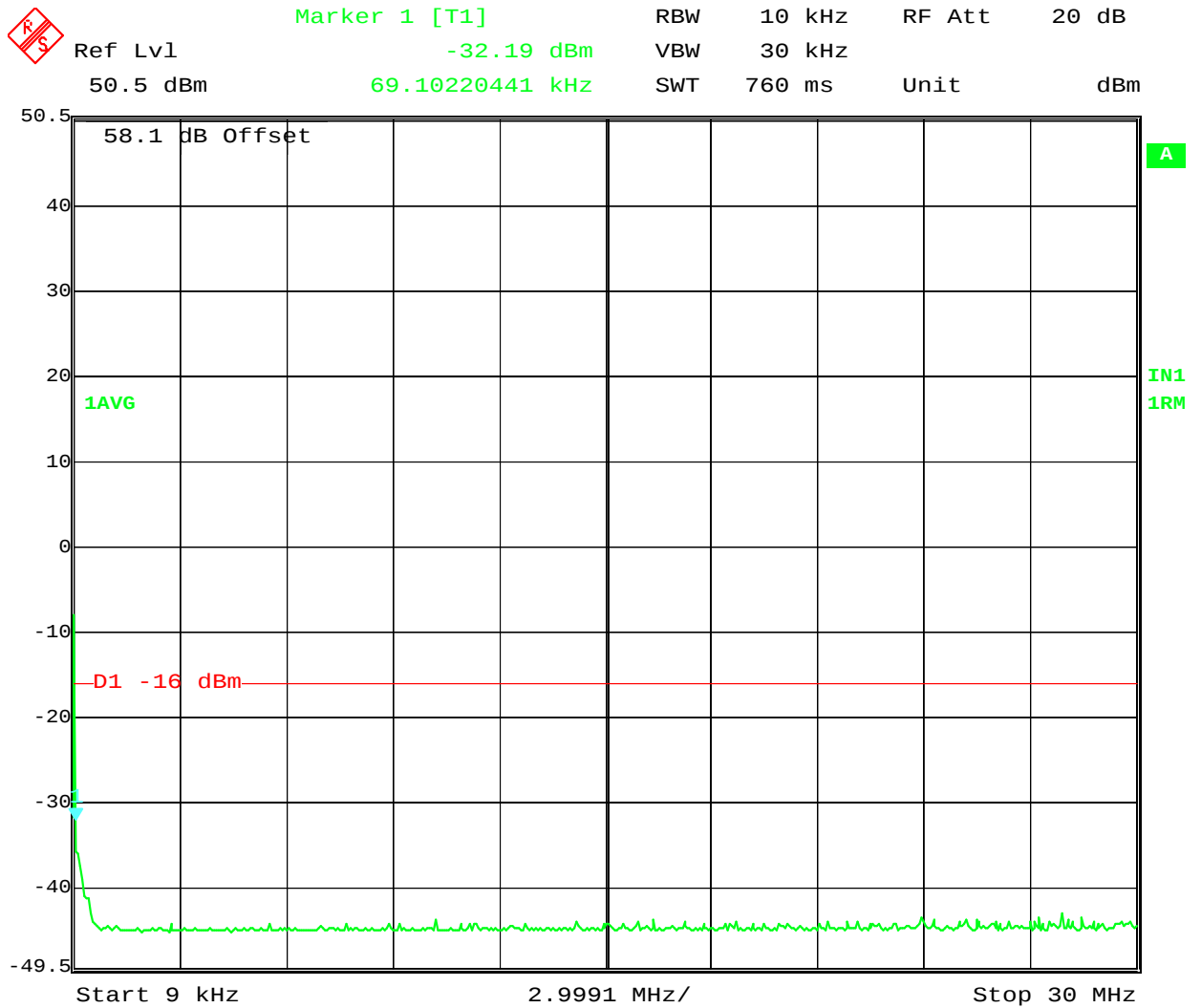
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 07:20:59



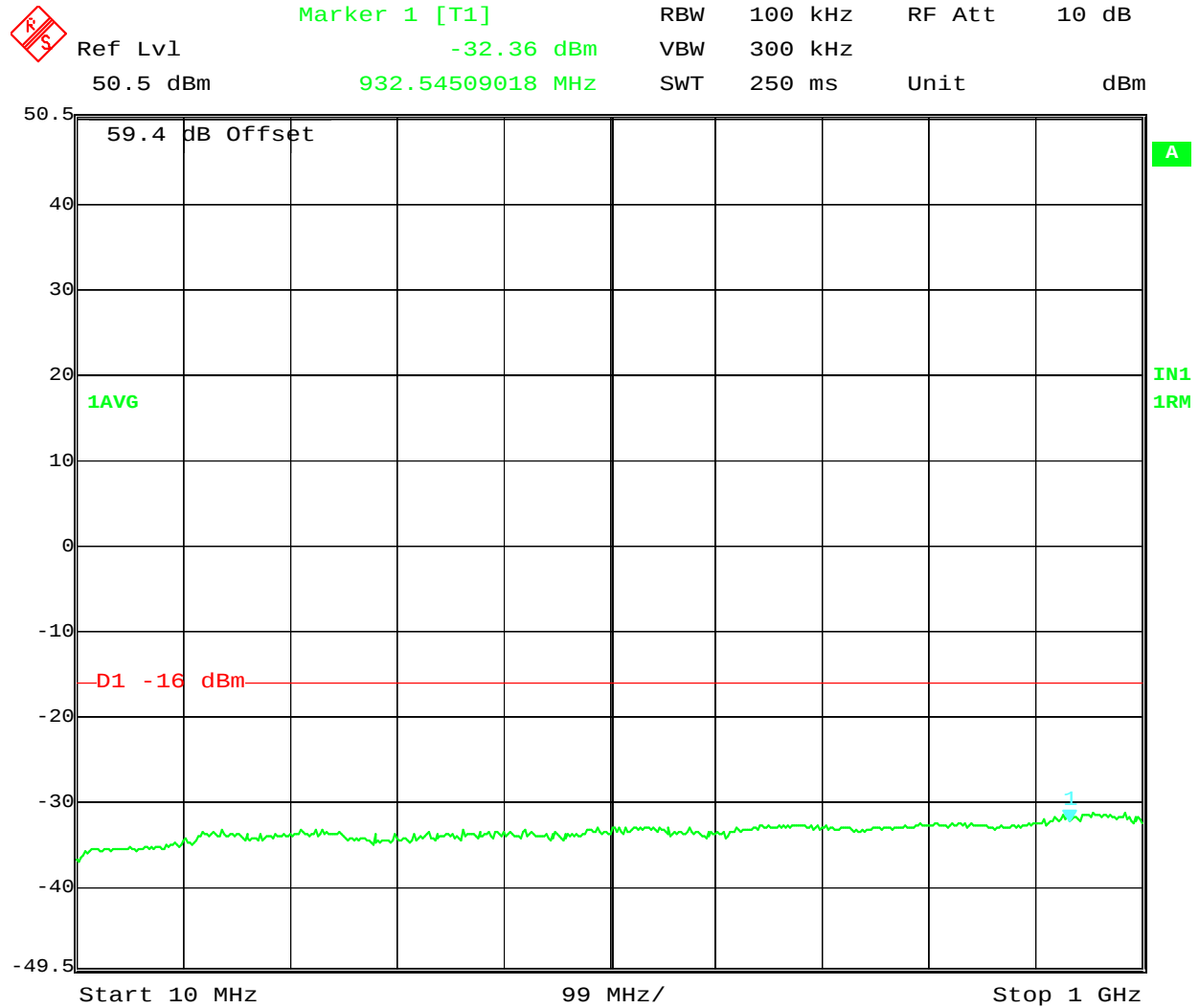
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5MHz; 10+5MHz BW; PWR:120W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 07:22:09

**Transmit Port
Antenna Conducted Spurious Emissions**

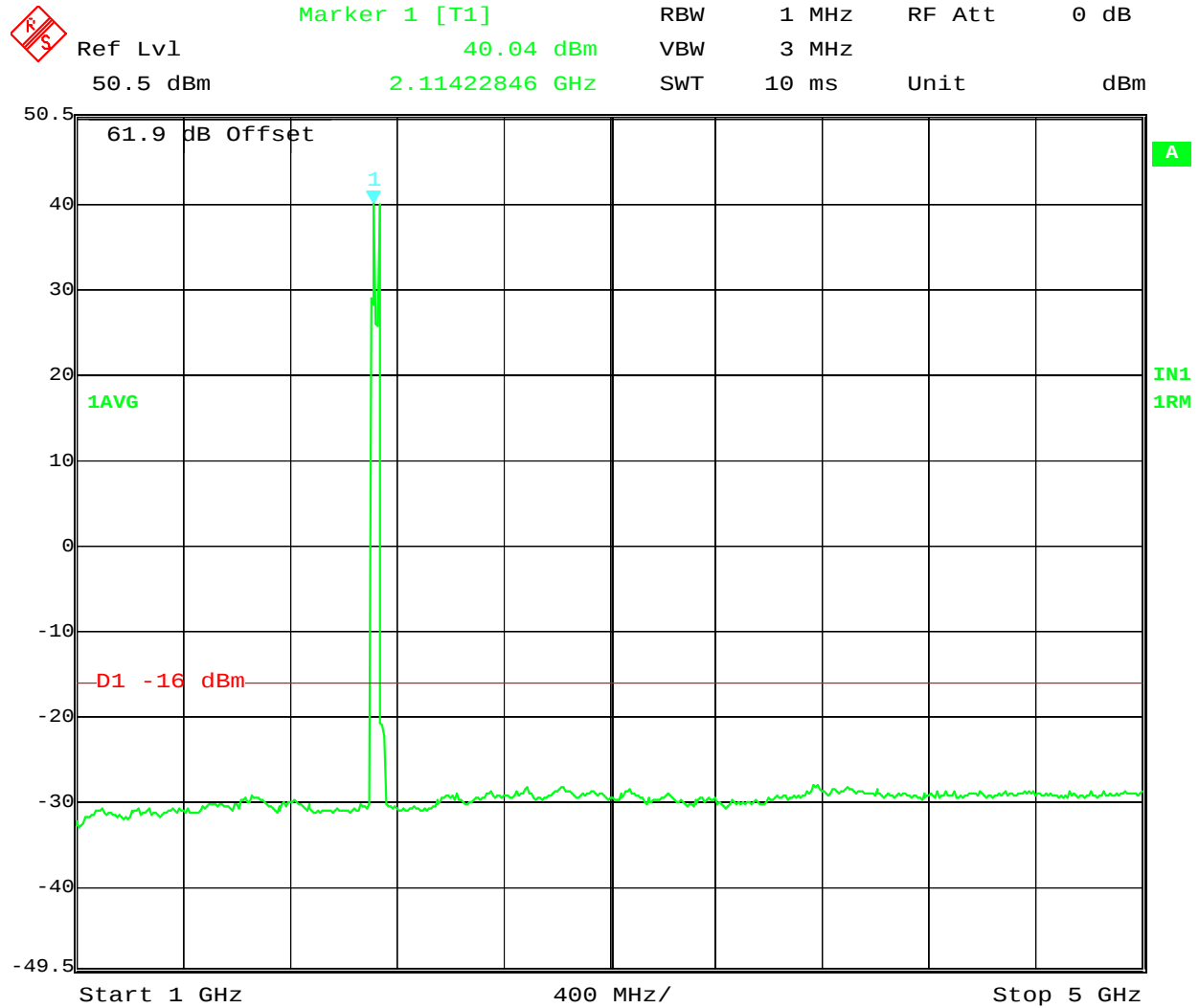
**Block: A+D
10+5 MHz Bandwidth (2110-2120 MHz + 2135-2140
MHz)
2x120 watts (MIMO)
16QAM Modulation**



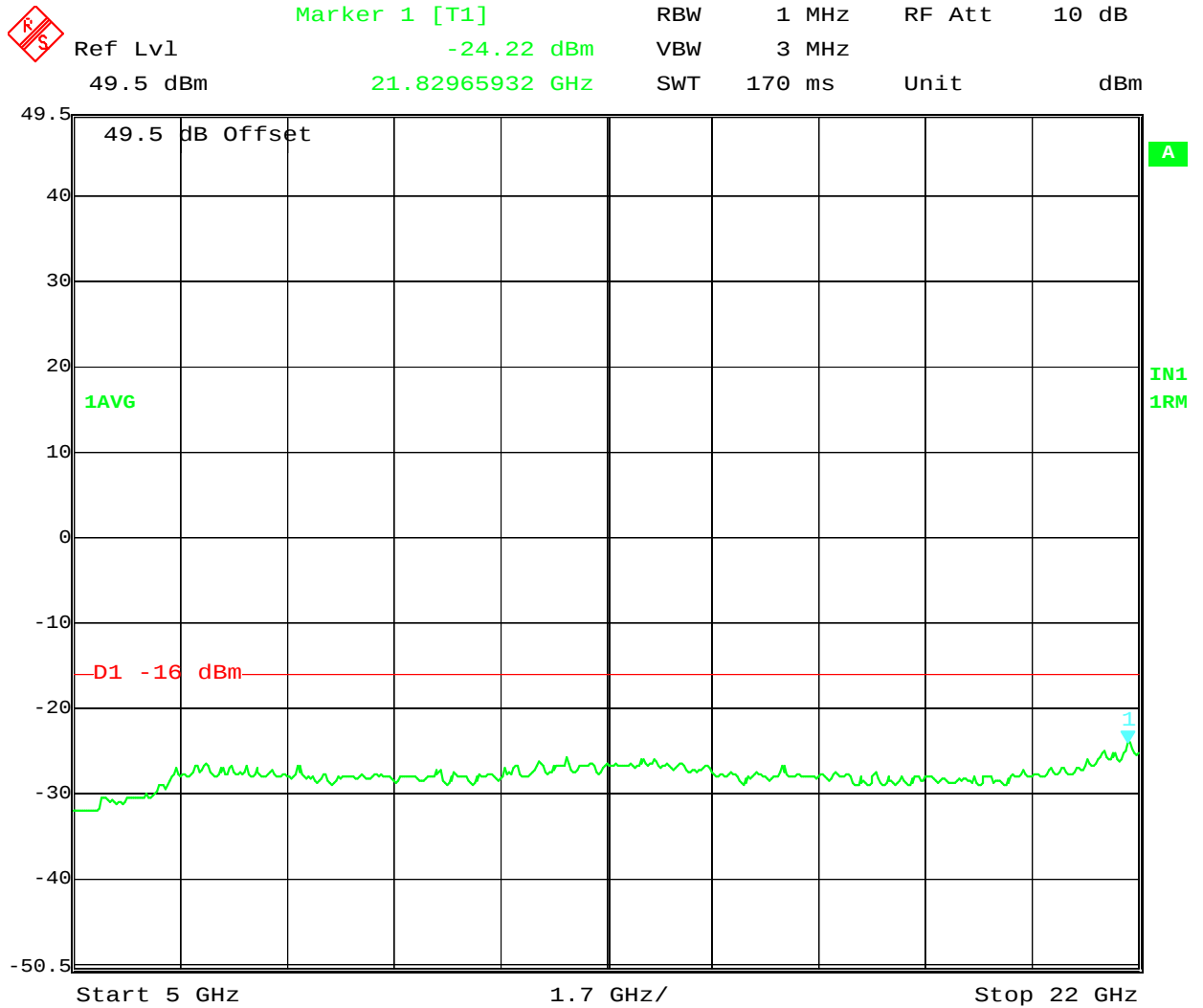
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 06:53:10



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 06:54:13



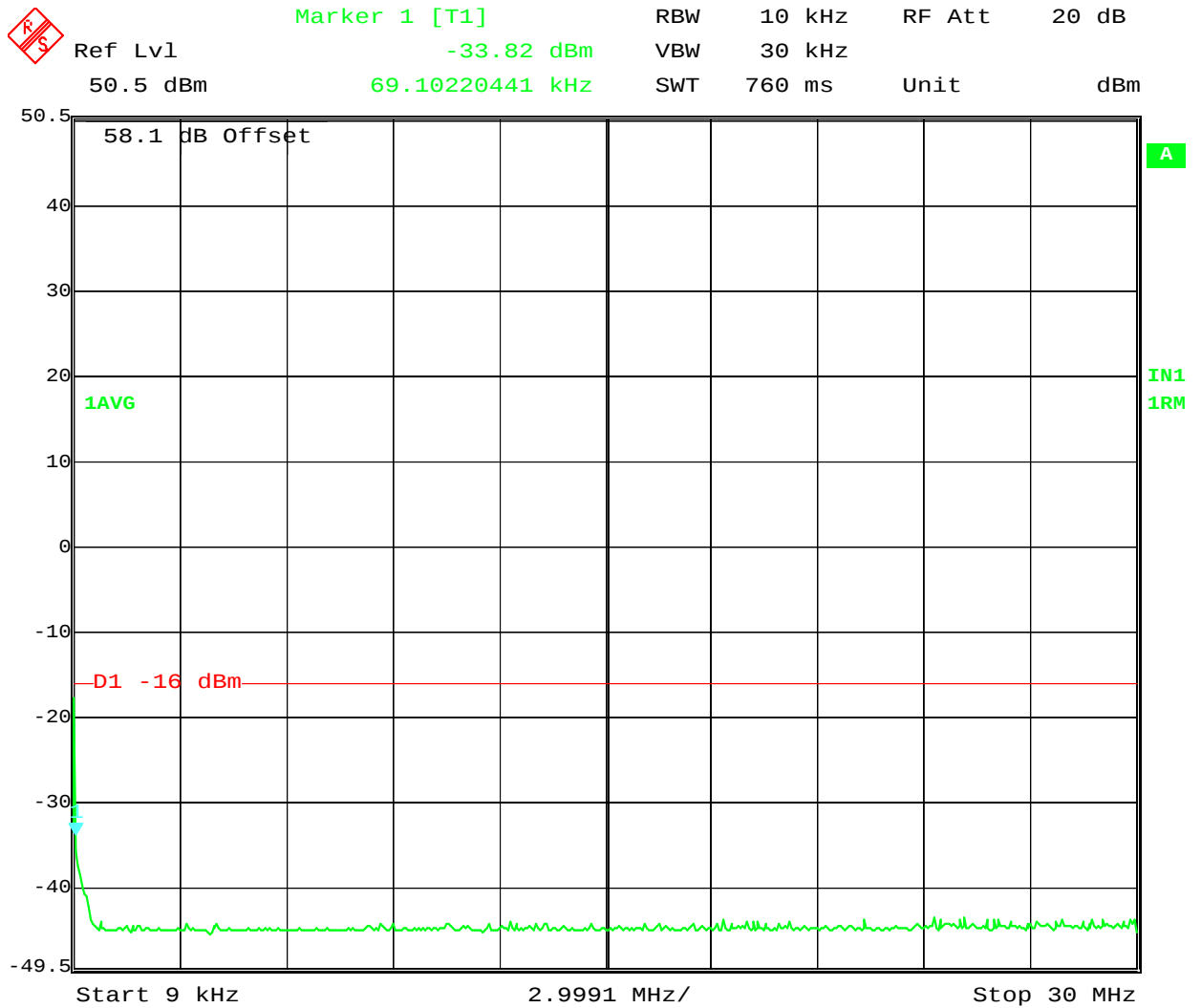
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 06:54:45



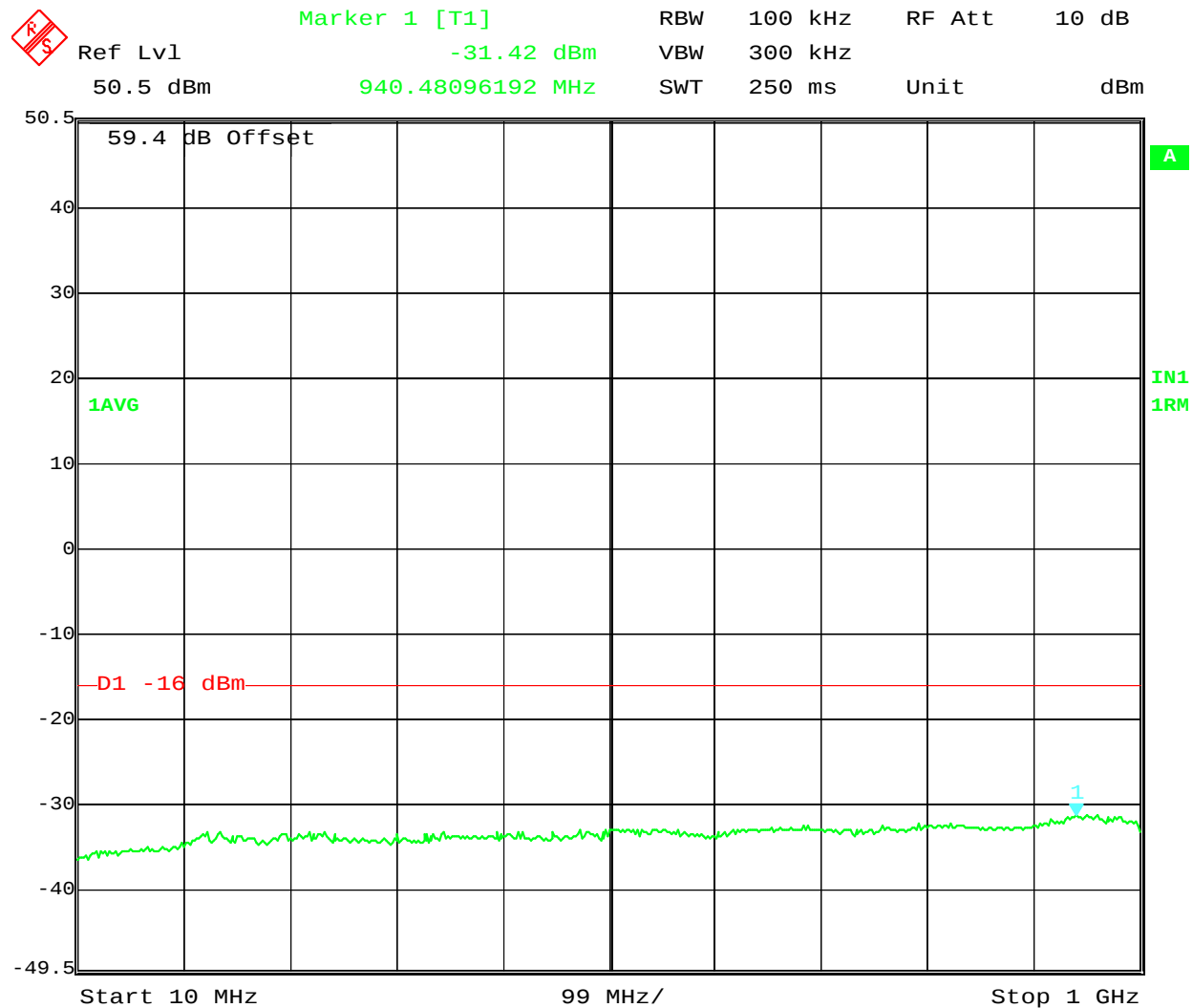
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5MHz; 10+5MHz BW; PWR:120W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 06:55:17

**Transmit Port
Antenna Conducted Spurious Emissions**

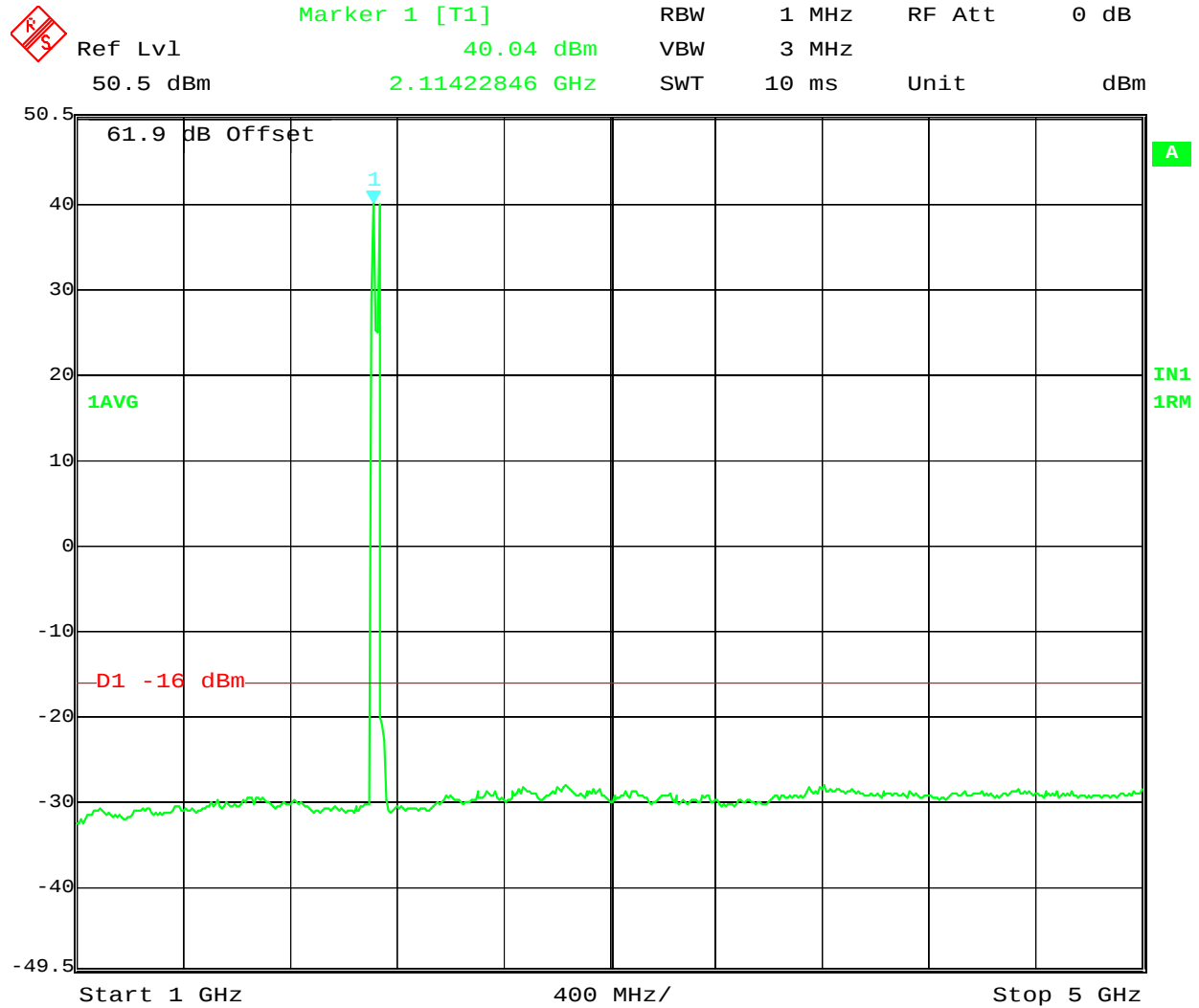
**Block: A+D
10+5 MHz Bandwidth (2110-2120 MHz + 2135-2140
MHz)
2x120 watts (MIMO)
64QAM Modulation**



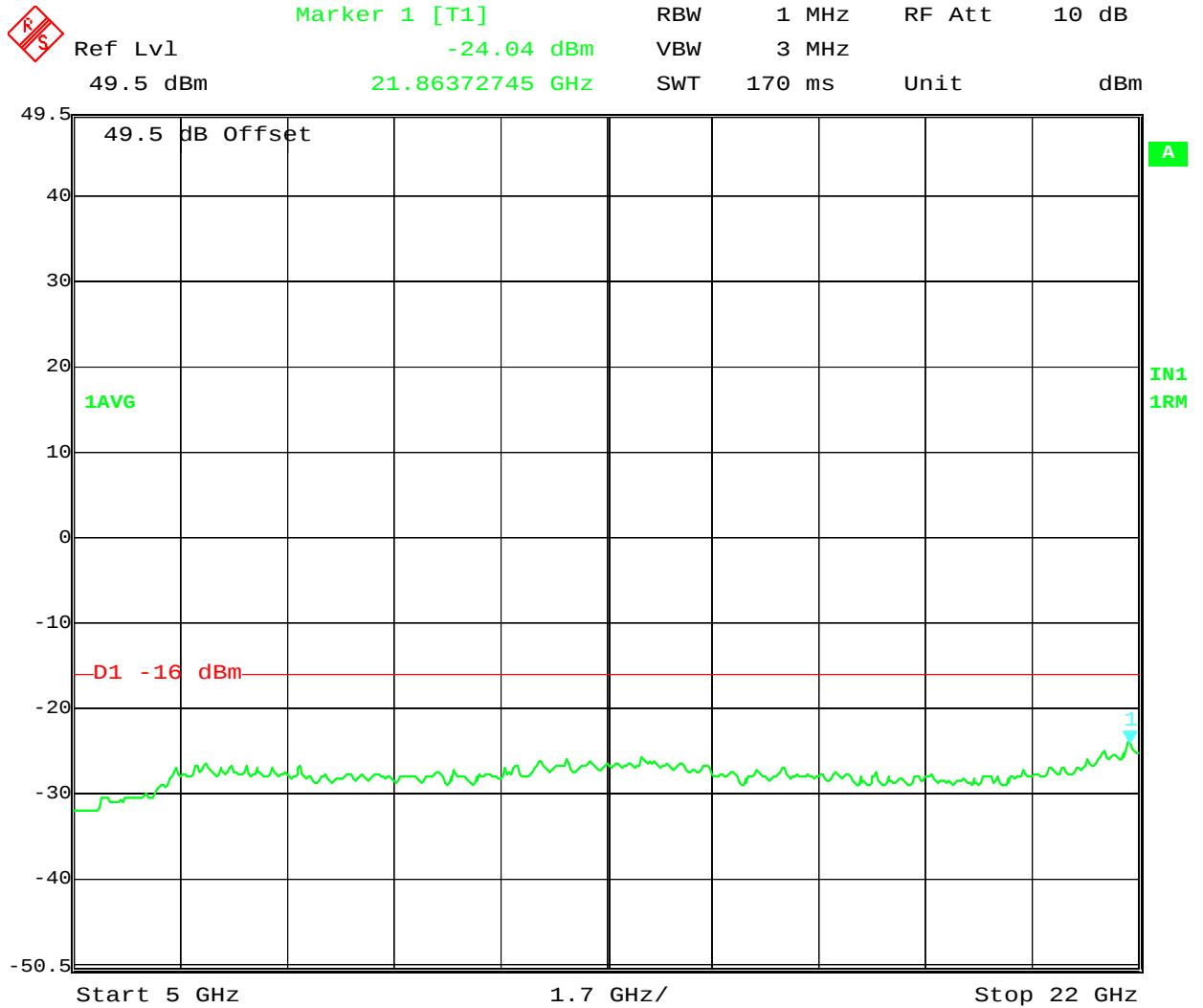
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 10:42:09



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 4.SEP.2013 10:44:33



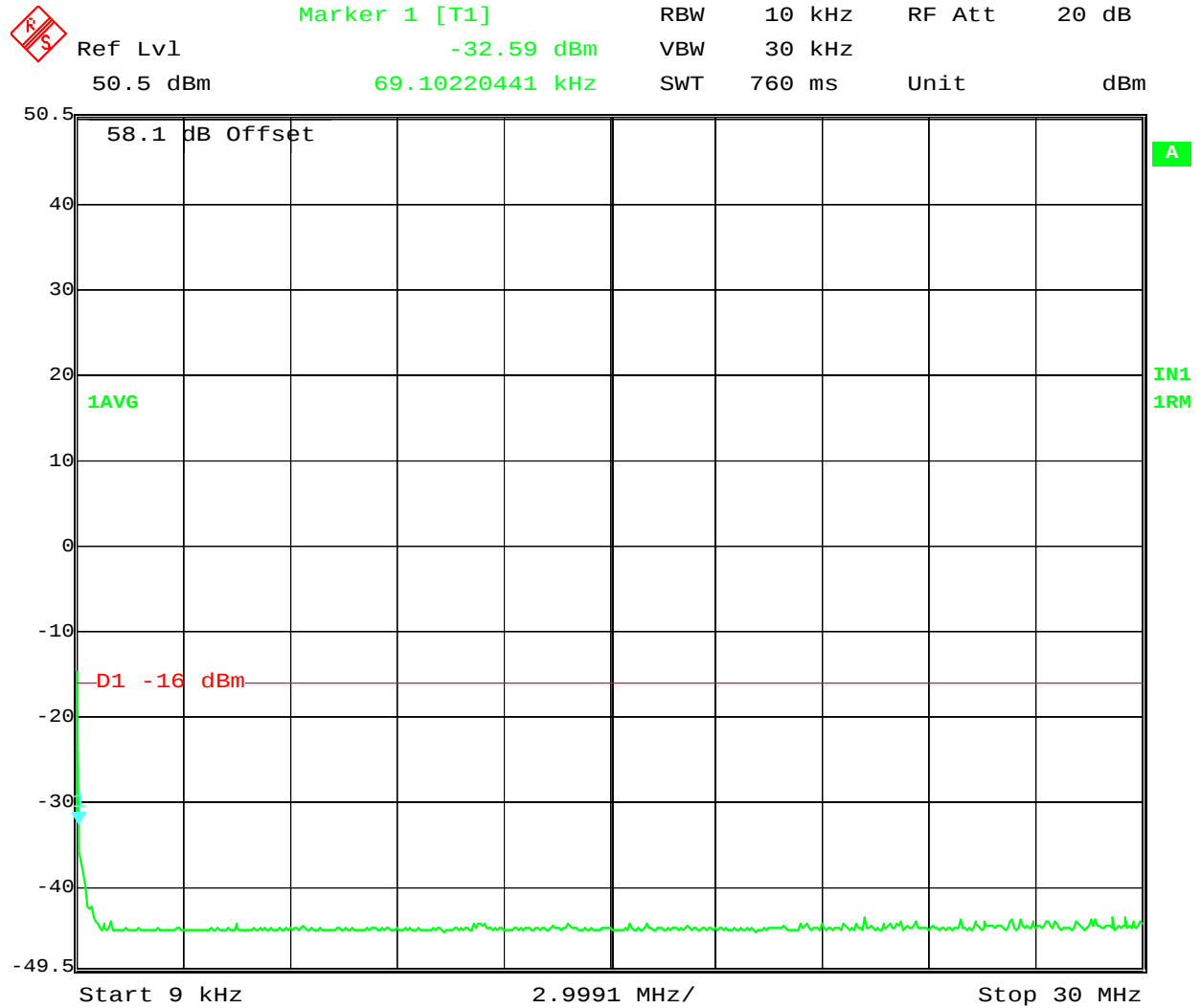
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5 MHz; 10+5MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 10:45:45



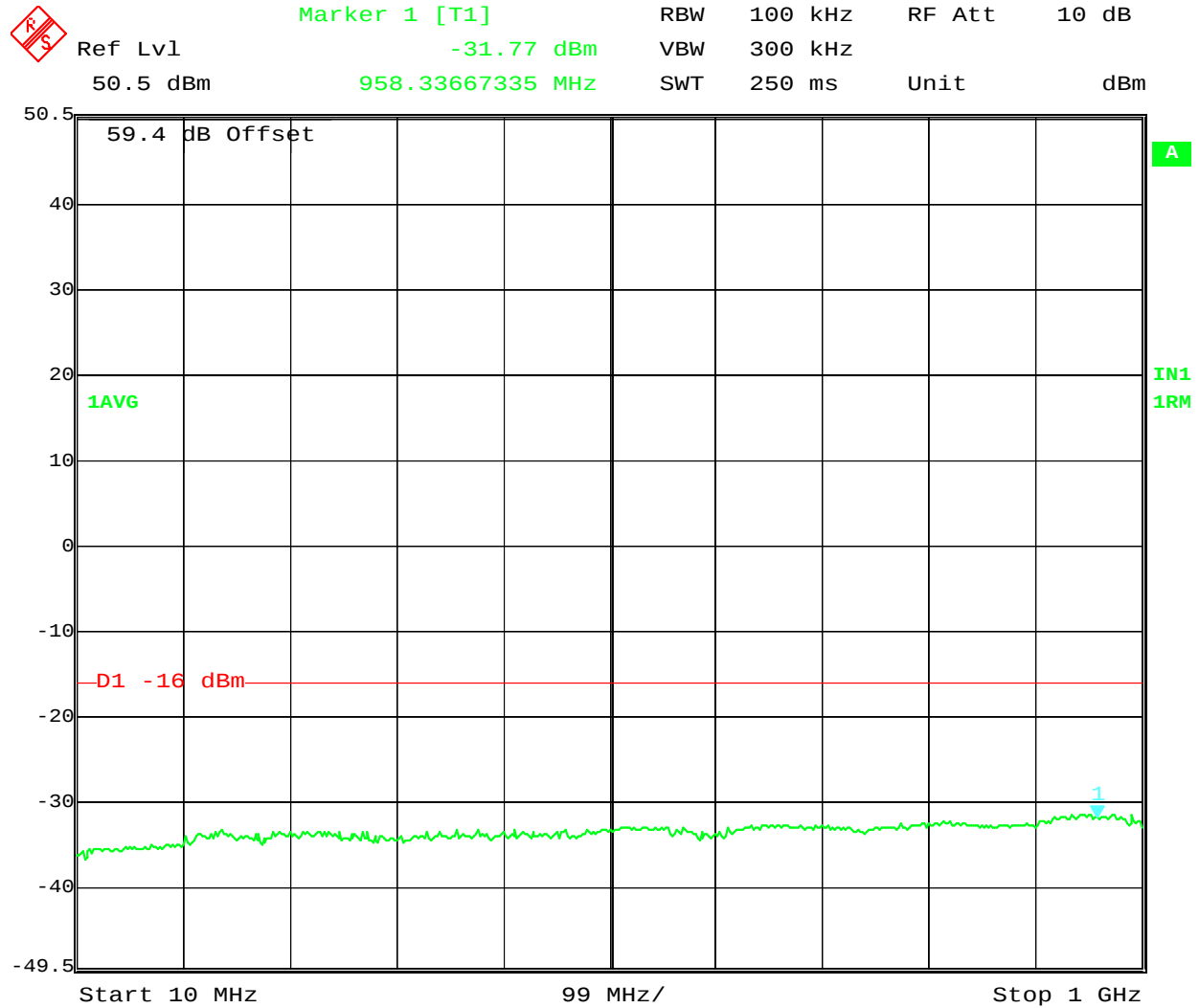
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK A+D; 2115+2137.5MHz; 10+5MHz BW; PWR:120W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 10:47:57

**Transmit Port
Antenna Conducted Spurious Emissions**

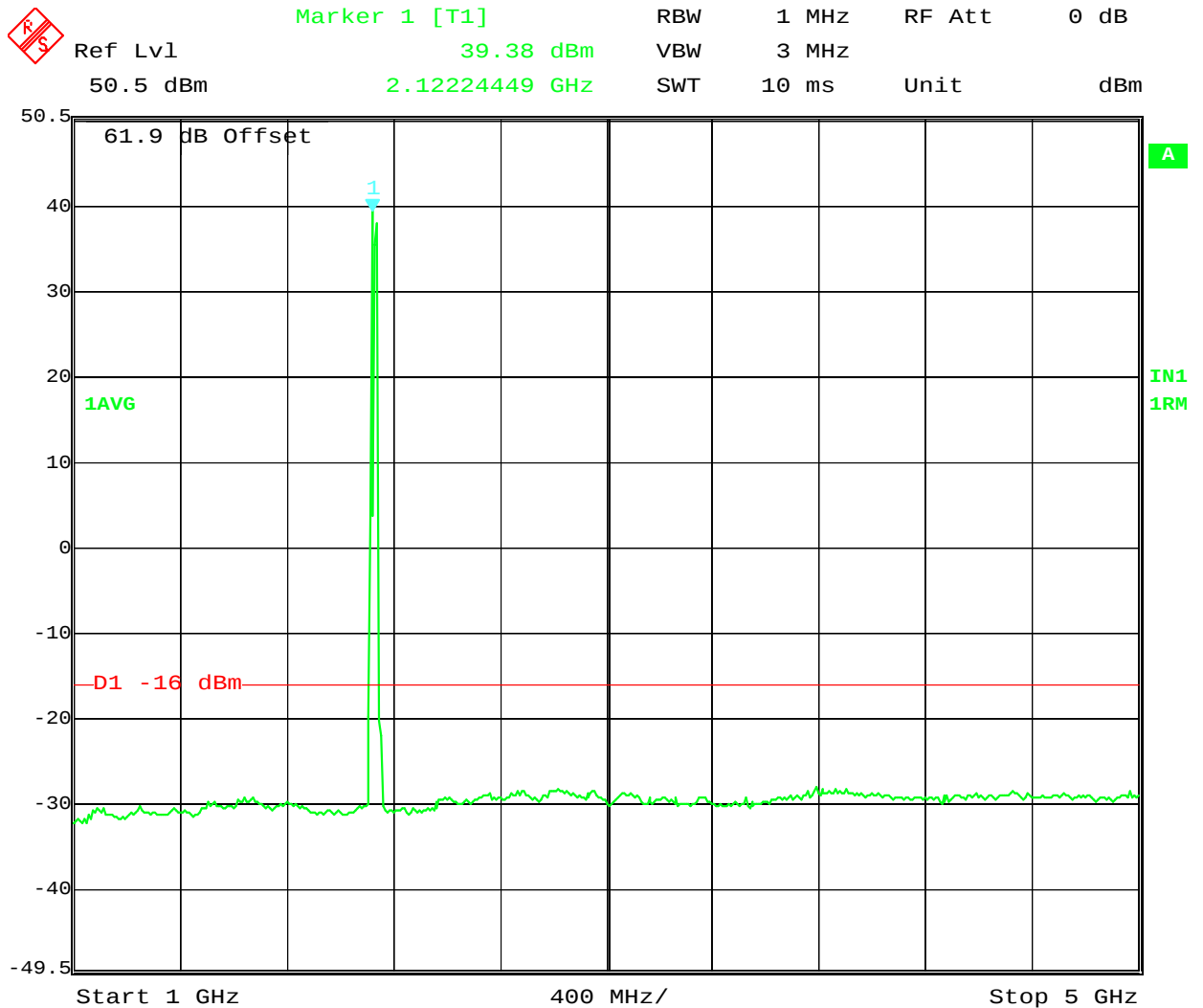
**Block: B+E
10+5 MHz Bandwidth (2120-2130 MHz + 2140-2145
MHz)
2x120 watts (MIMO)
QPSK Modulation**



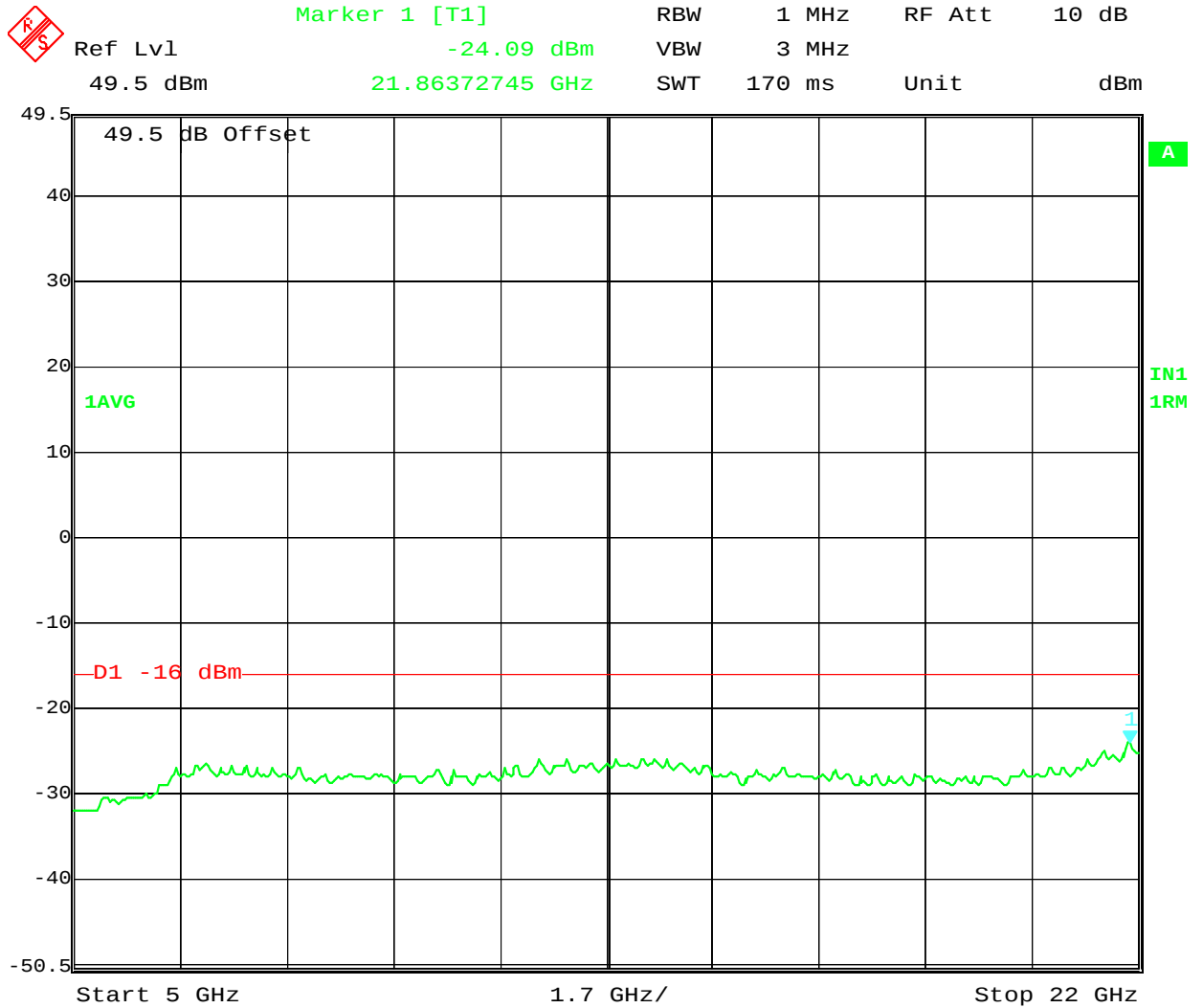
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 08:12:18



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 08:14:03



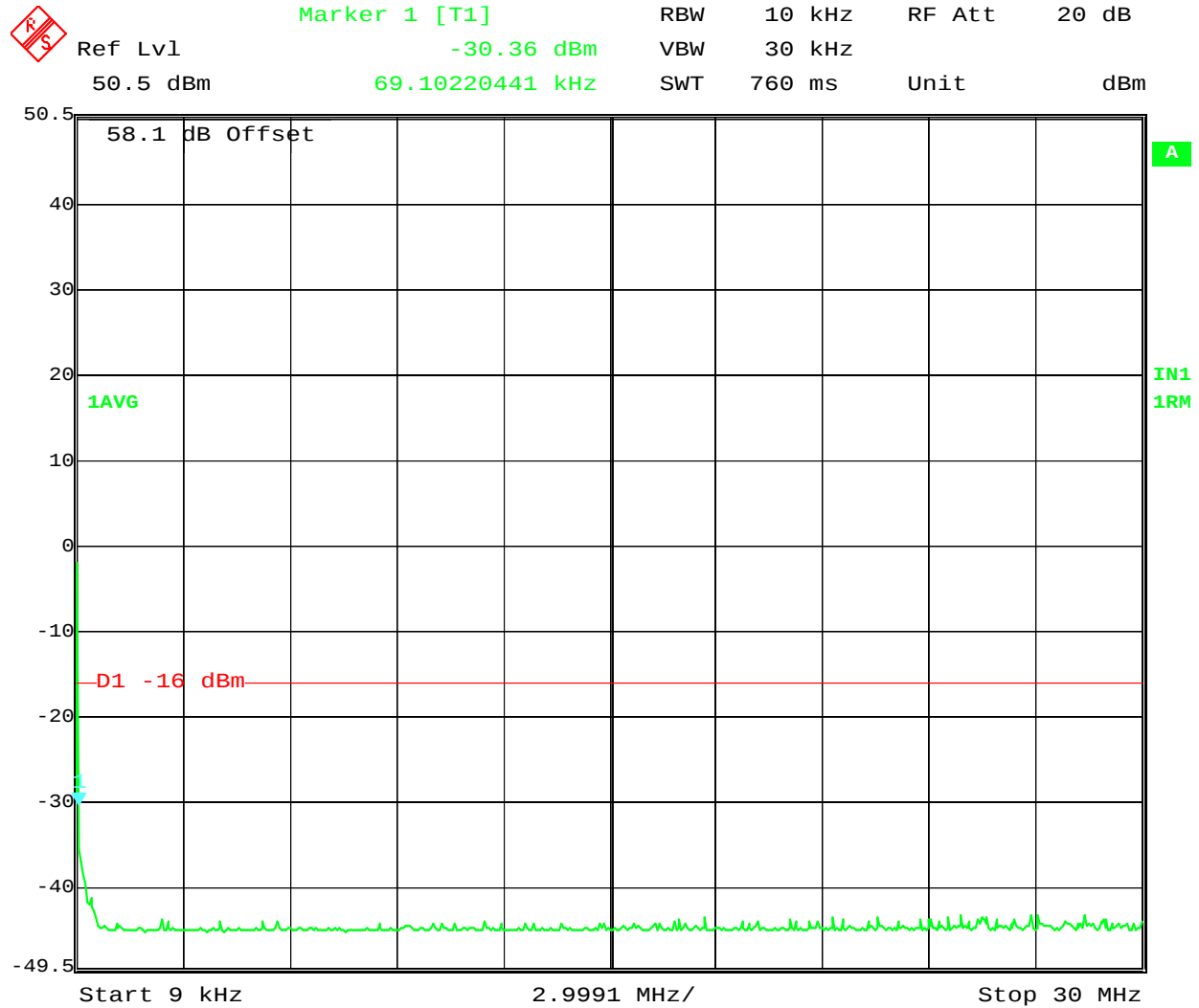
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 08:16:51



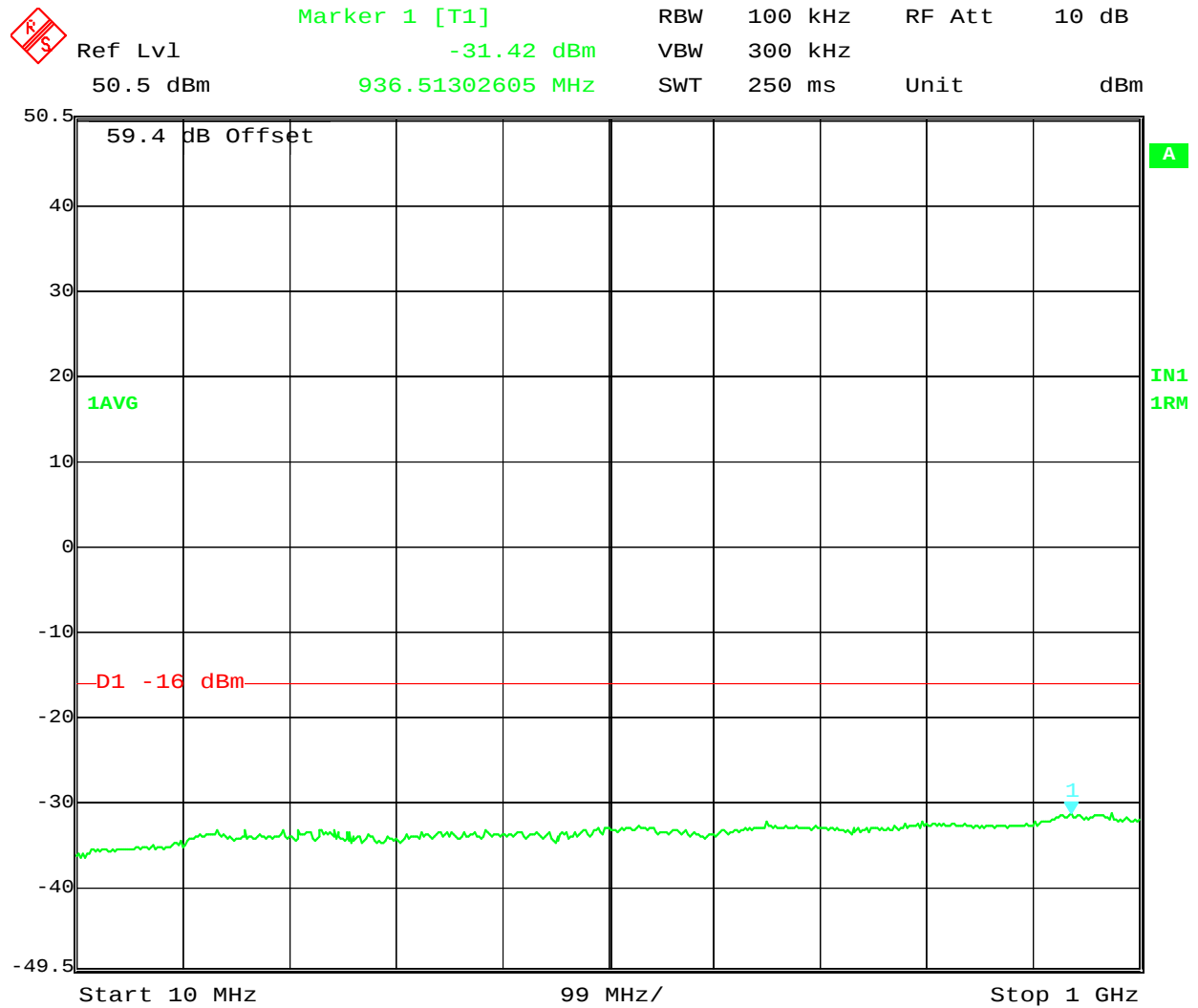
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5MHz; 10+5MHz BW; PWR:120W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 08:17:47

**Transmit Port
Antenna Conducted Spurious Emissions**

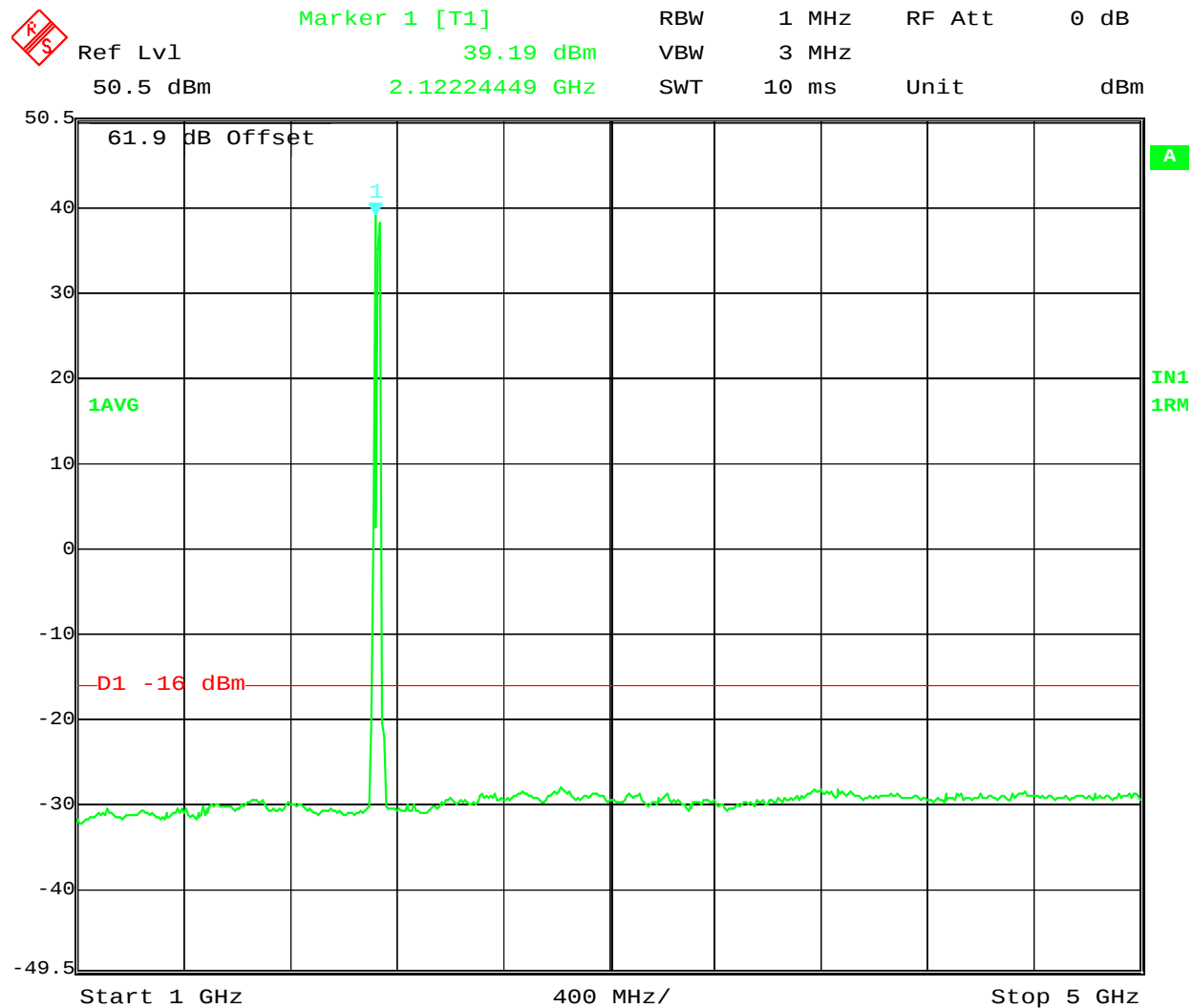
**Block: B+E
10+5 MHz Bandwidth (2120-2130 MHz + 2140-2145
MHz)
2x120 watts (MIMO)
16QAM Modulation**



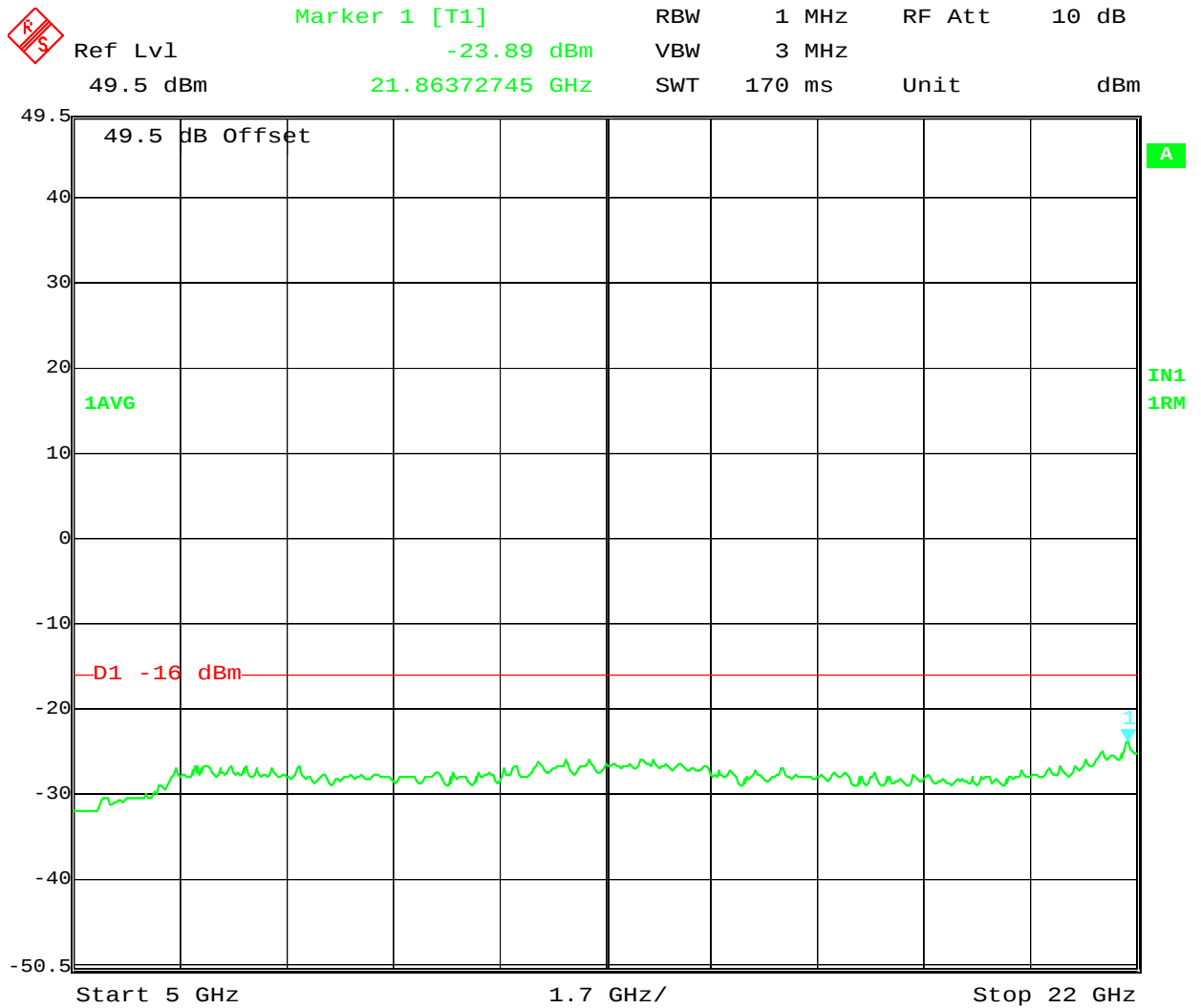
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 09:58:36



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 5.SEP.2013 09:59:21



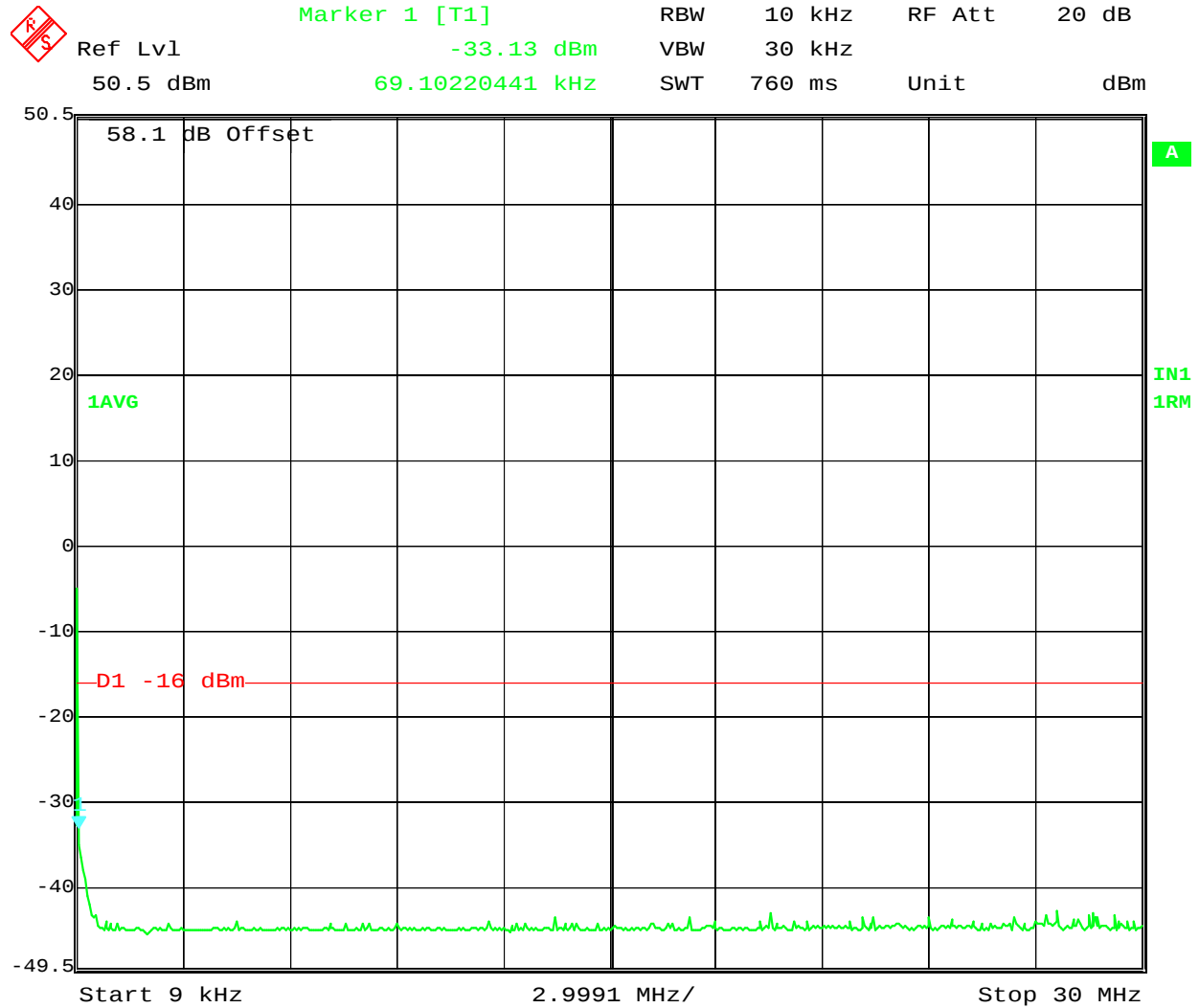
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 10:00:25



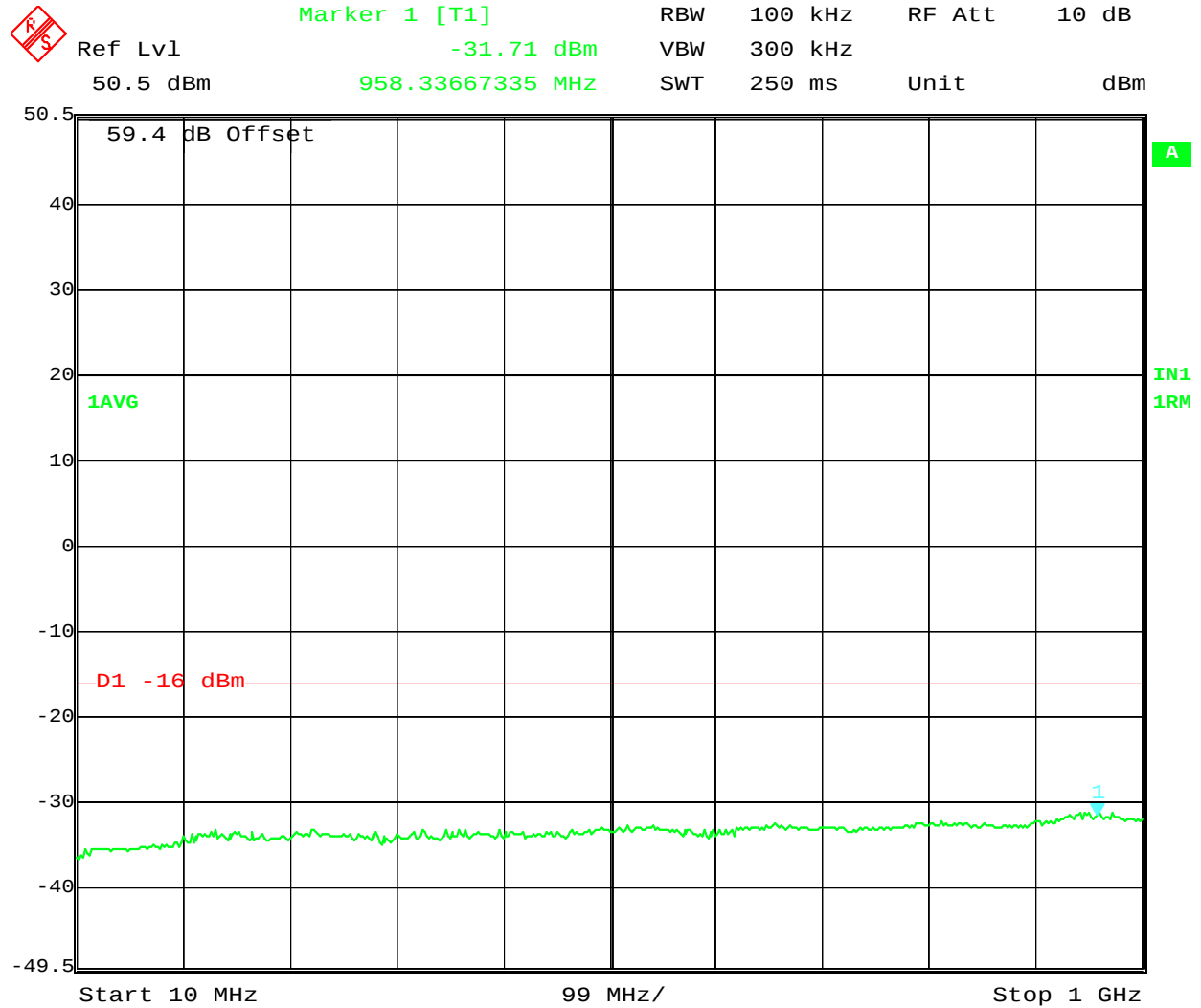
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5MHz; 10+5MHz BW; PWR:120W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 10:01:14

**Transmit Port
Antenna Conducted Spurious Emissions**

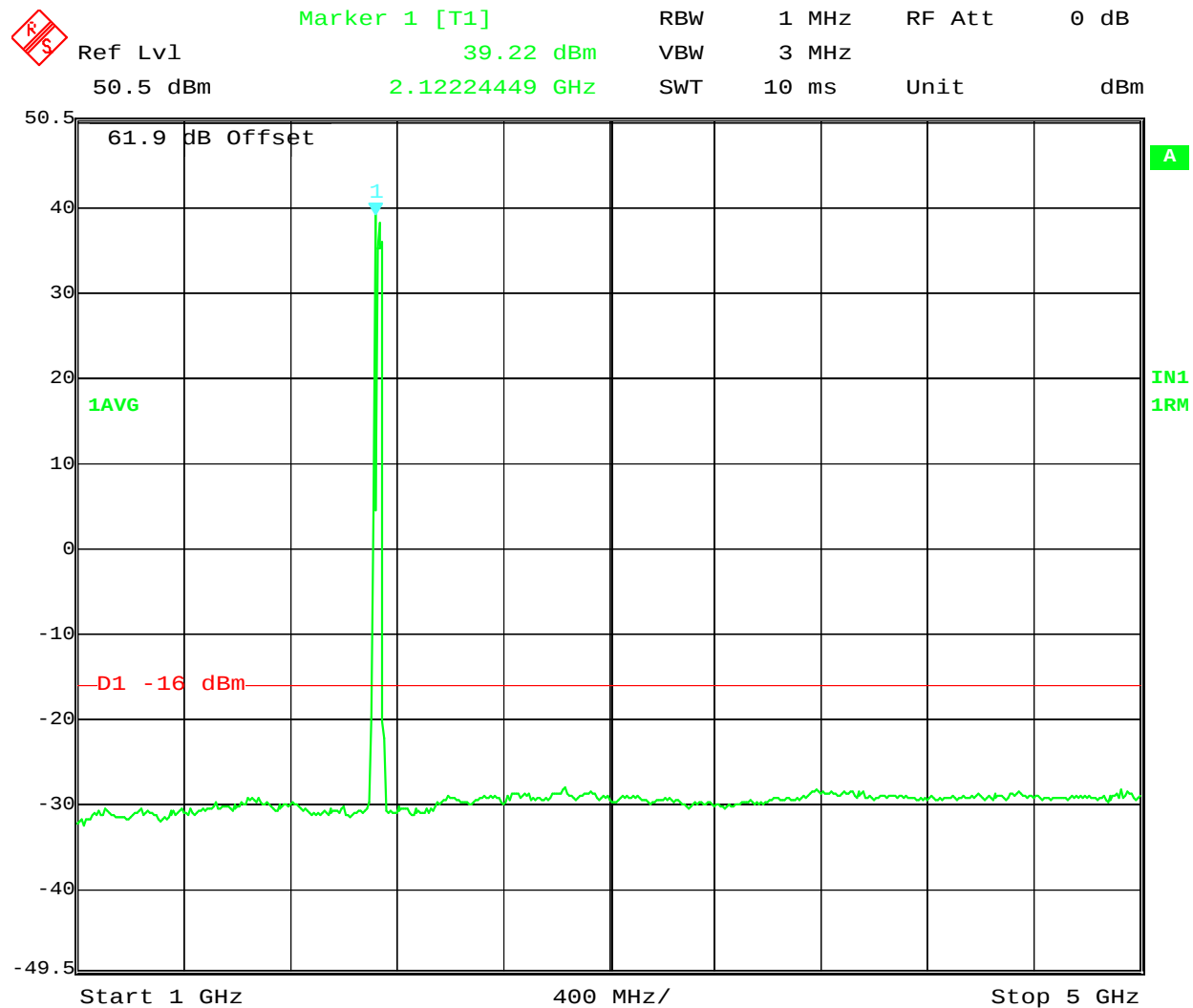
**Block: B+E
10+5 MHz Bandwidth (2120-2130 MHz + 2140-2145
MHz)
2x120 watts (MIMO)
64QAM Modulation**



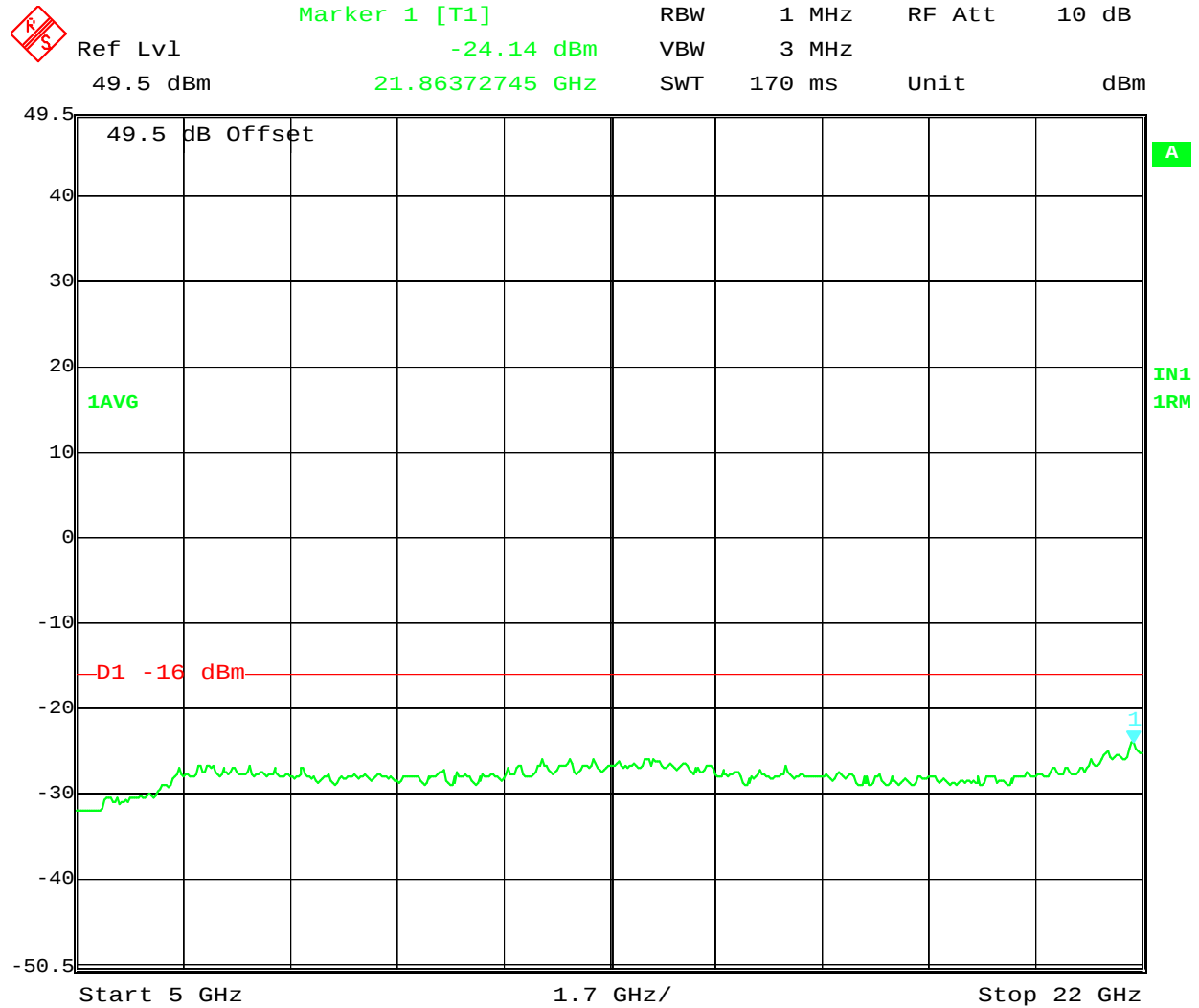
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 10:17:37



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 10:18:09



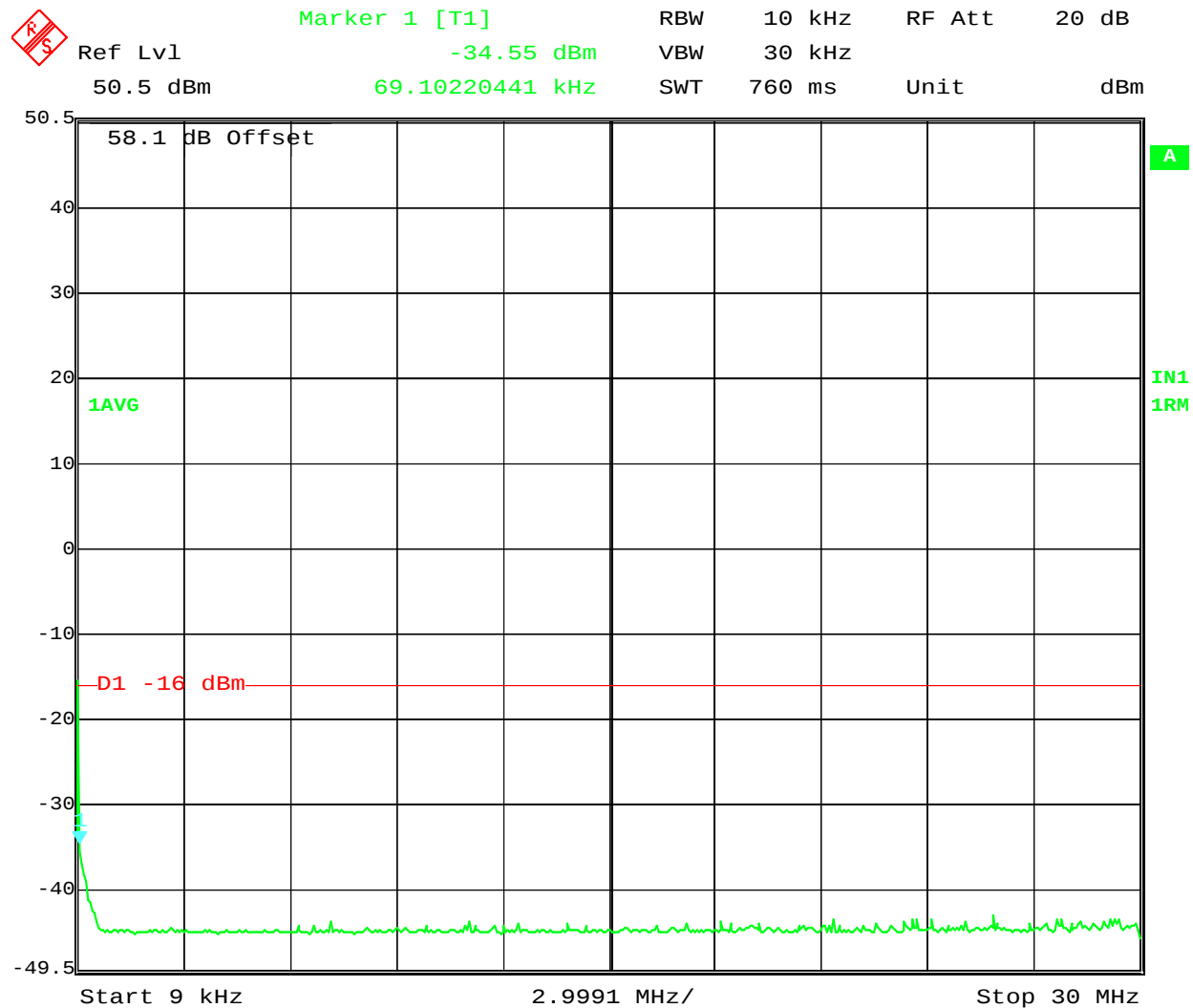
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5 MHz; 10+5MHz BW; PWR:120W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 5.SEP.2013 10:58:21



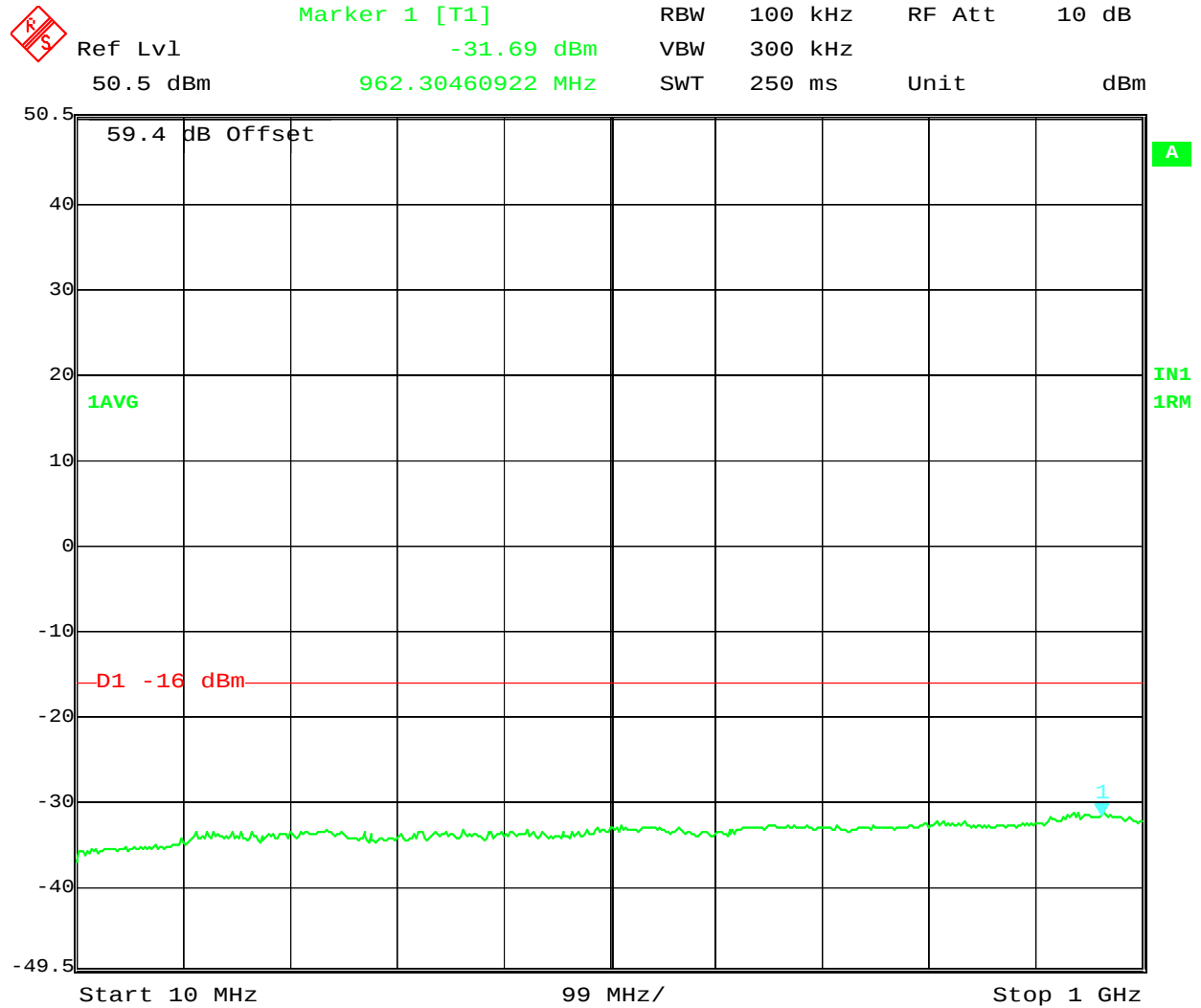
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK B+E; 2125+2142.5MHz; 10+5MHz BW; PWR:120W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 5.SEP.2013 10:19:44

**Transmit Port
Antenna Conducted Spurious Emissions**

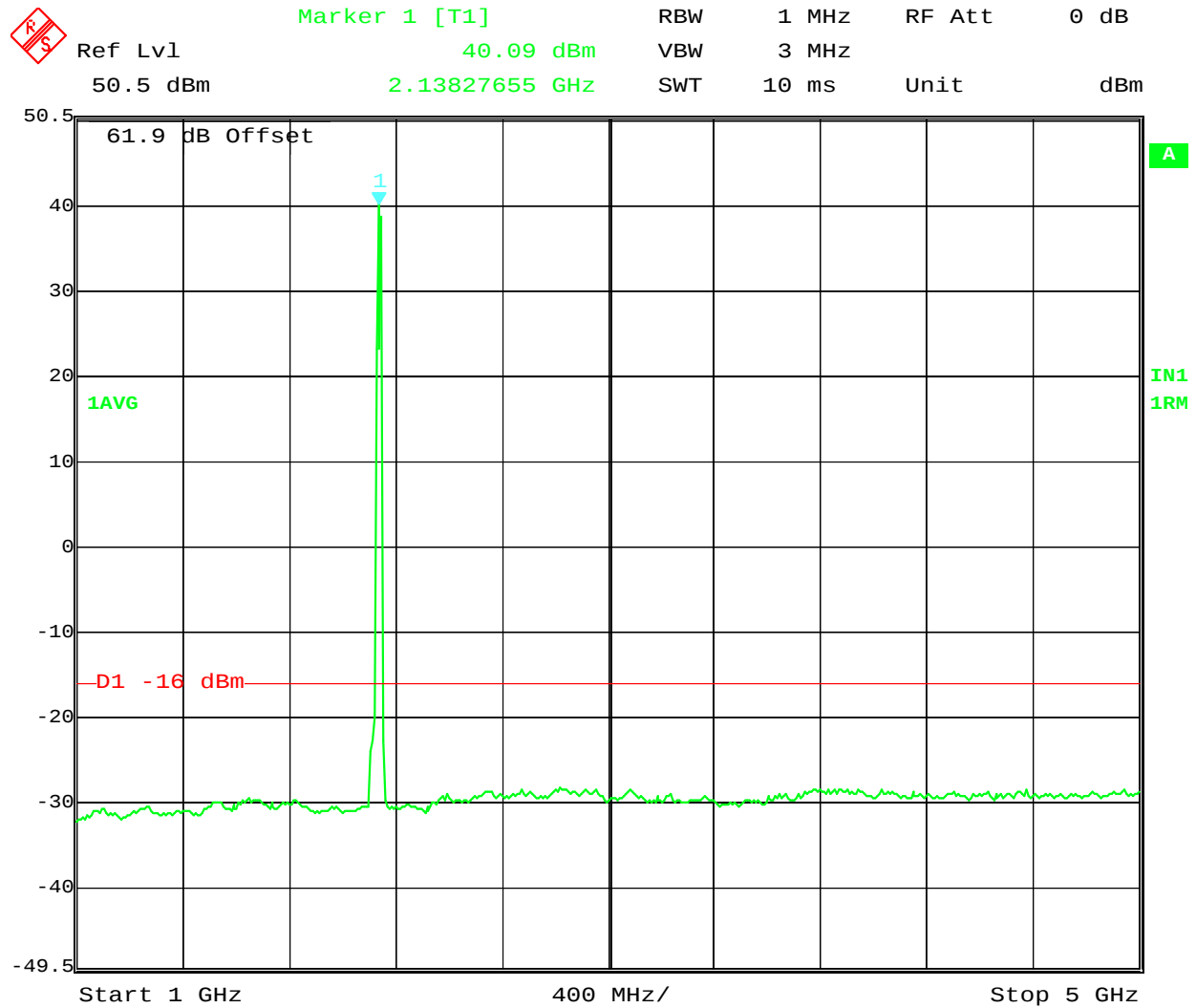
**Block: D+F
5+10 MHz Bandwidth (2135-2140 MHz + 2145-2155
MHz)
2x120 watts (MIMO)
QPSK Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 29.AUG.2013 11:37:59

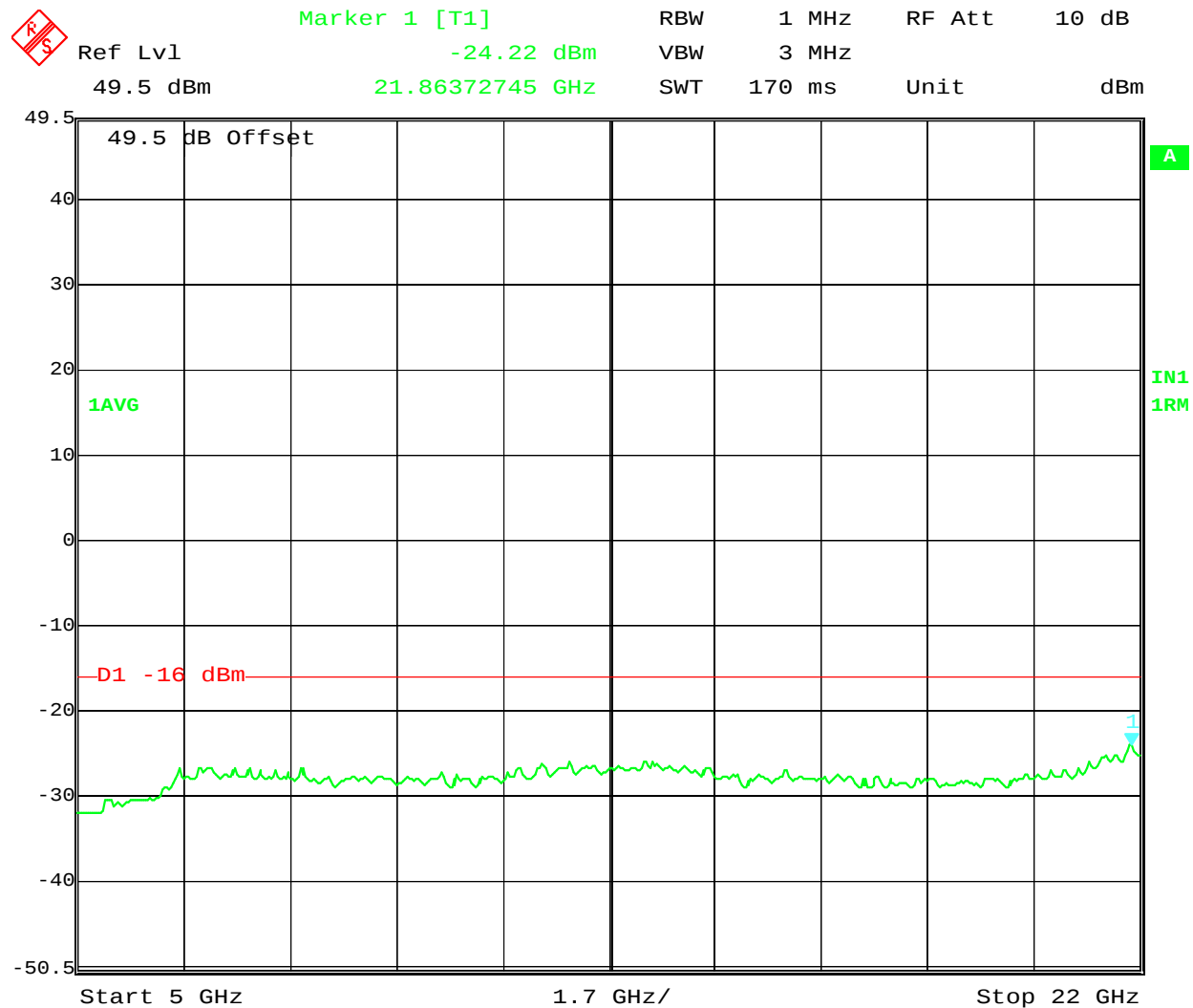


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 29.AUG.2013 11:38:33



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 11:39:22

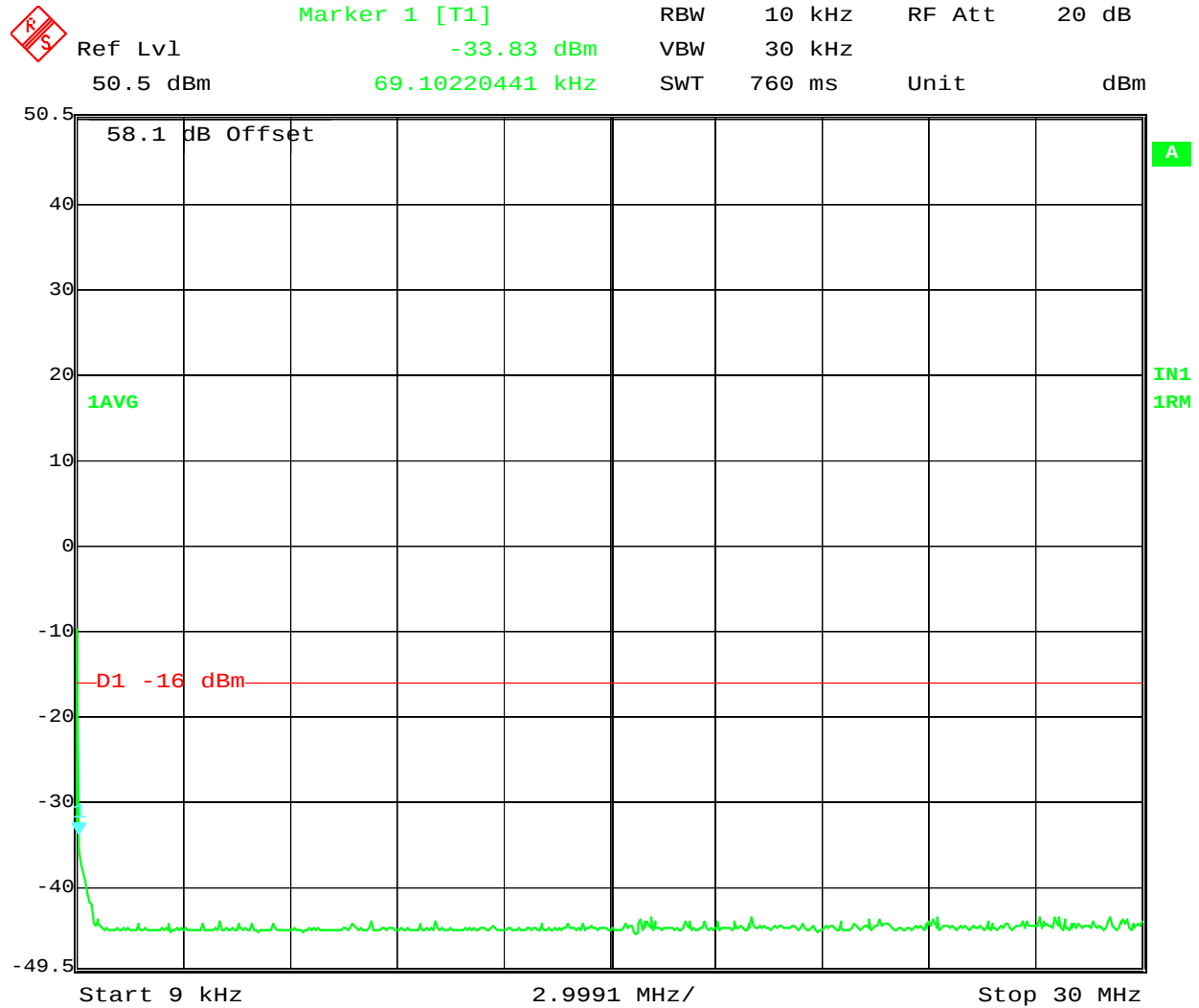
HPF



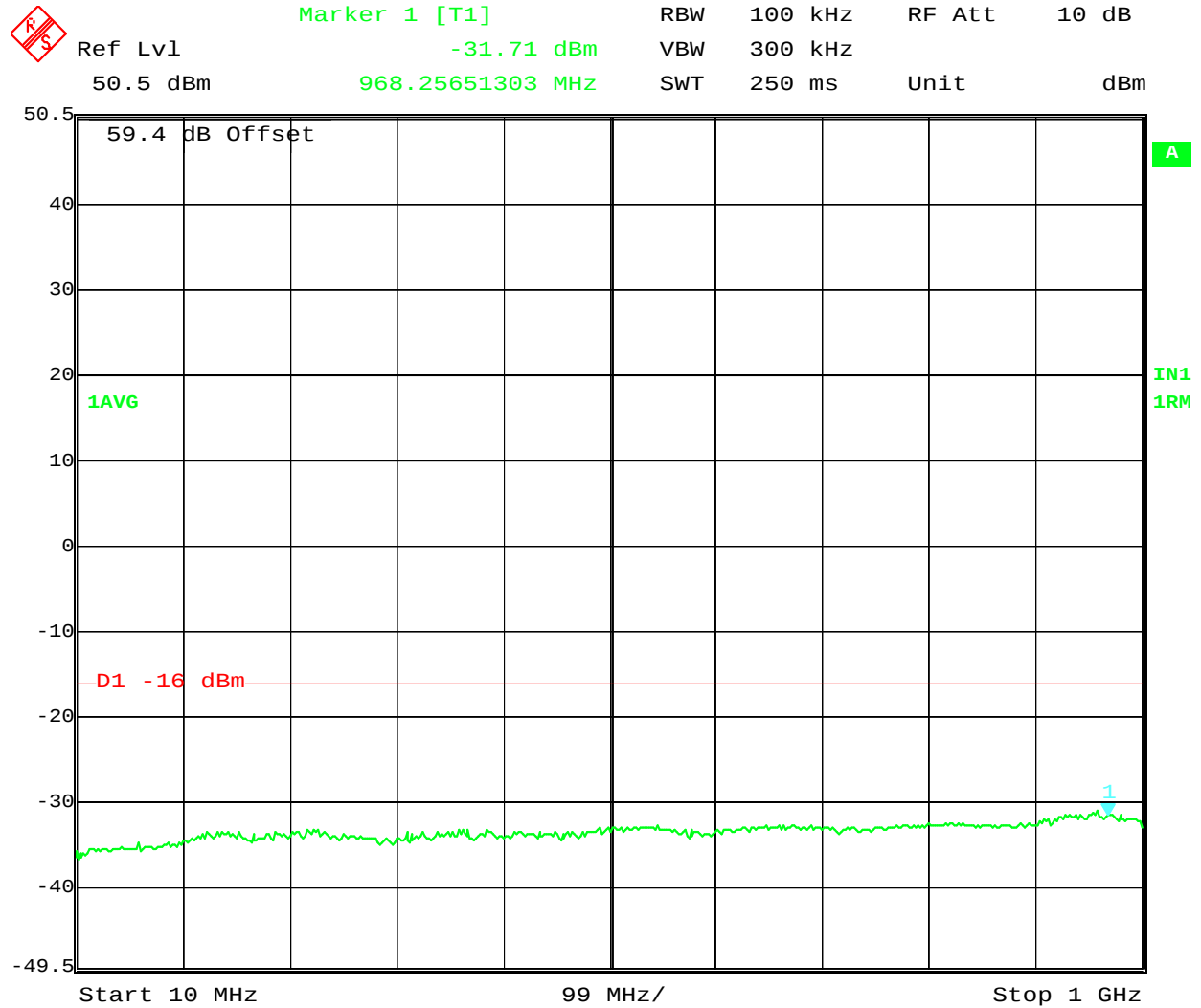
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150MHz; 5+10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 11:40:02

**Transmit Port
Antenna Conducted Spurious Emissions**

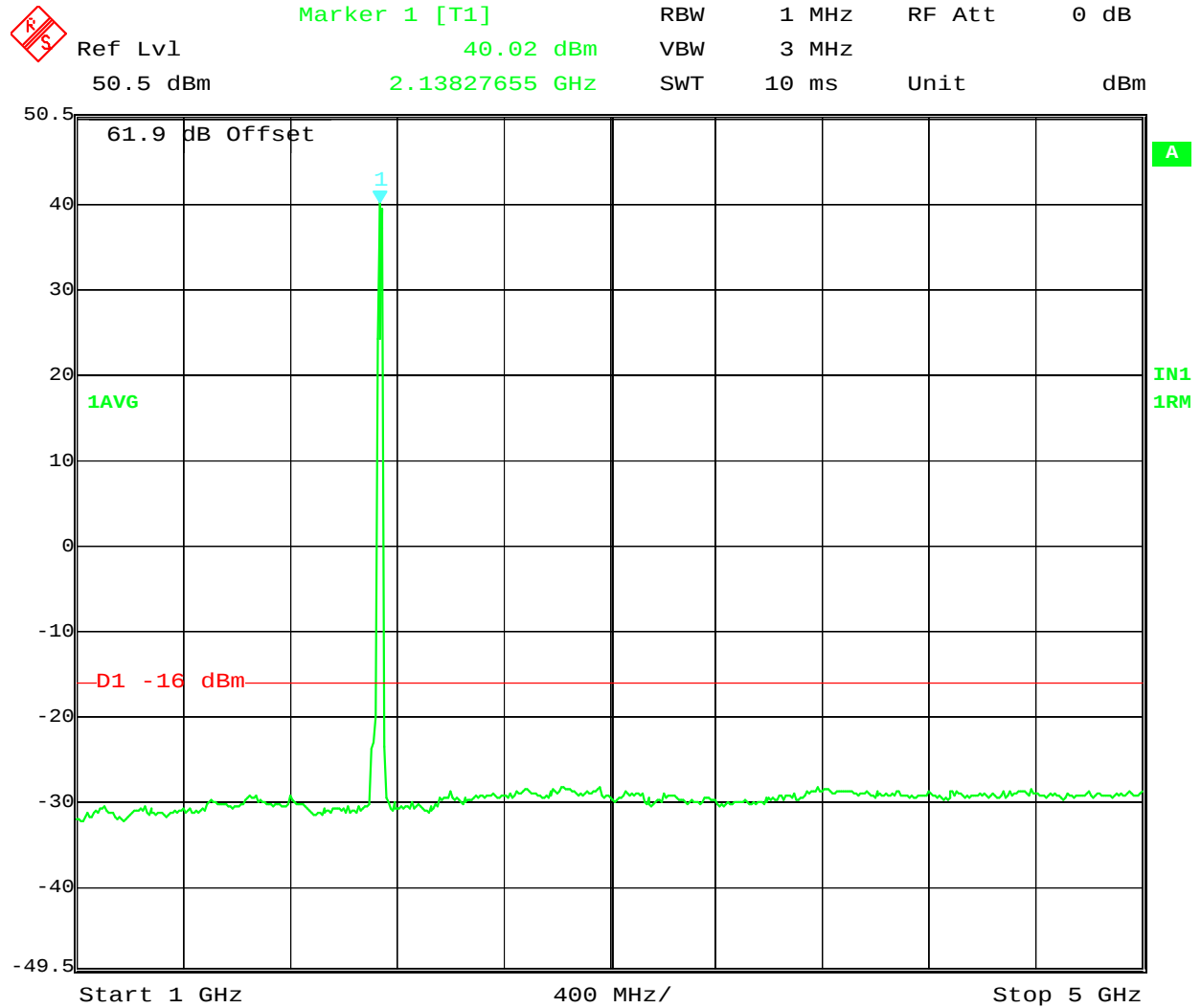
**Block: D+F
5+10 MHz Bandwidth (2135-2140 MHz + 2145-2155
MHz)
2x120 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 29.AUG.2013 10:34:09



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150MHz; 5+10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 10:33:10

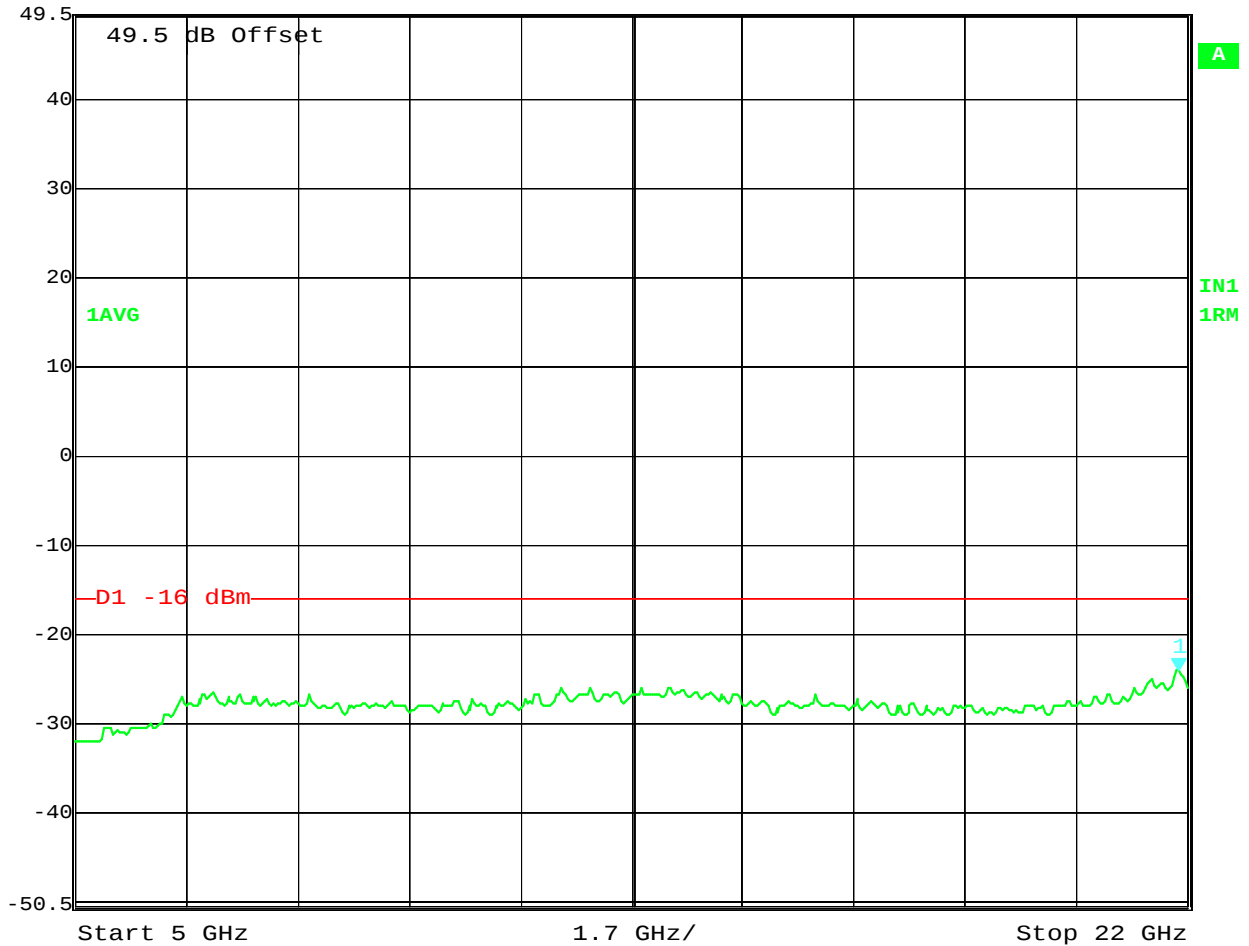


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150MHz; 5+10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 29.AUG.2013 10:35:05

HPF



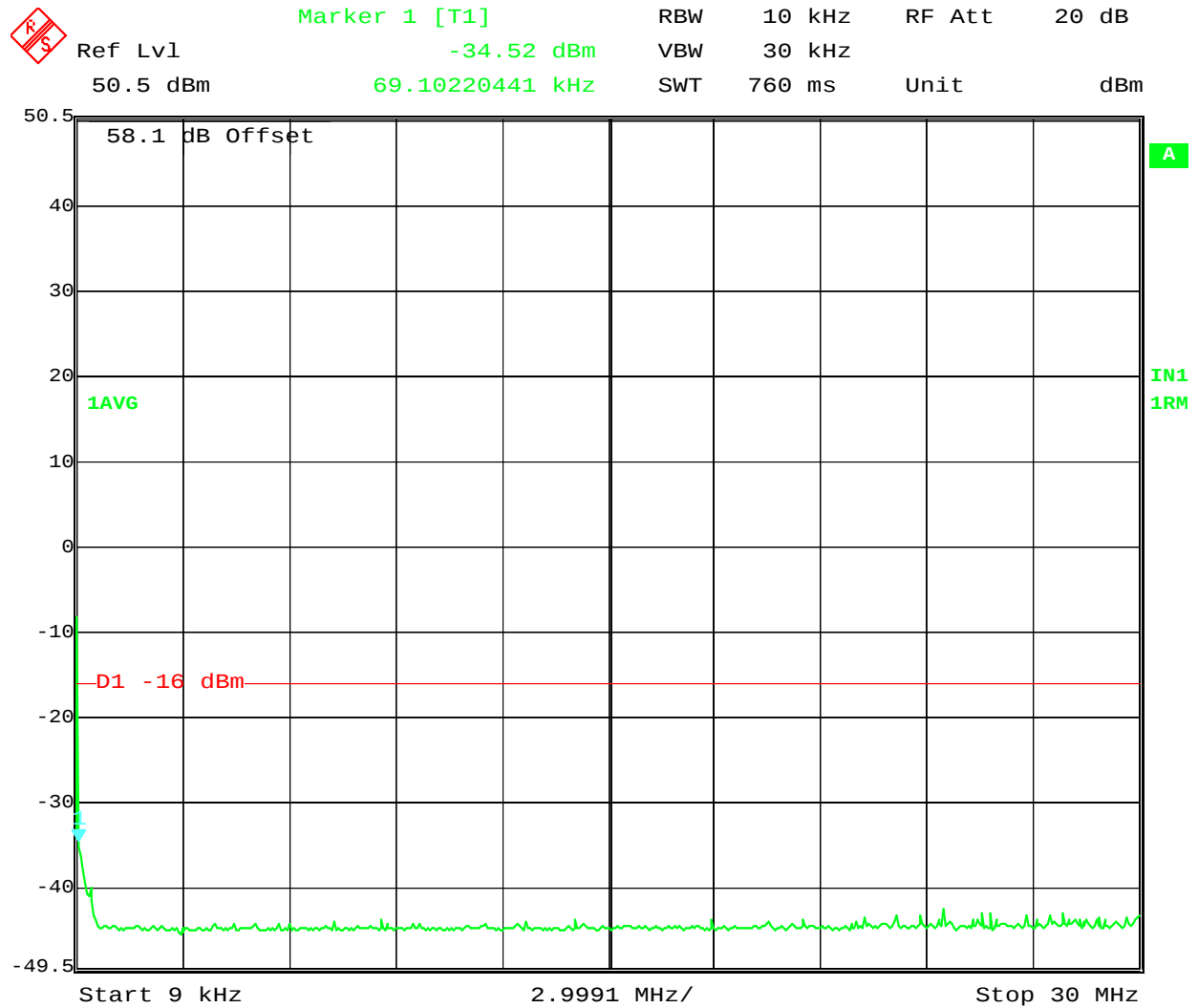
Ref Lvl 49.5 dBm
 Marker 1 [T1] -24.21 dBm
 21.86372745 GHz
 RBW 1 MHz
 VBW 3 MHz
 SWT 170 ms
 RF Att 10 dB
 Unit dBm



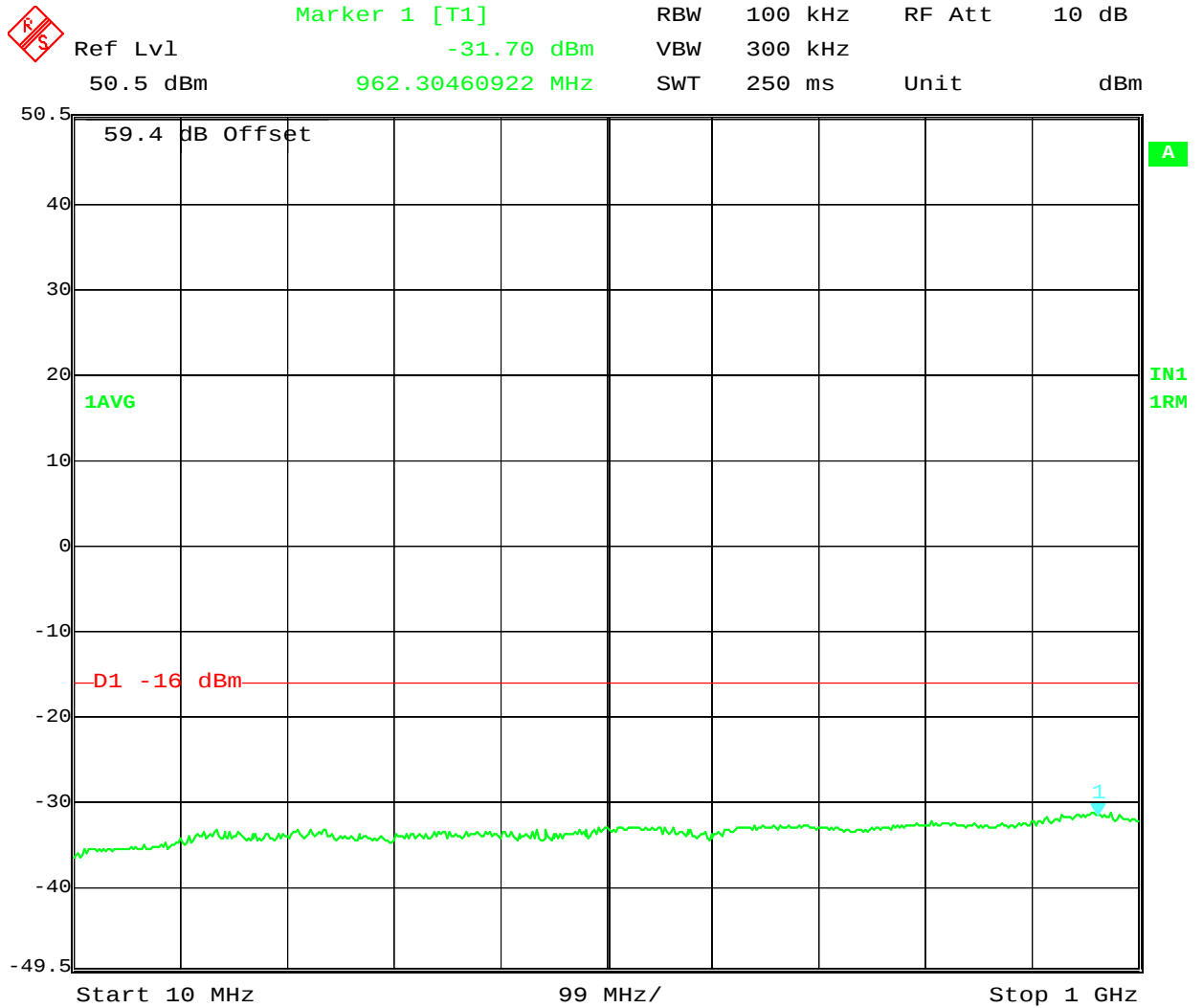
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150MHz; 5+10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 10:38:27

**Transmit Port
Antenna Conducted Spurious Emissions**

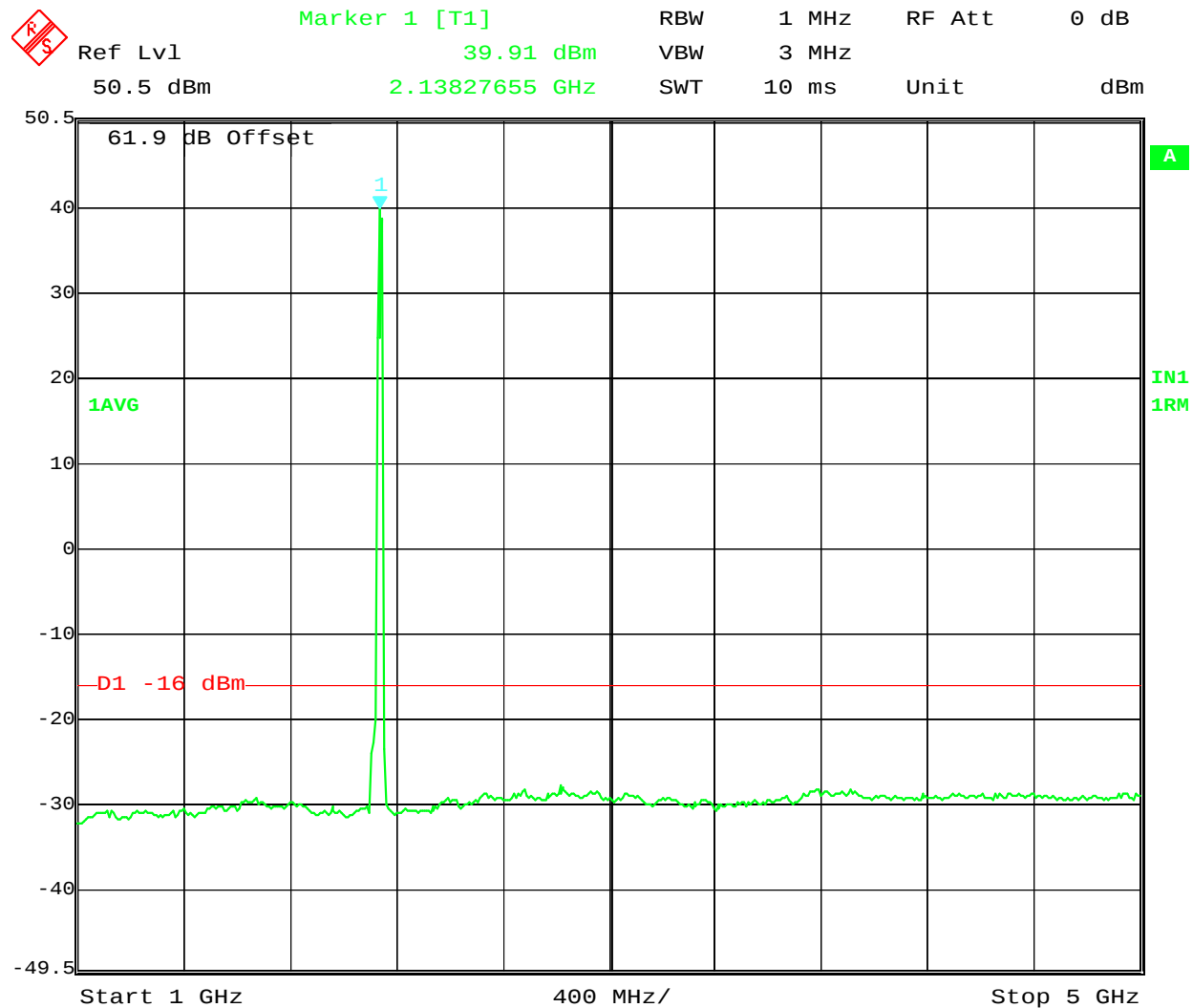
**Block: D+F
5+10 MHz Bandwidth (2135-2140 MHz + 2145-2155
MHz)
2x120 watts (MIMO)
64QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 29.AUG.2013 08:49:40

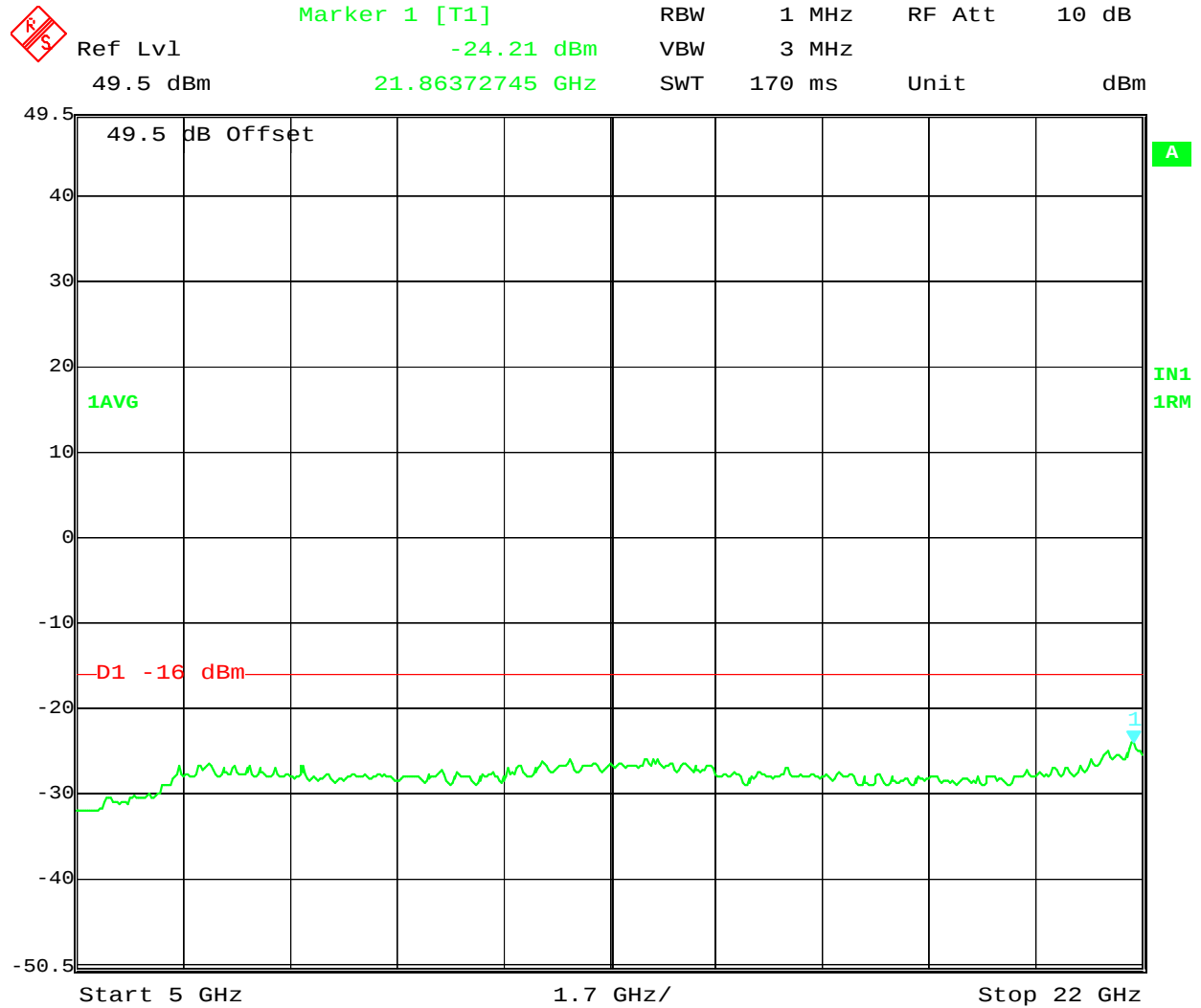


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 08:50:19



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 08:51:03

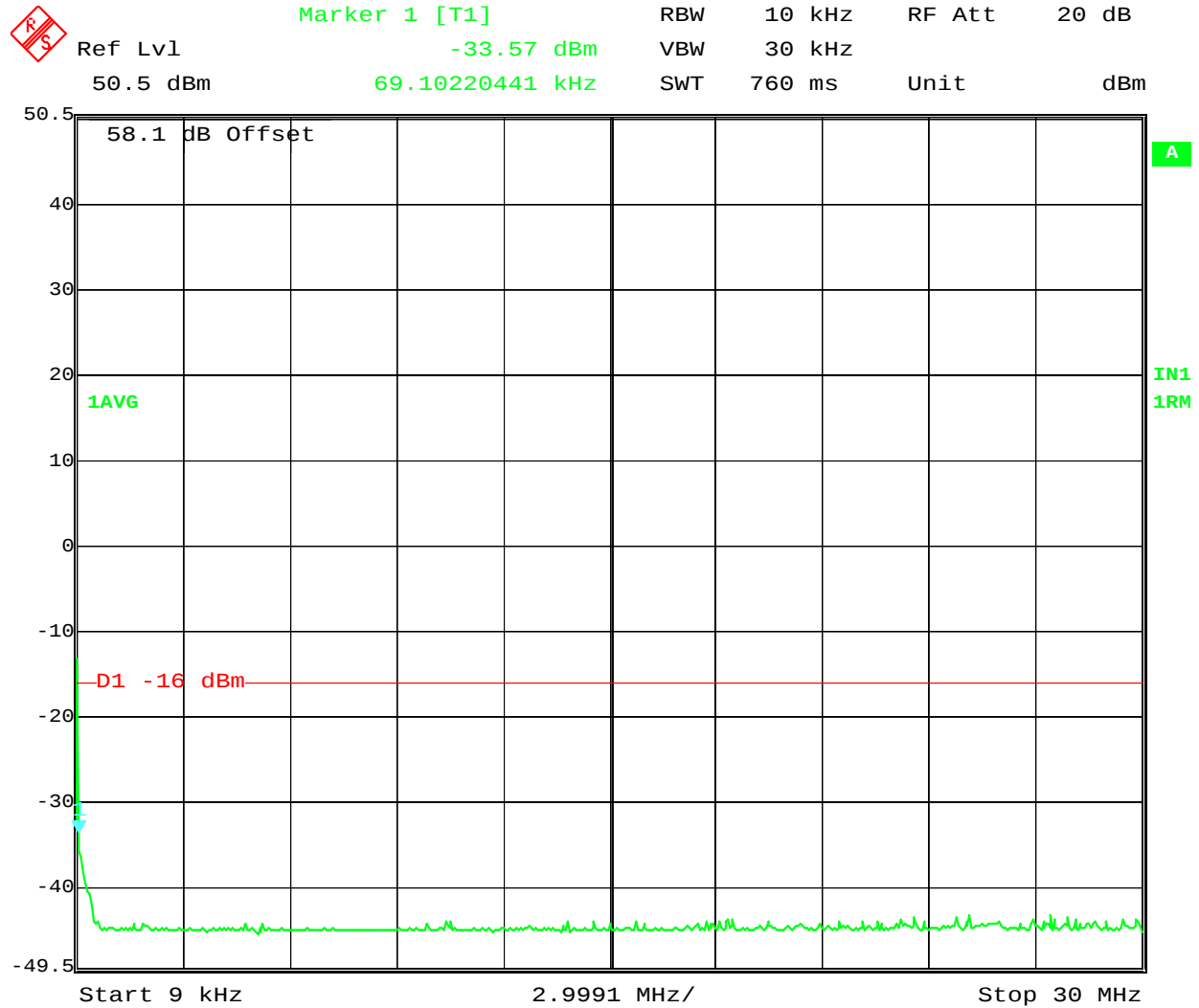
HPF



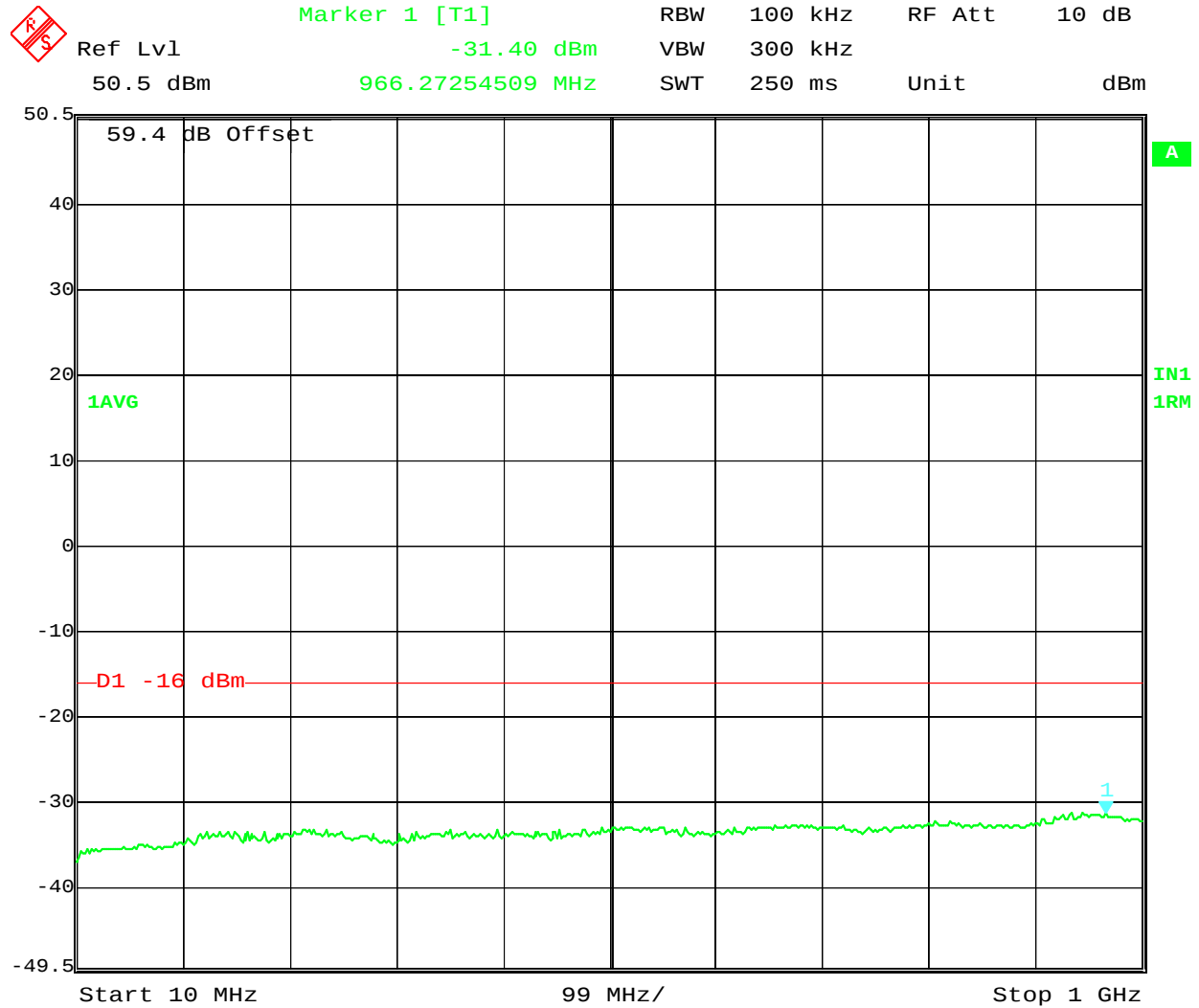
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK D+F; 2137.5+2150 MHz; 5+10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 08:51:41

**Transmit Port
Antenna Conducted Spurious Emissions**

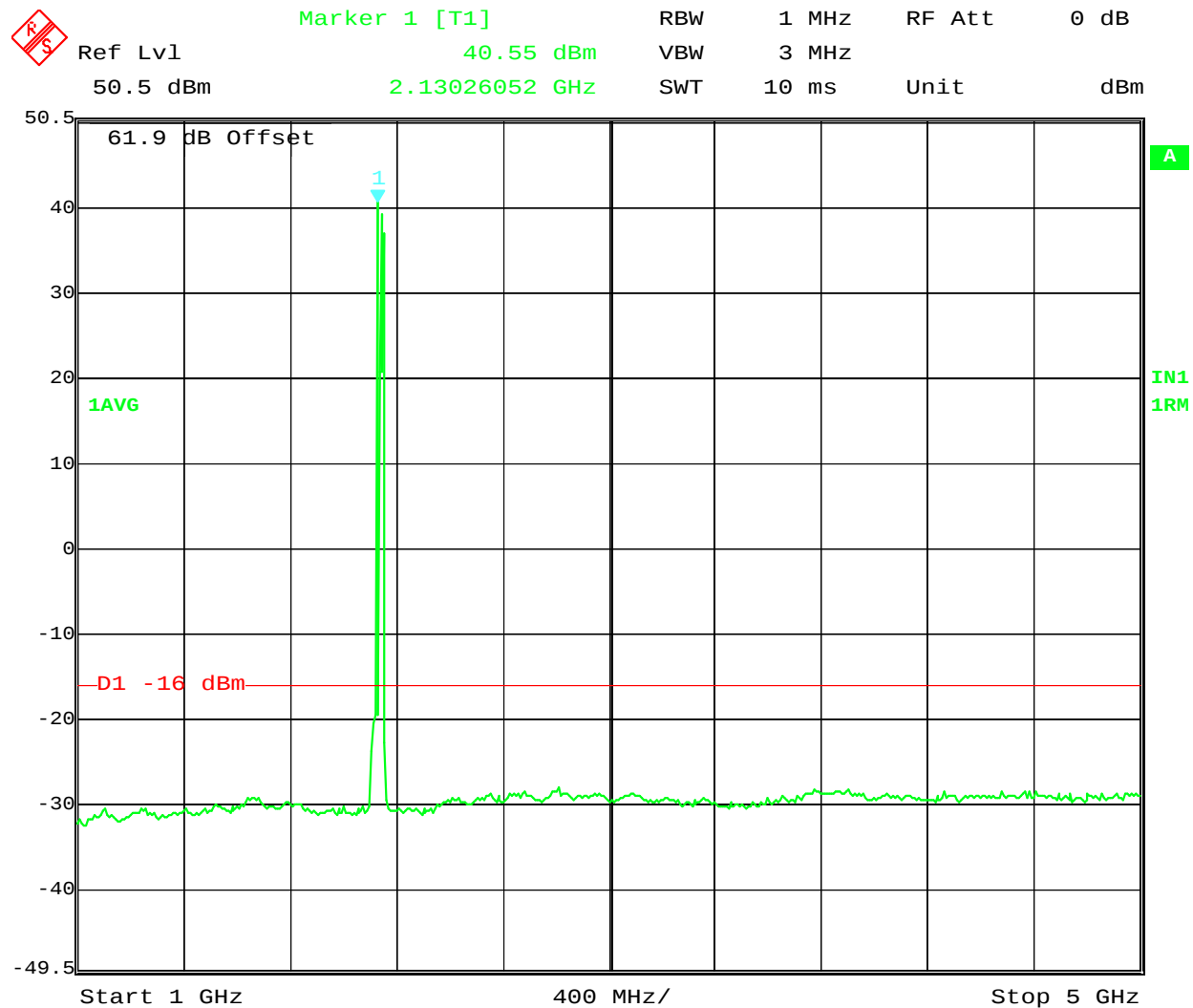
**Block: C+F
5+10 MHz Bandwidth (2130-2135 MHz + 2145-2155
MHz)
2x120 watts (MIMO)
QPSK Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 12:28:54



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 12:29:50



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W

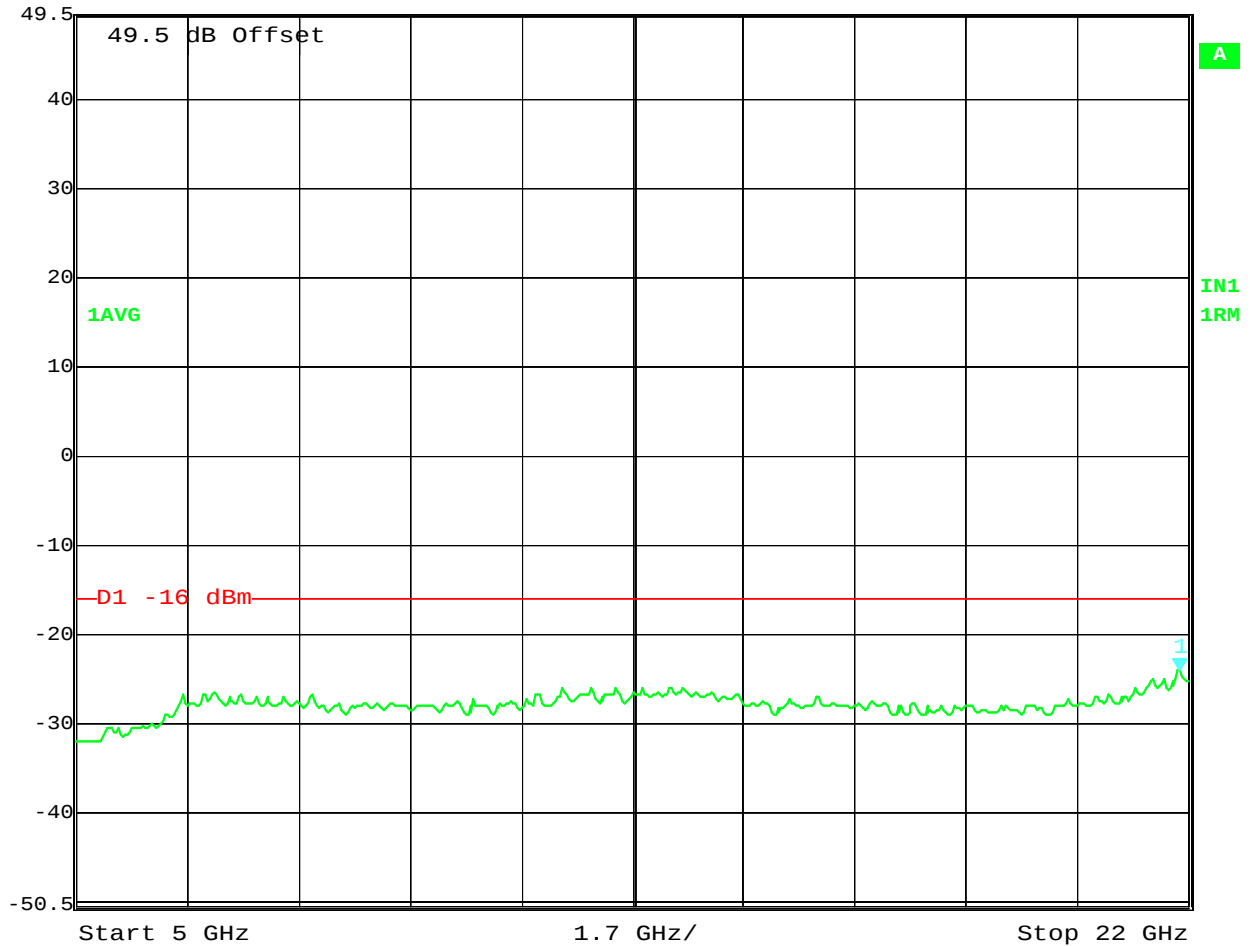
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13

Date: 29.AUG.2013 12:37:30

HPF



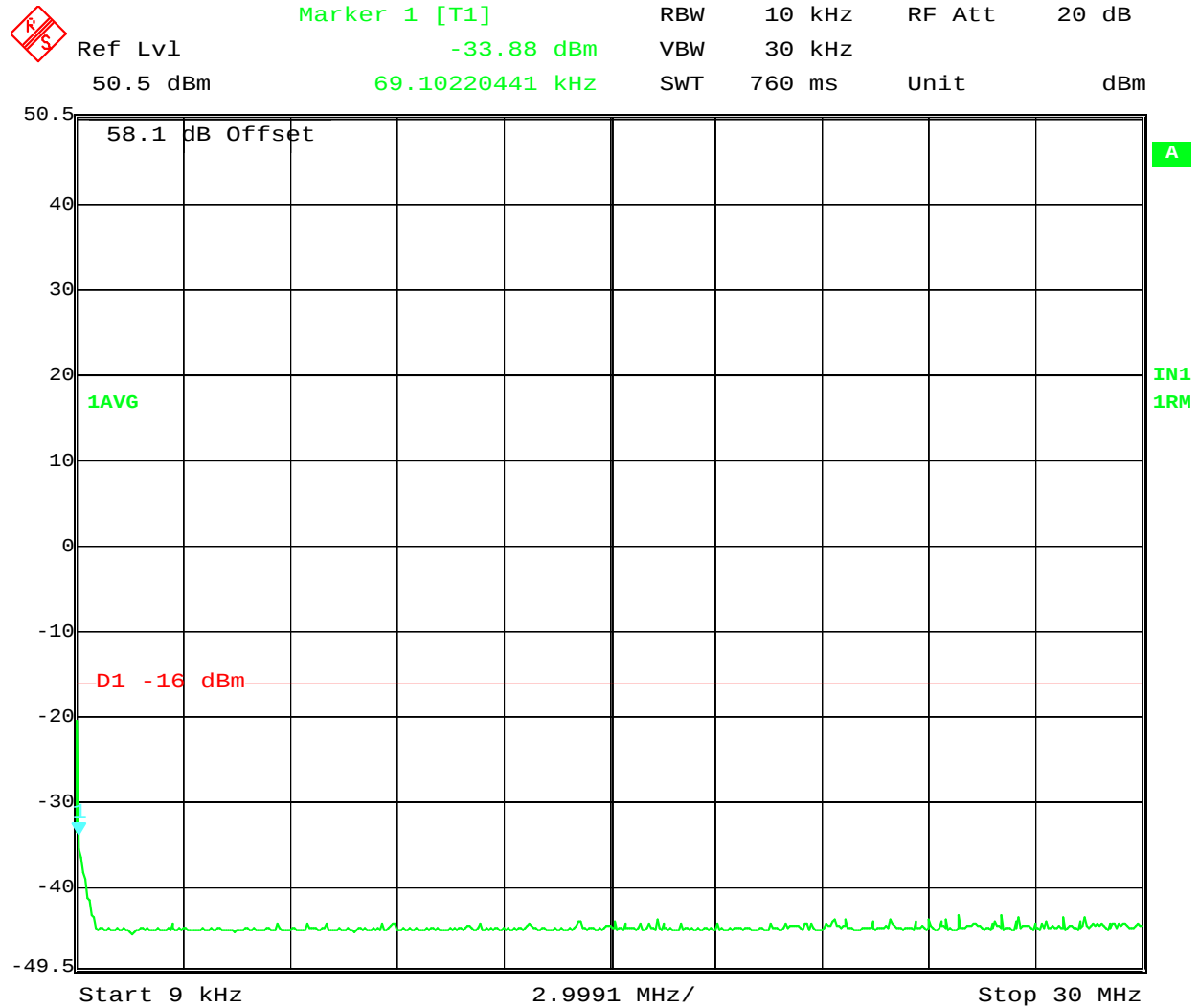
Marker 1 [T1] RBW 1 MHz RF Att 10 dB
 Ref Lvl -24.06 dBm VBW 3 MHz
 49.5 dBm 21.86372745 GHz SWT 170 ms Unit dBm



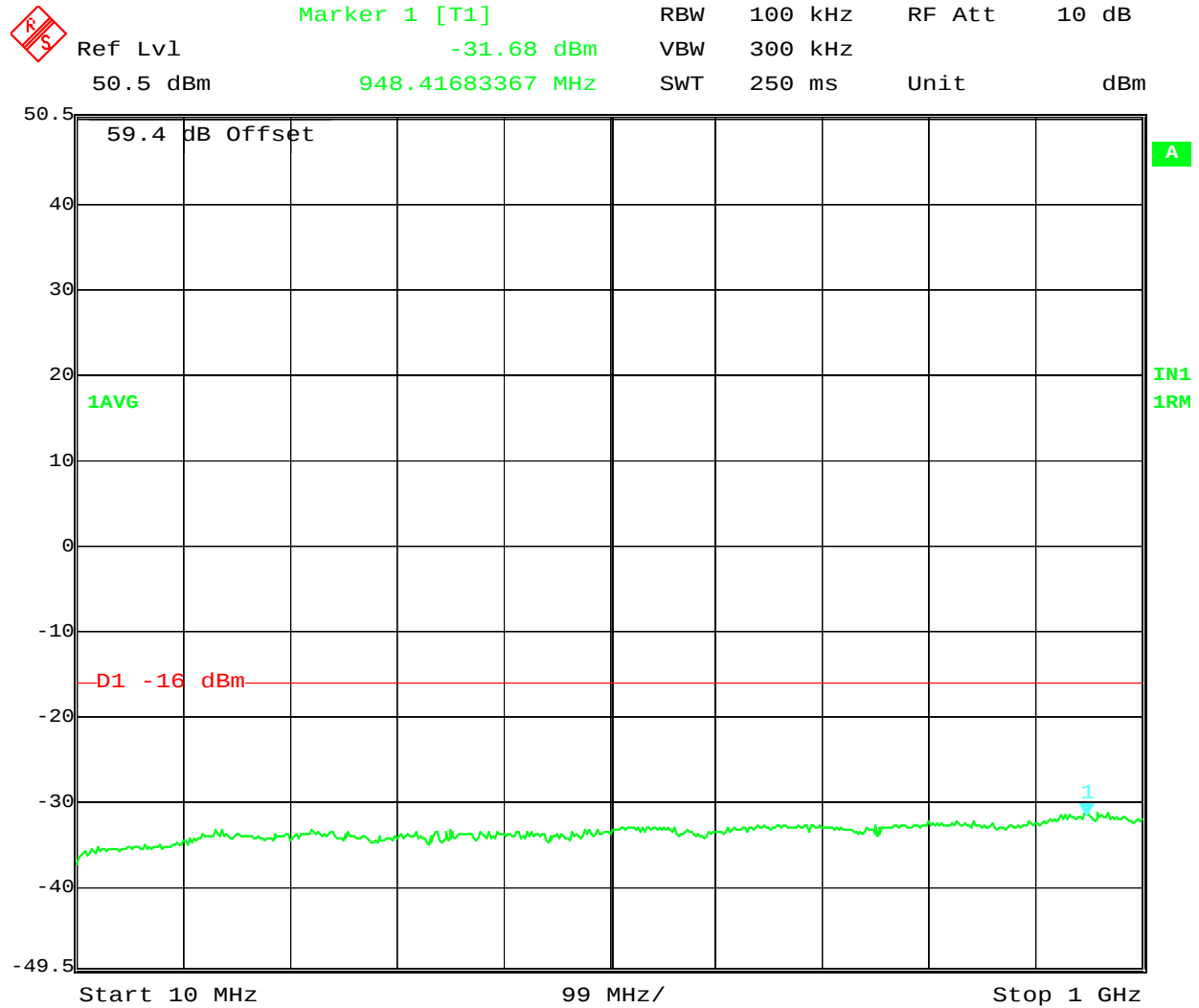
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150MHz; 5+10MHz BW; PWR:120W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 29.AUG.2013 12:38:13

**Transmit Port
Antenna Conducted Spurious Emissions**

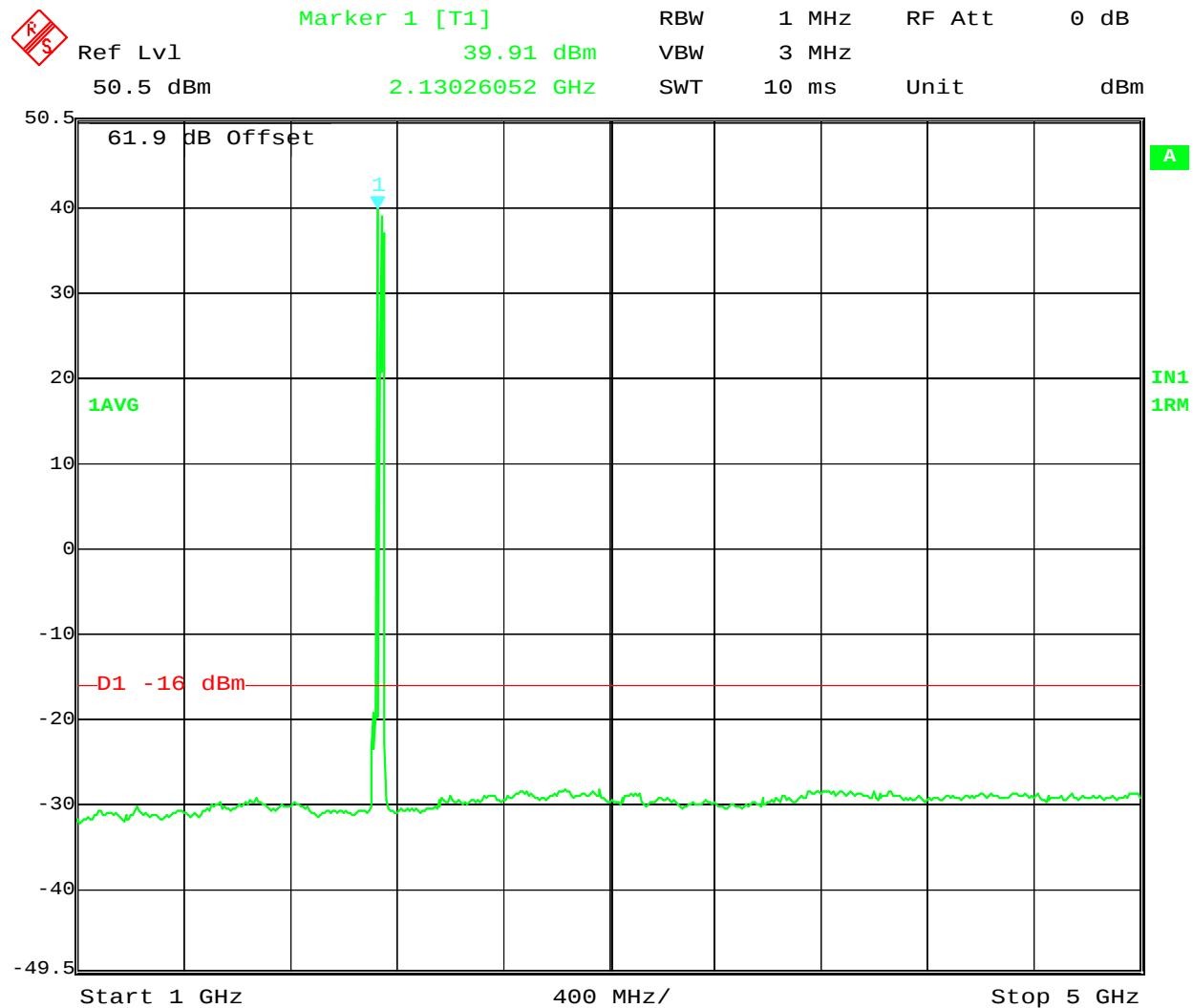
**Block: C+F
5+10 MHz Bandwidth (2130-2135 MHz + 2145-2155
MHz)
2x120 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 07:11:10



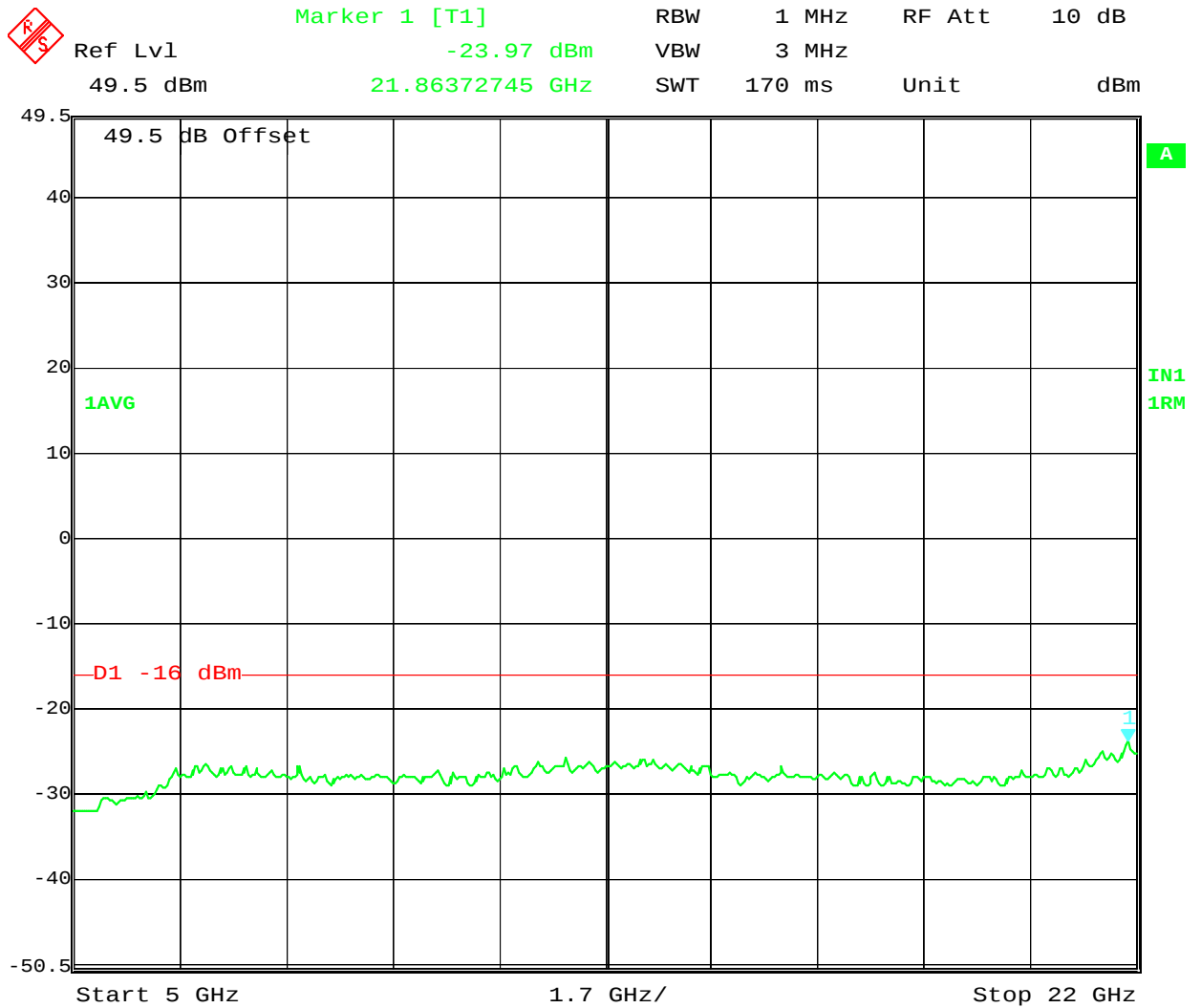
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 07:12:41



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

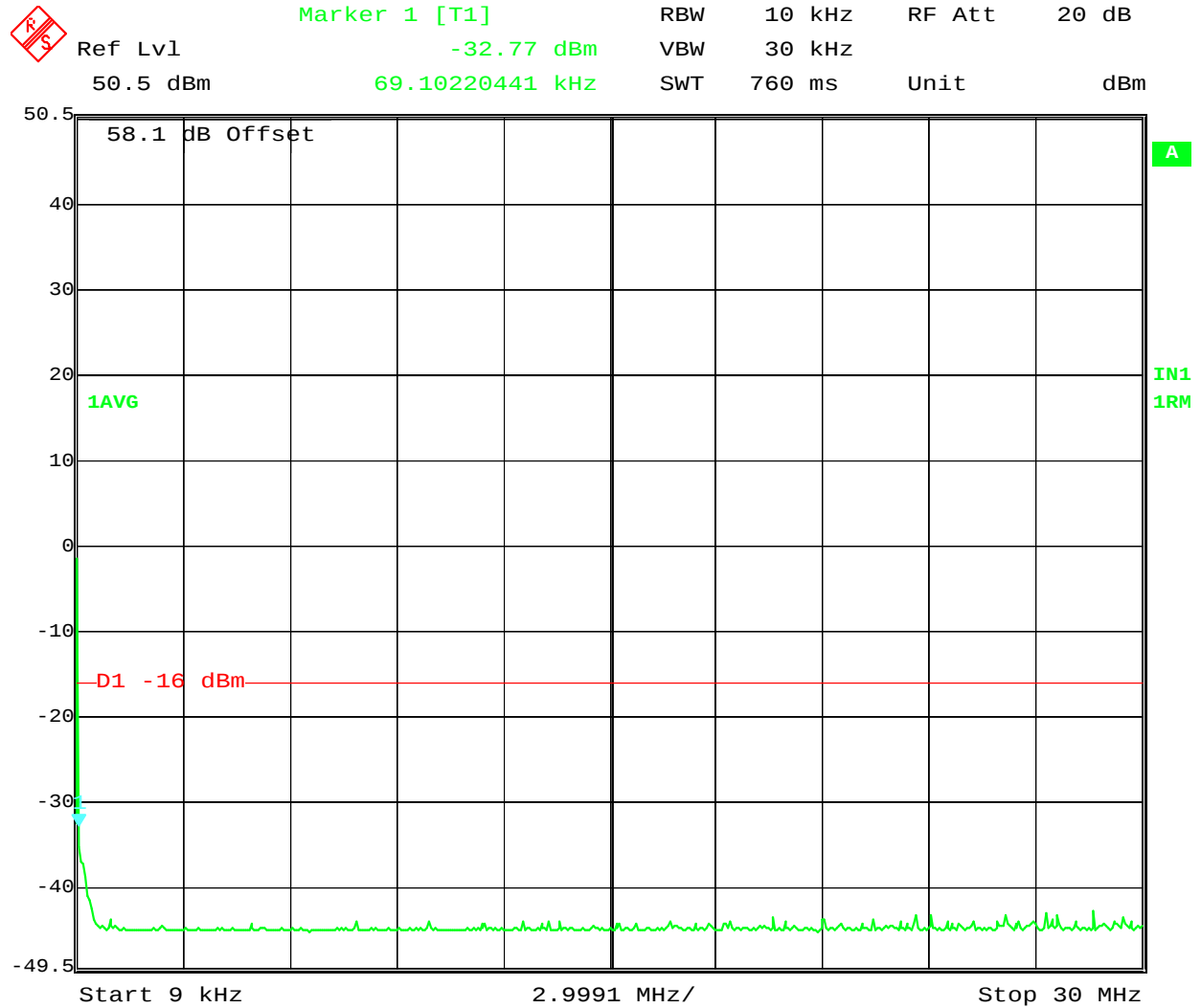
Date: 4.SEP.2013 07:13:22



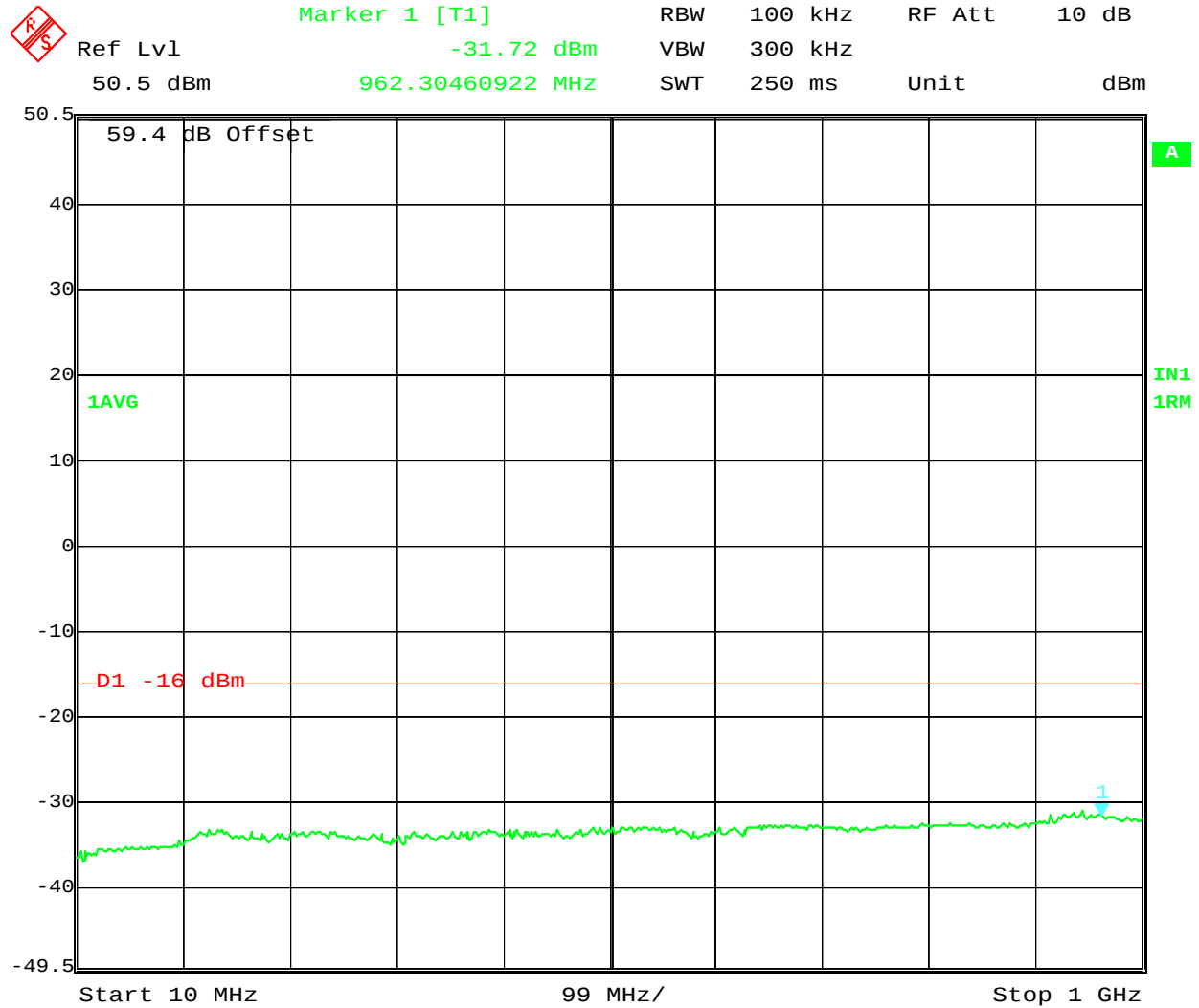
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150MHz; 5+10MHz BW; PWR:120W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 07:14:55

**Transmit Port
Antenna Conducted Spurious Emissions**

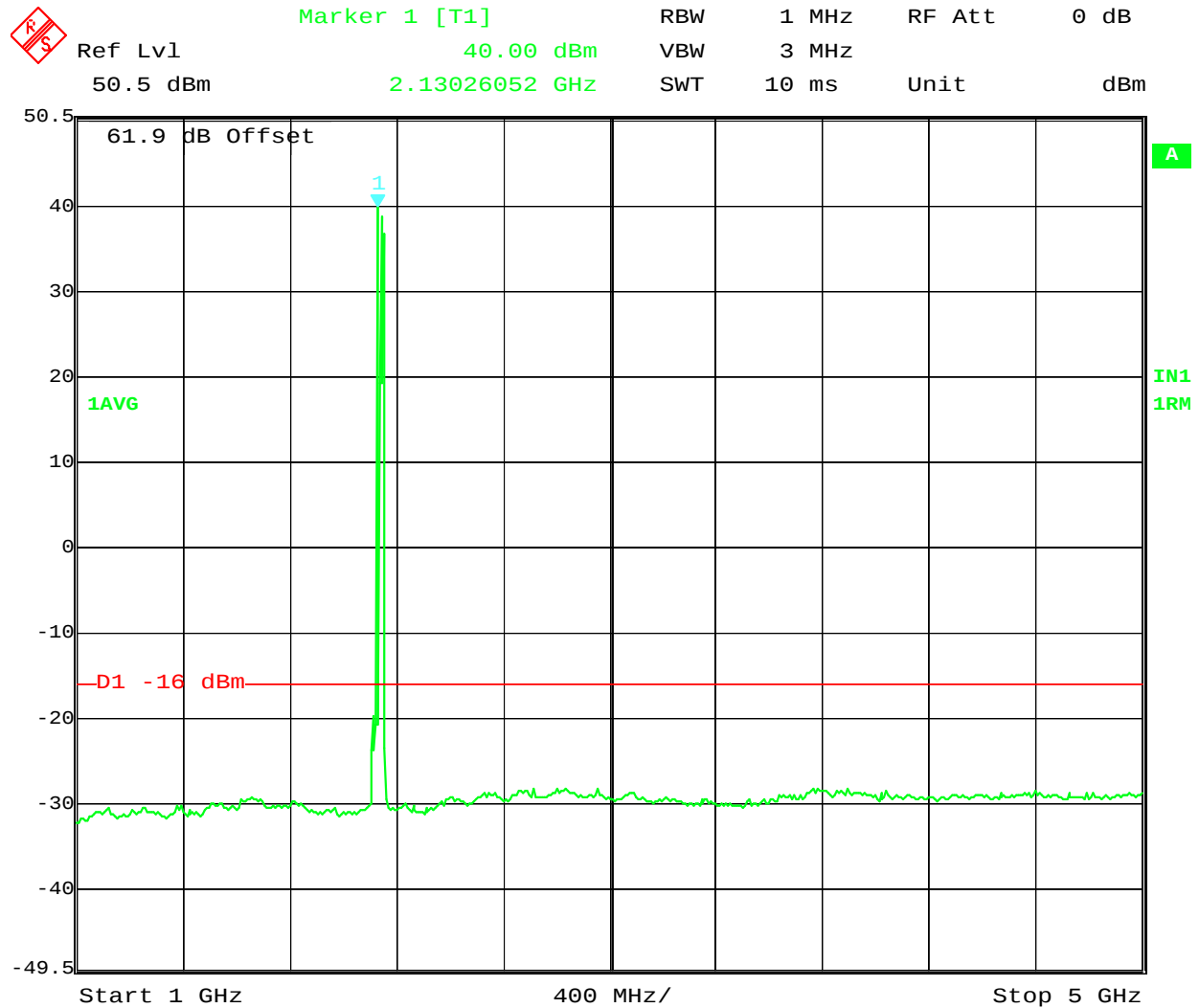
**Block: C+F
5+10 MHz Bandwidth (2130-2135 MHz + 2145-2155
MHz)
2x120 watts (MIMO)
64QAM Modulation**



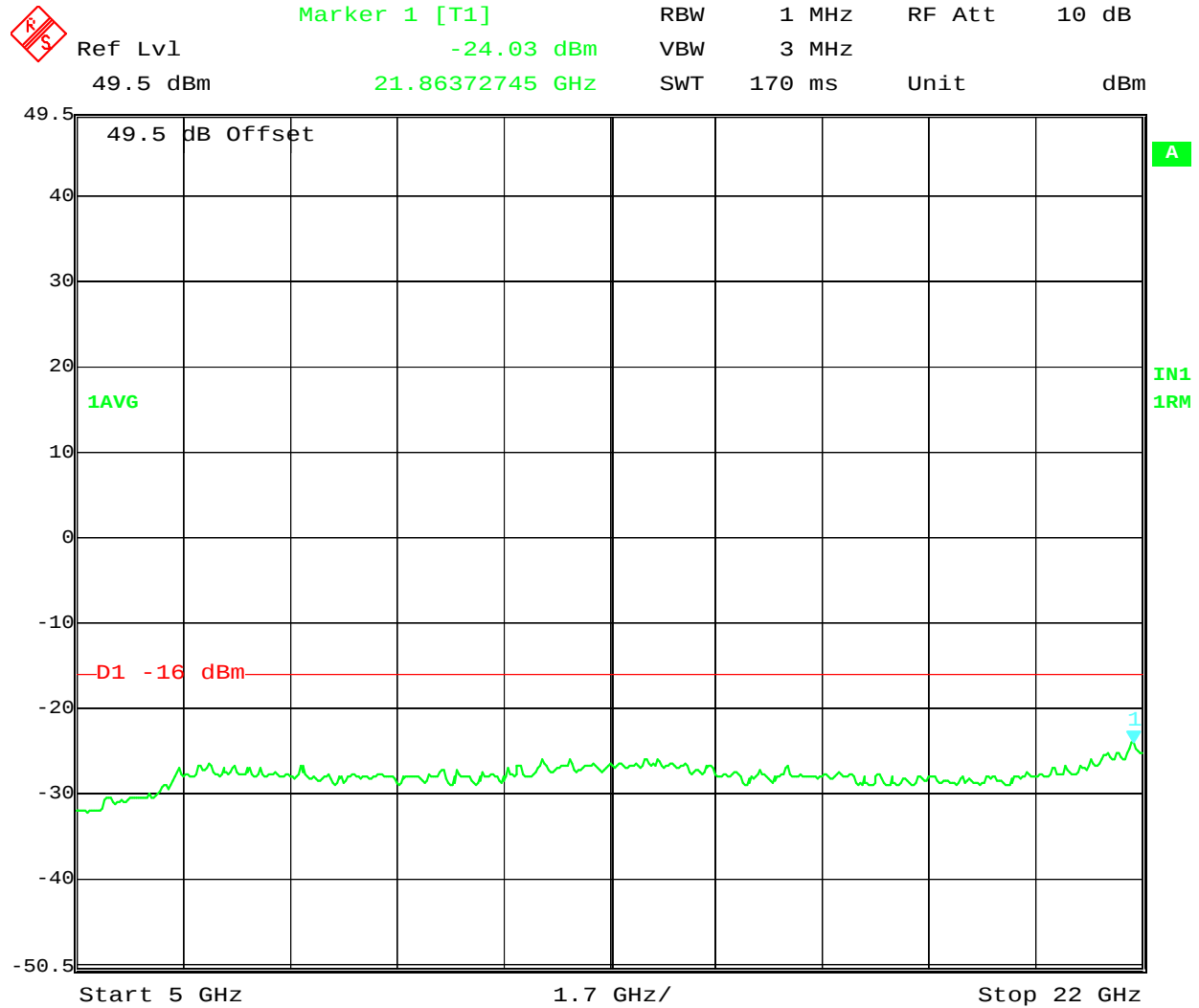
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 08:03:56



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 08:03:19



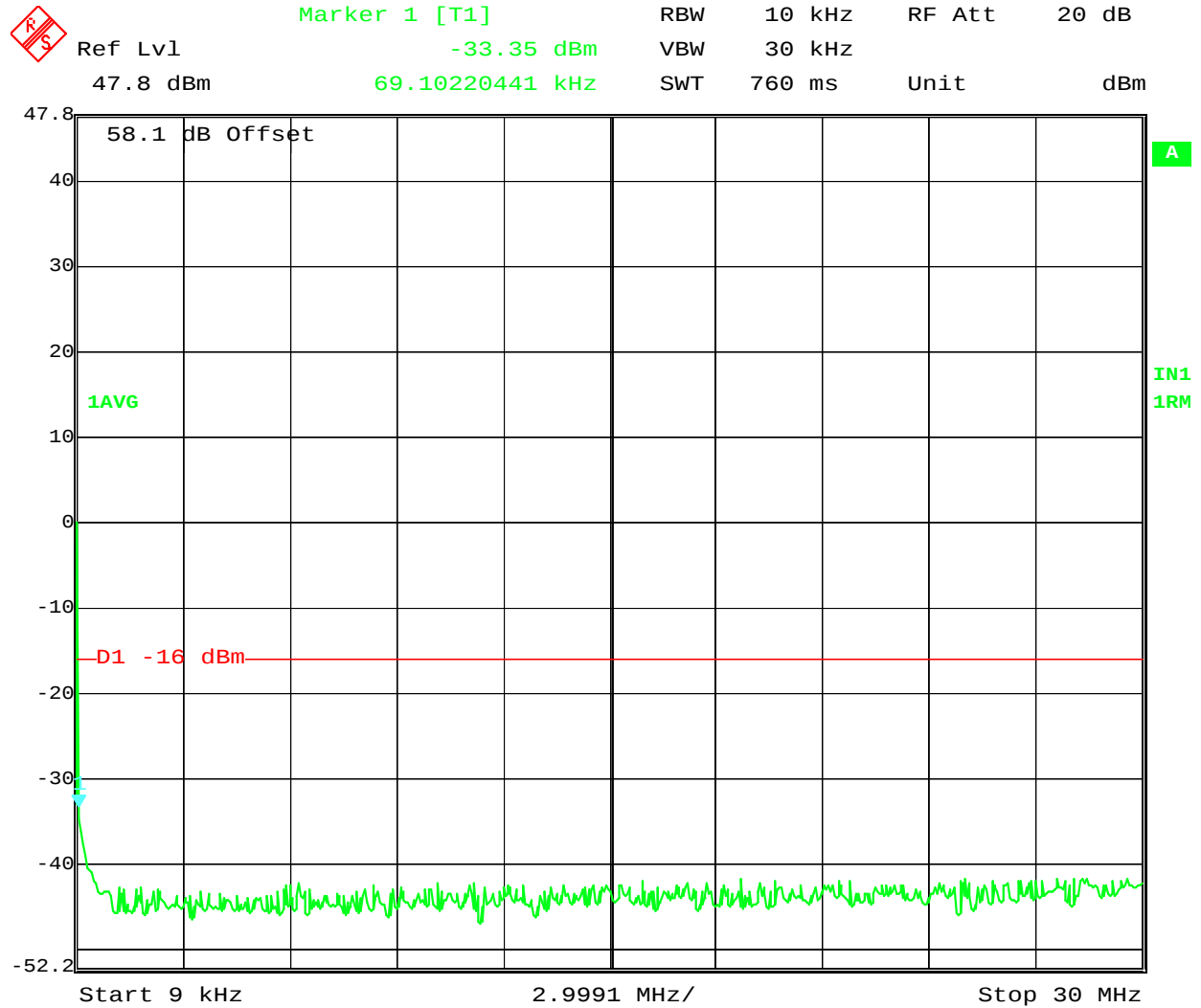
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150 MHz; 5+10MHz BW; PWR:120W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 08:04:24



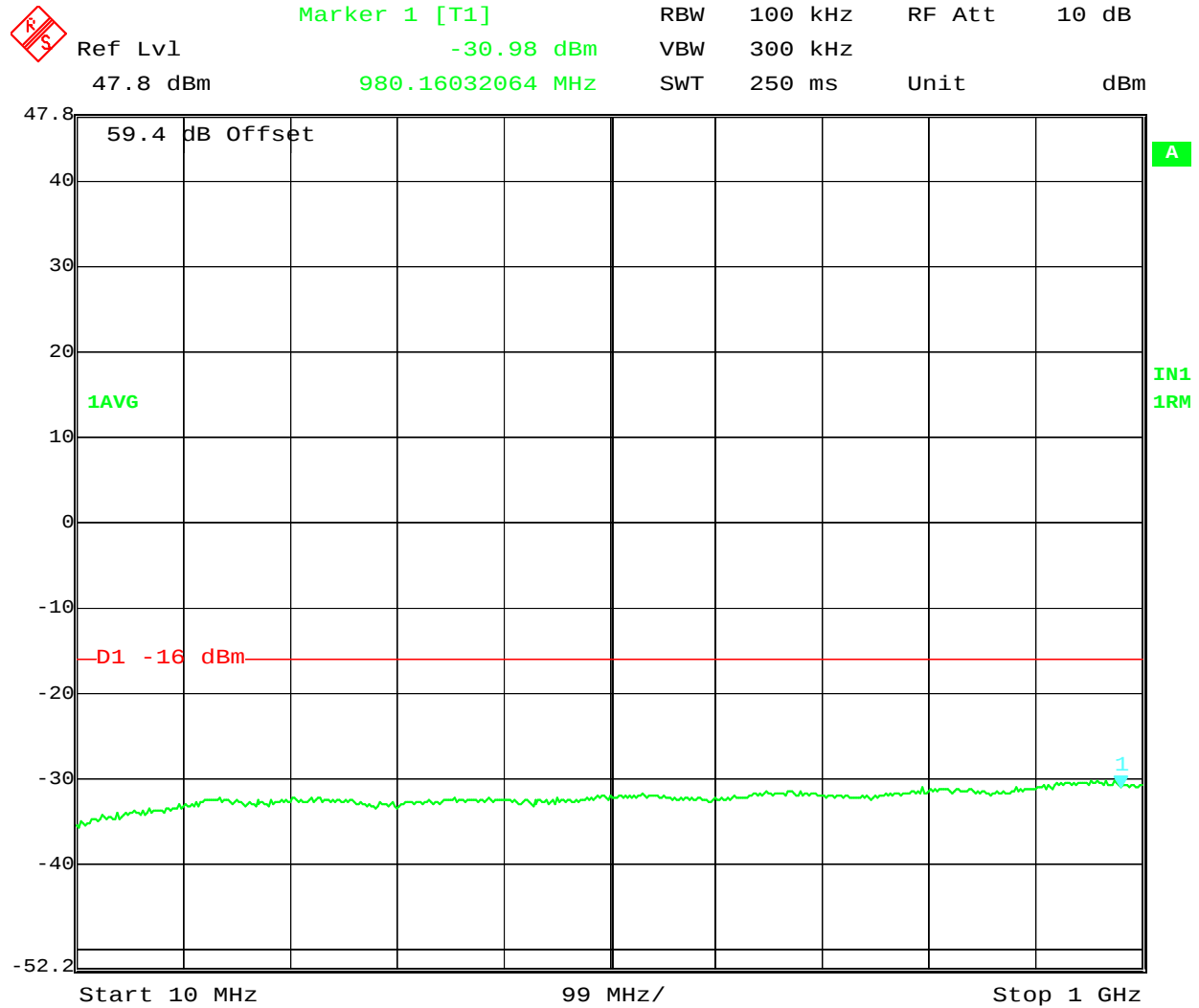
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 2C; BLK C+F; 2132.5+2150MHz; 5+10MHz BW; PWR:120W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 4.SEP.2013 08:05:03

Transmit Port
Antenna Conducted Spurious Emissions

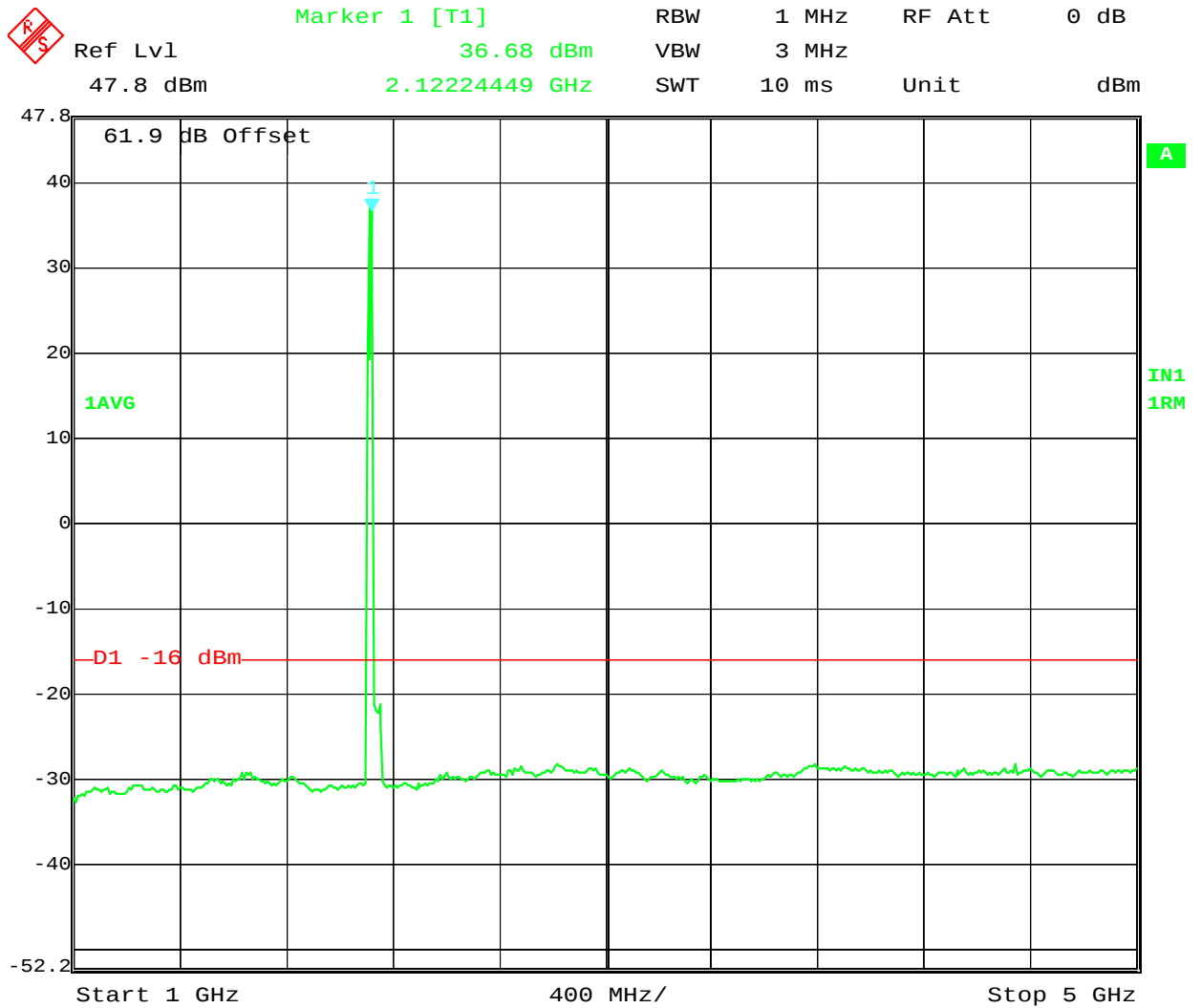
Block: A+B
20 MHz Bandwidth (2110 – 2130 MHz)
2x60 watts (MIMO)
QPSK Modulation



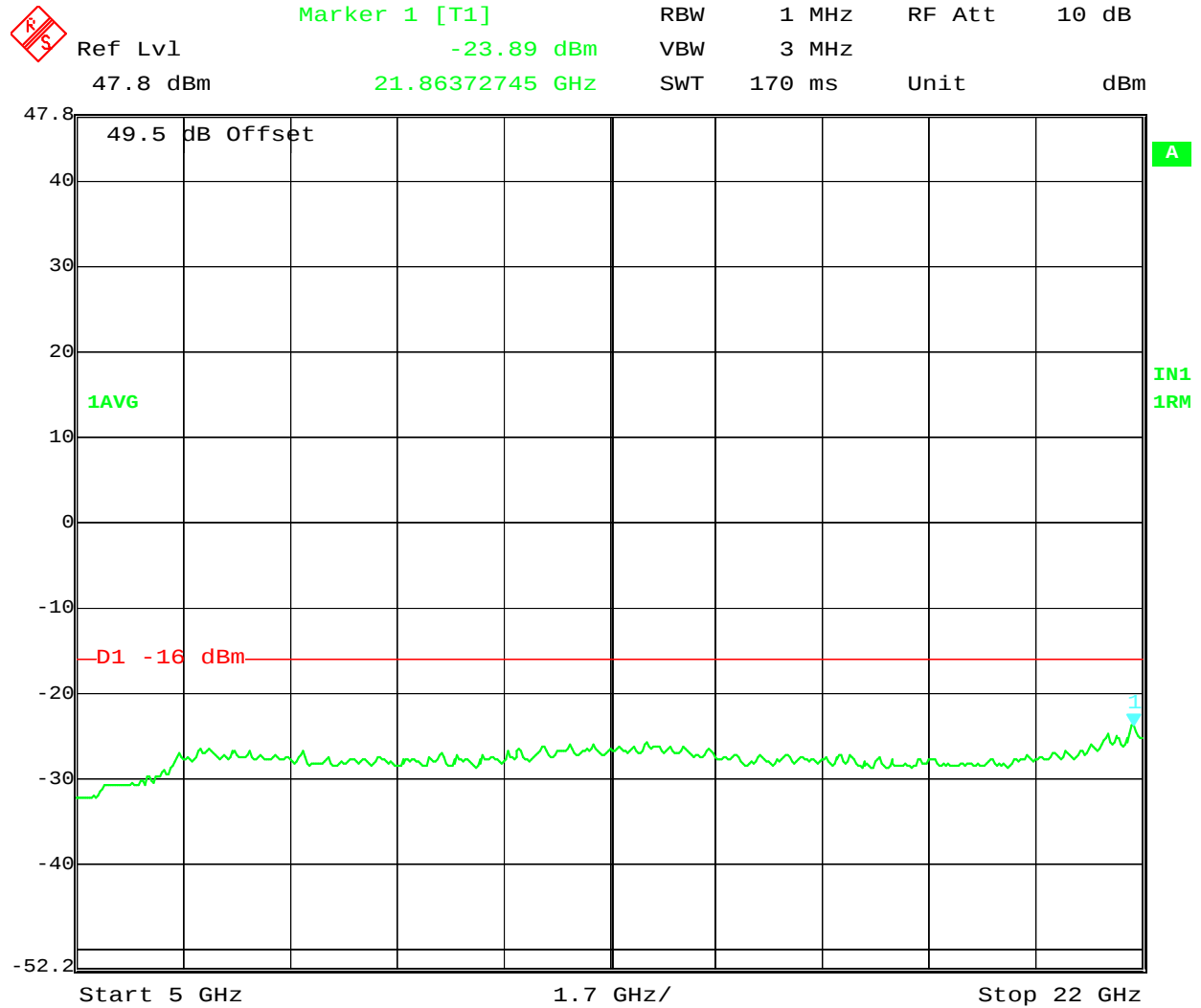
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 11:39:30



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 11:40:01



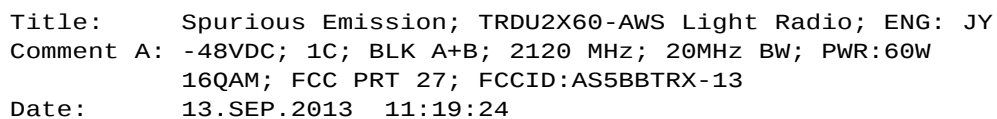
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 11:40:35

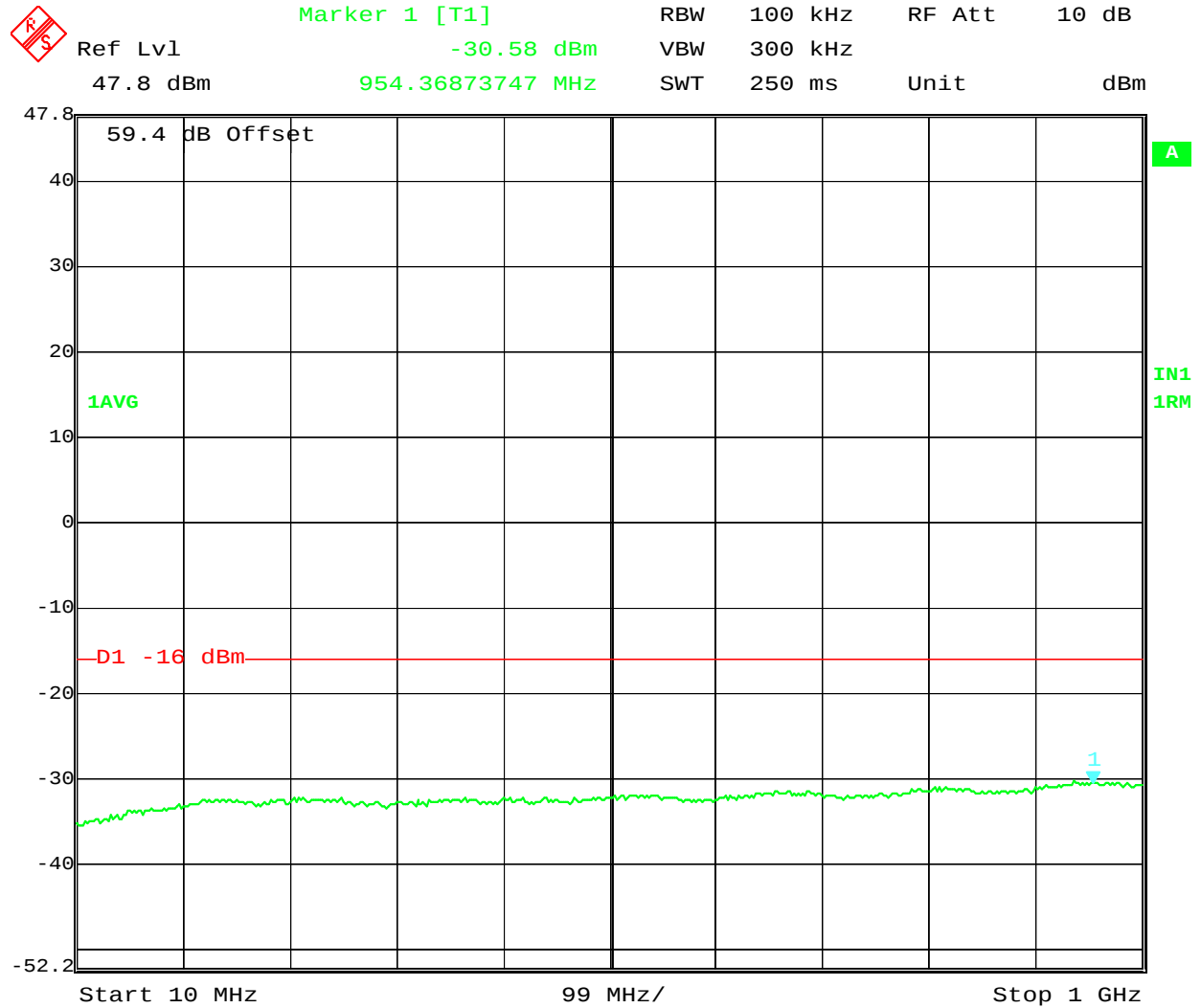


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 11:41:10

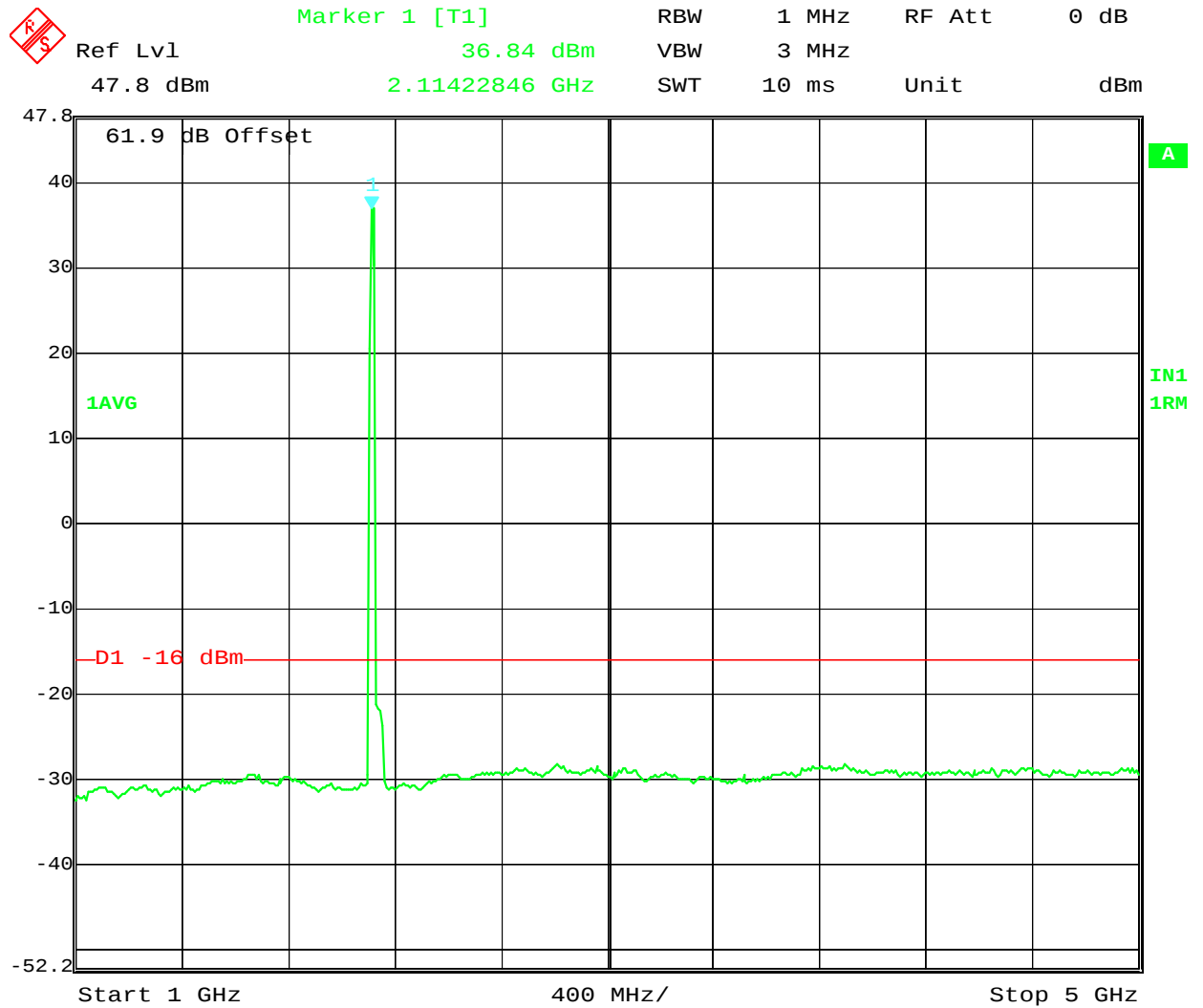
**Transmit Port
Antenna Conducted Spurious Emissions**

**Block: A+B
20 MHz Bandwidth (2110 – 2130 MHz)
2x60 watts (MIMO)
16QAM Modulation**

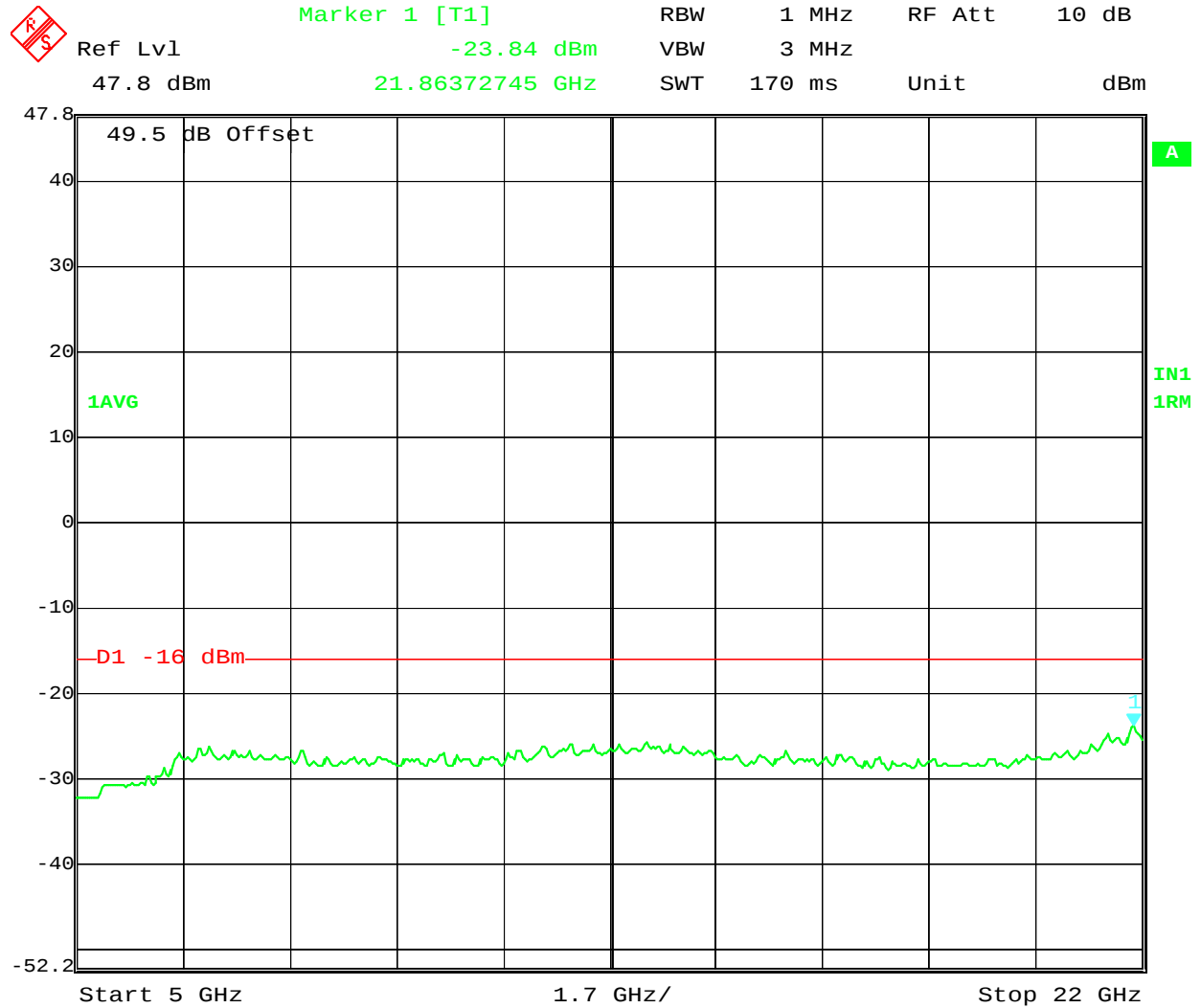




Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 11:20:01



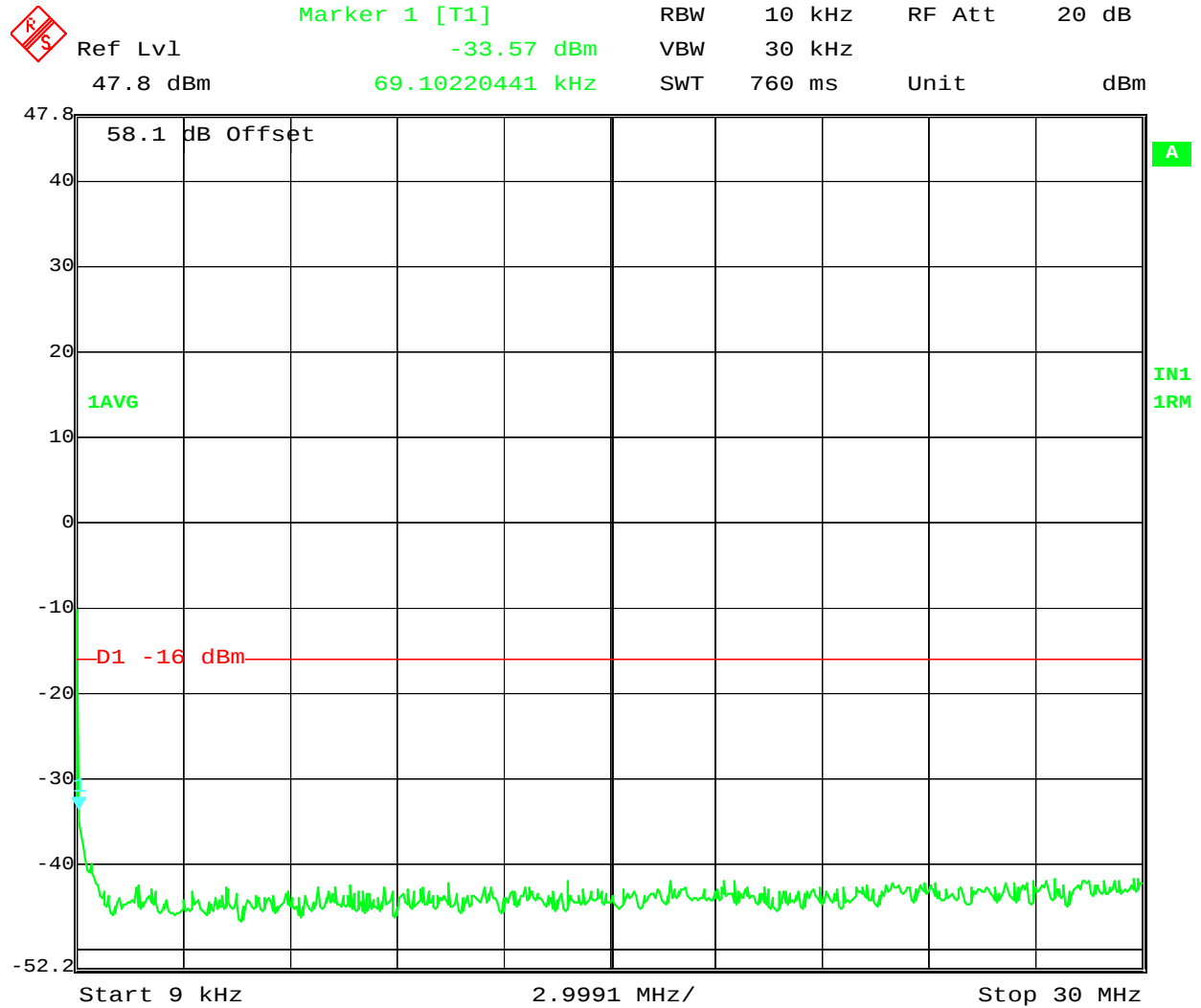
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 11:20:37



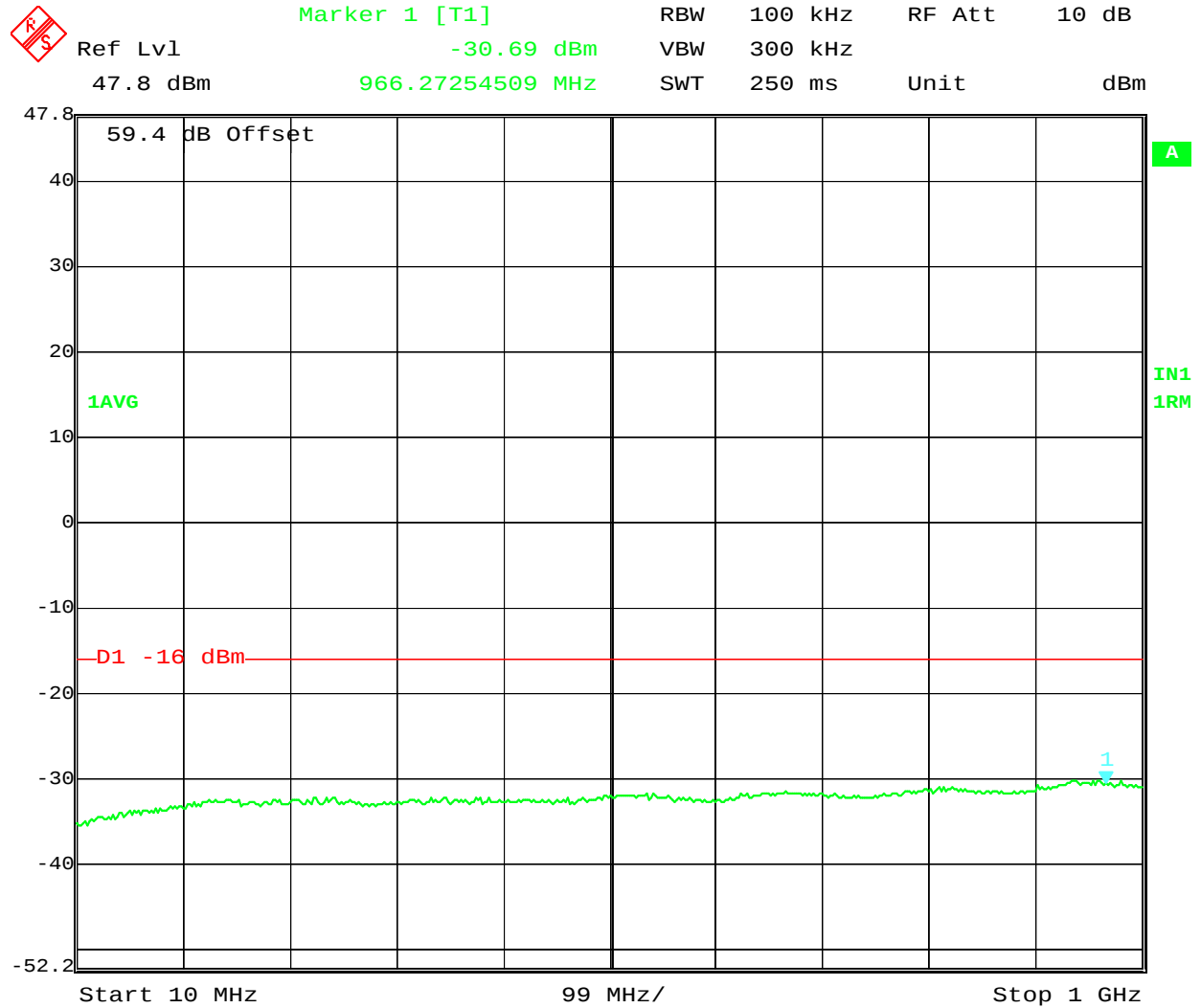
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 11:21:10

Transmit Port
Antenna Conducted Spurious Emissions

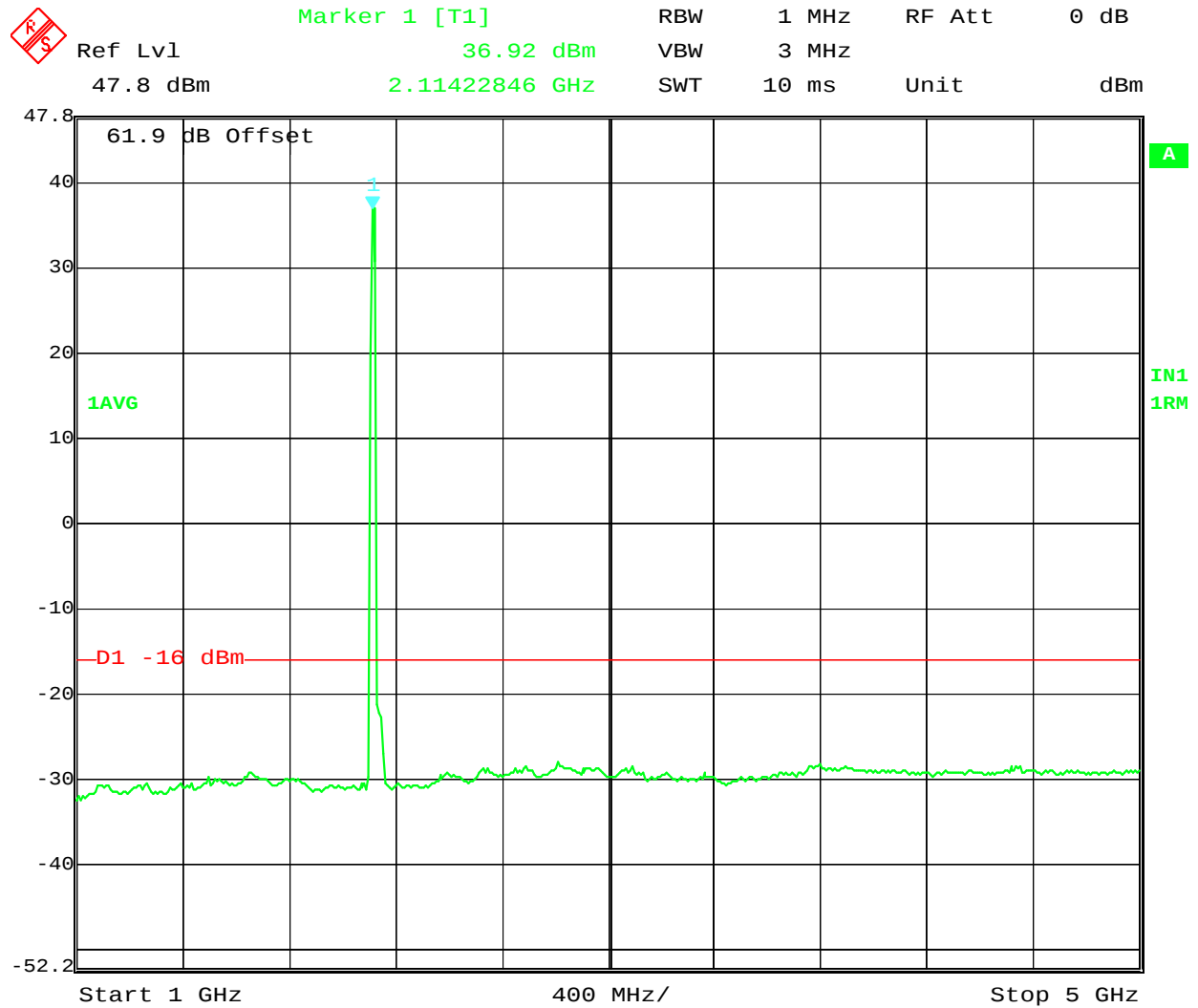
Block: A+B
20 MHz Bandwidth (2110 – 2130 MHz)
2x60 watts (MIMO)
64QAM Modulation



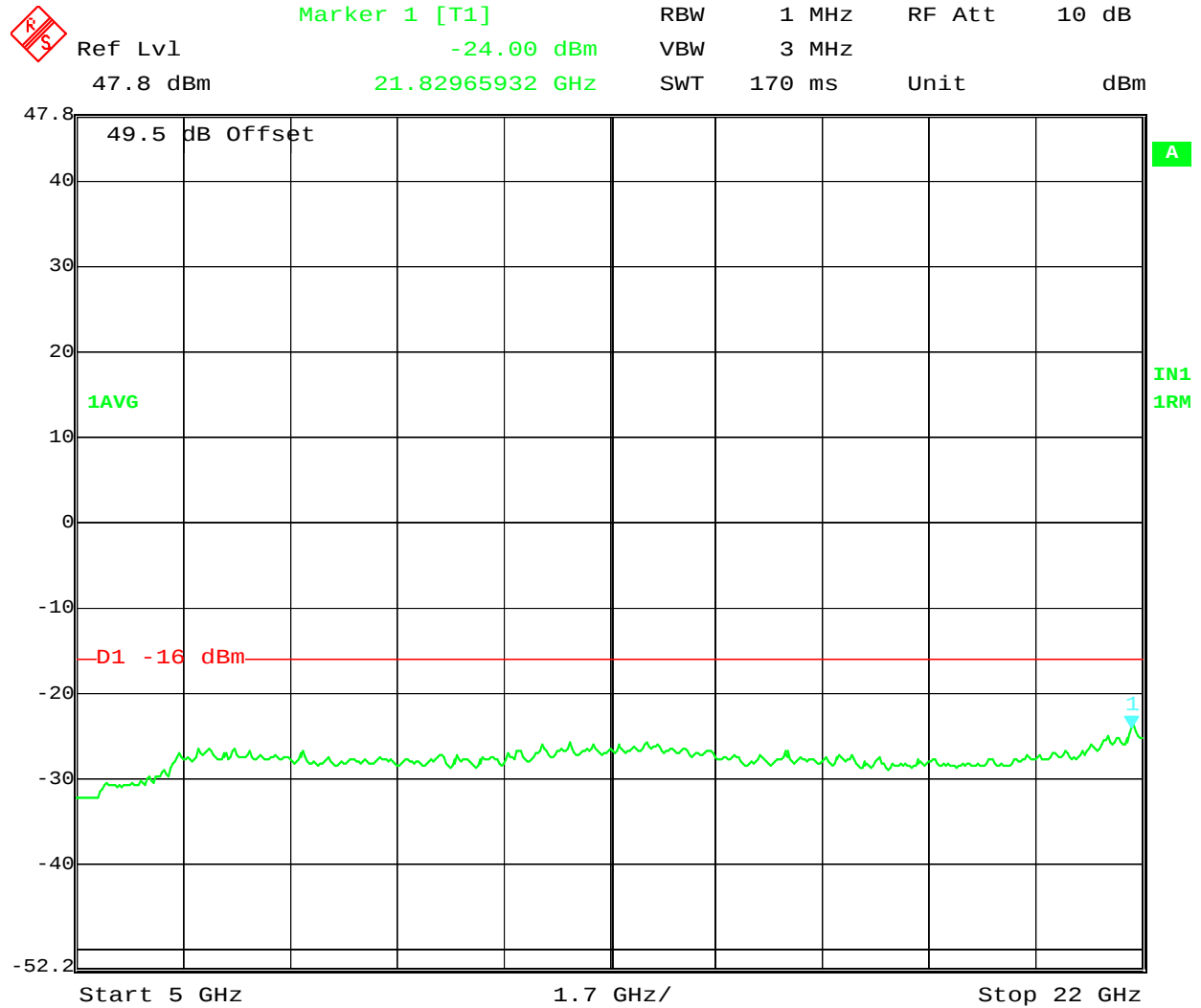
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 10:52:31



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 10:51:52



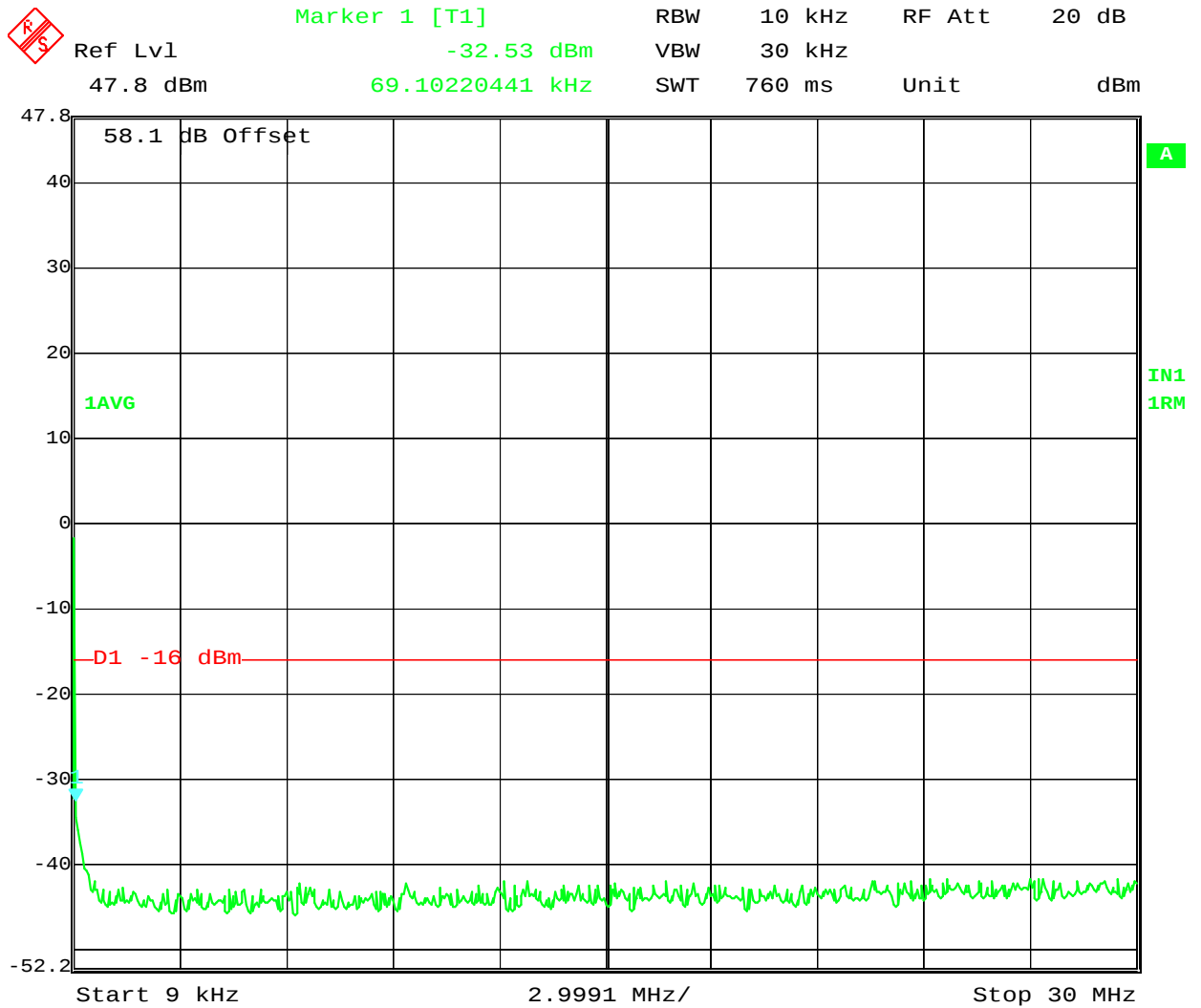
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 10:53:15



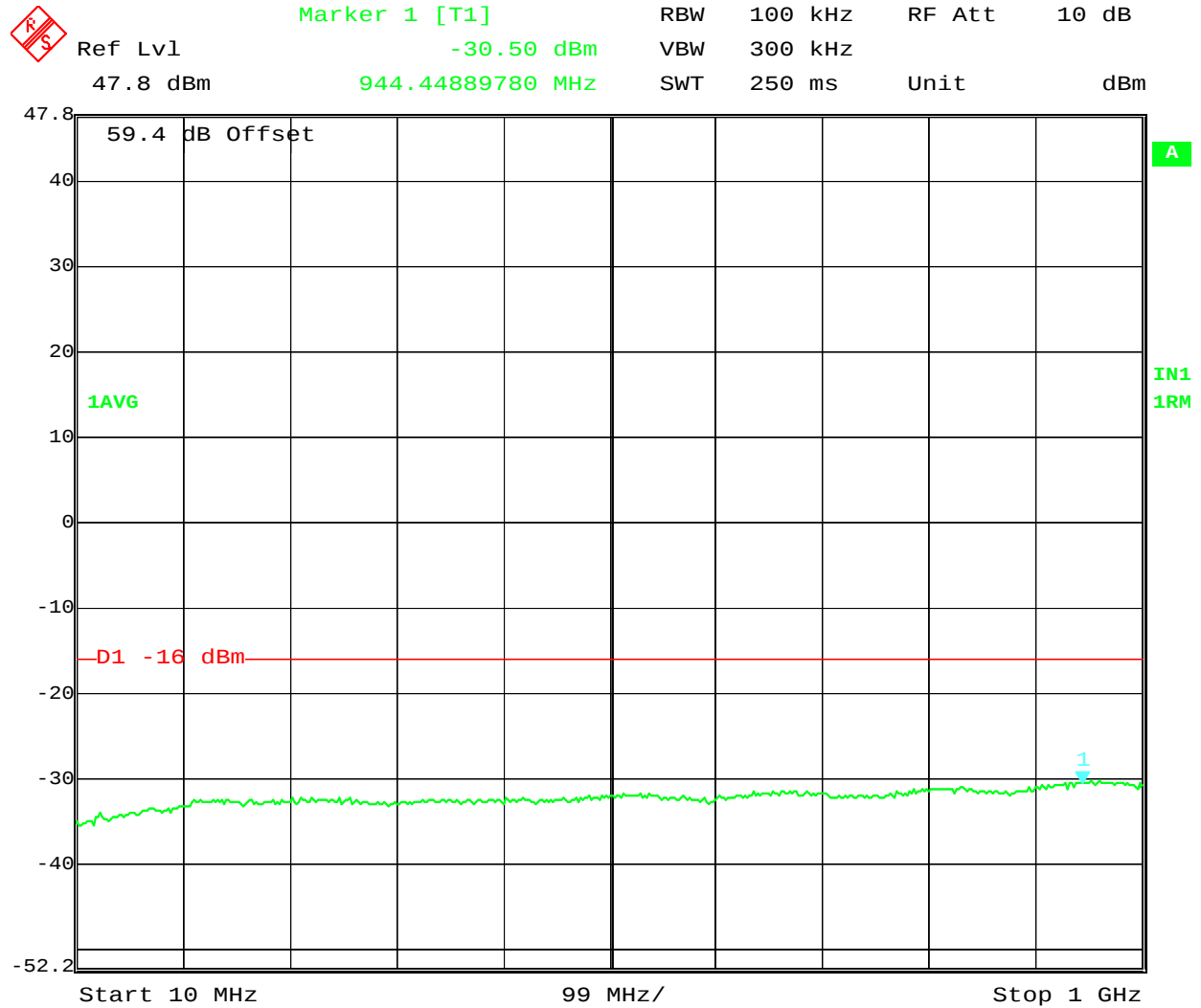
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B; 2120 MHz; 20MHz BW; PWR:60W
64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 10:54:03

Transmit Port
Antenna Conducted Spurious Emissions

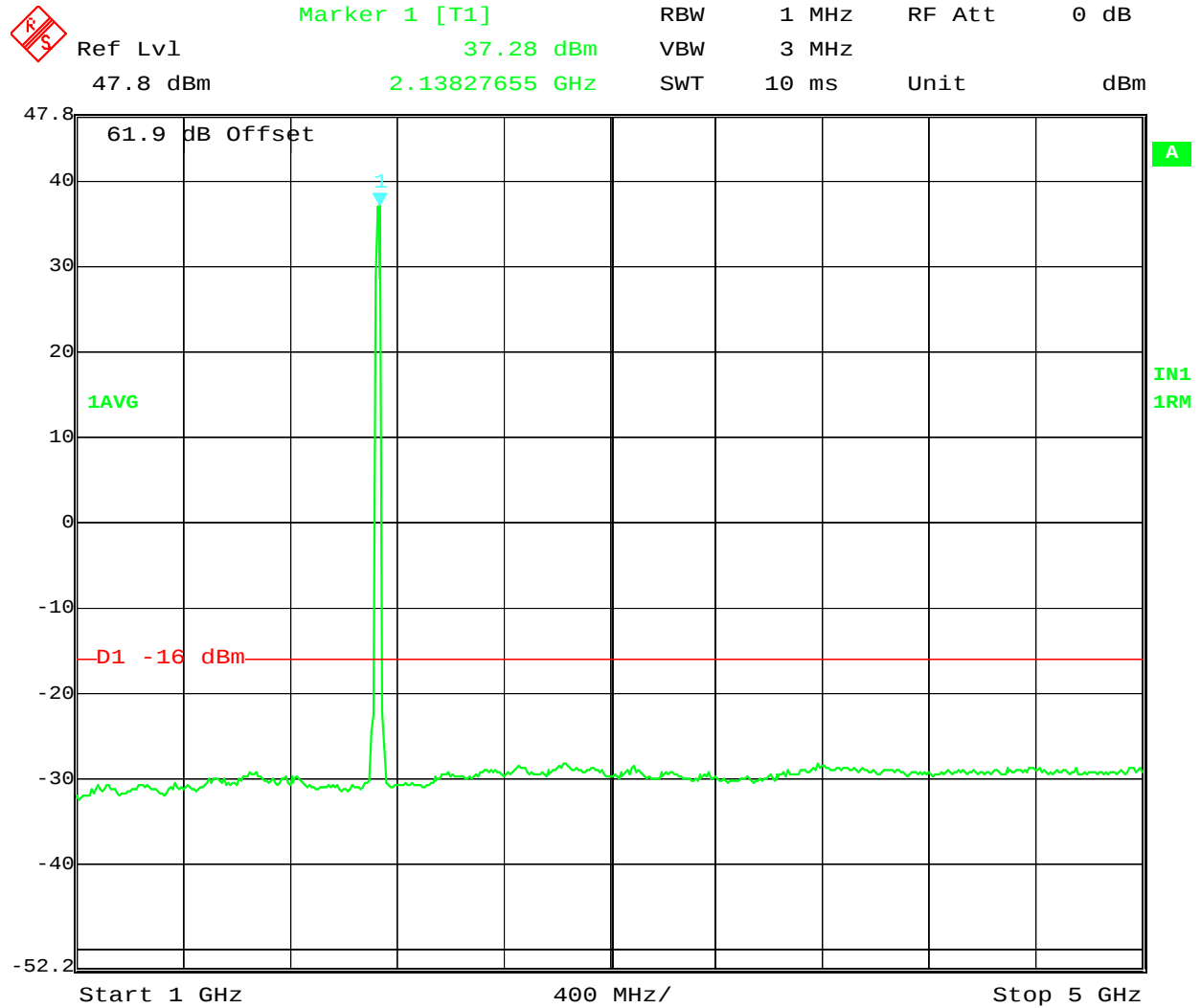
Block: B2+C+D+E
20 MHz Bandwidth (2125 – 2145 MHz)
2x60 watts (MIMO)
QPSK Modulation



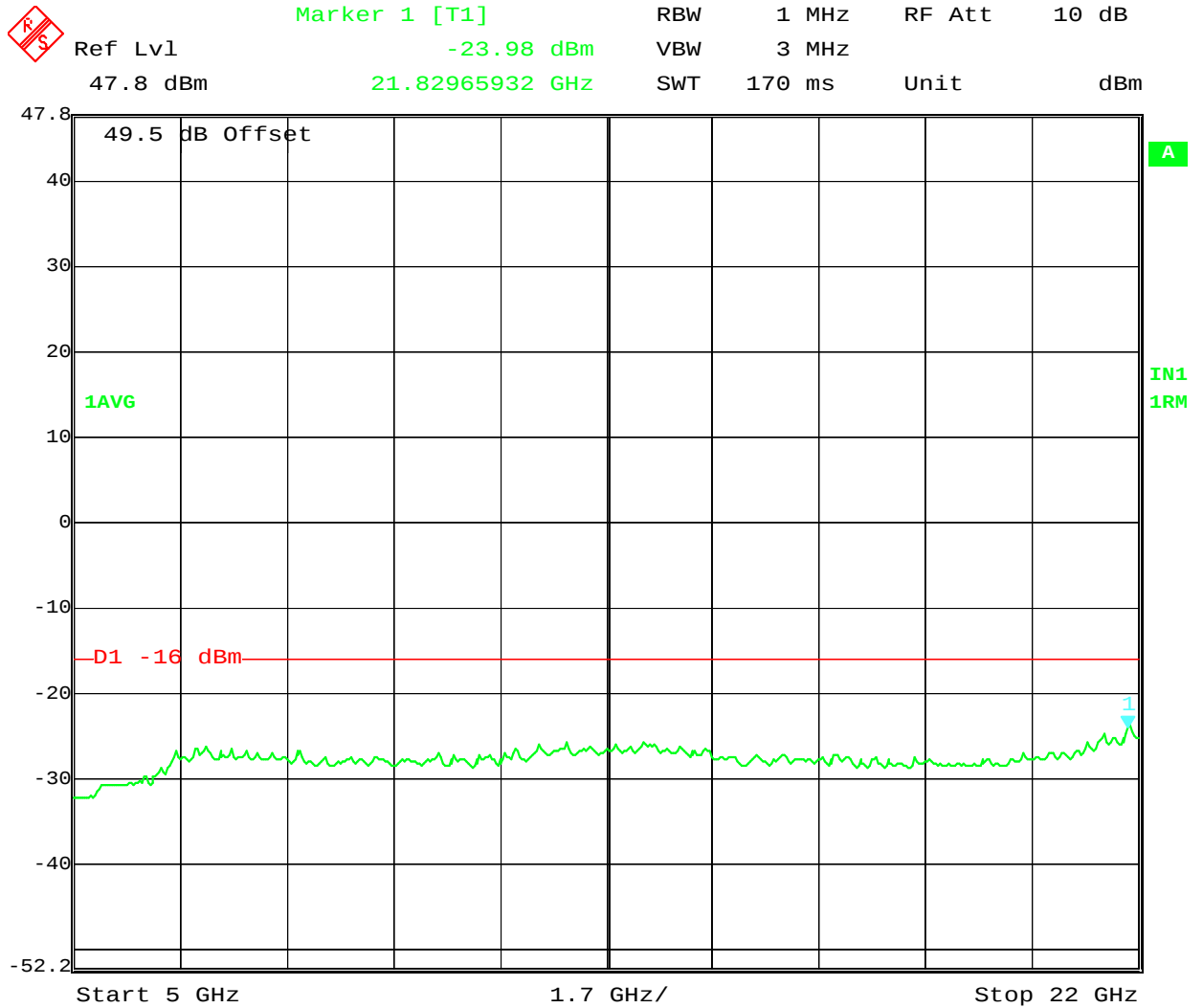
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 03:49:27



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 03:49:56



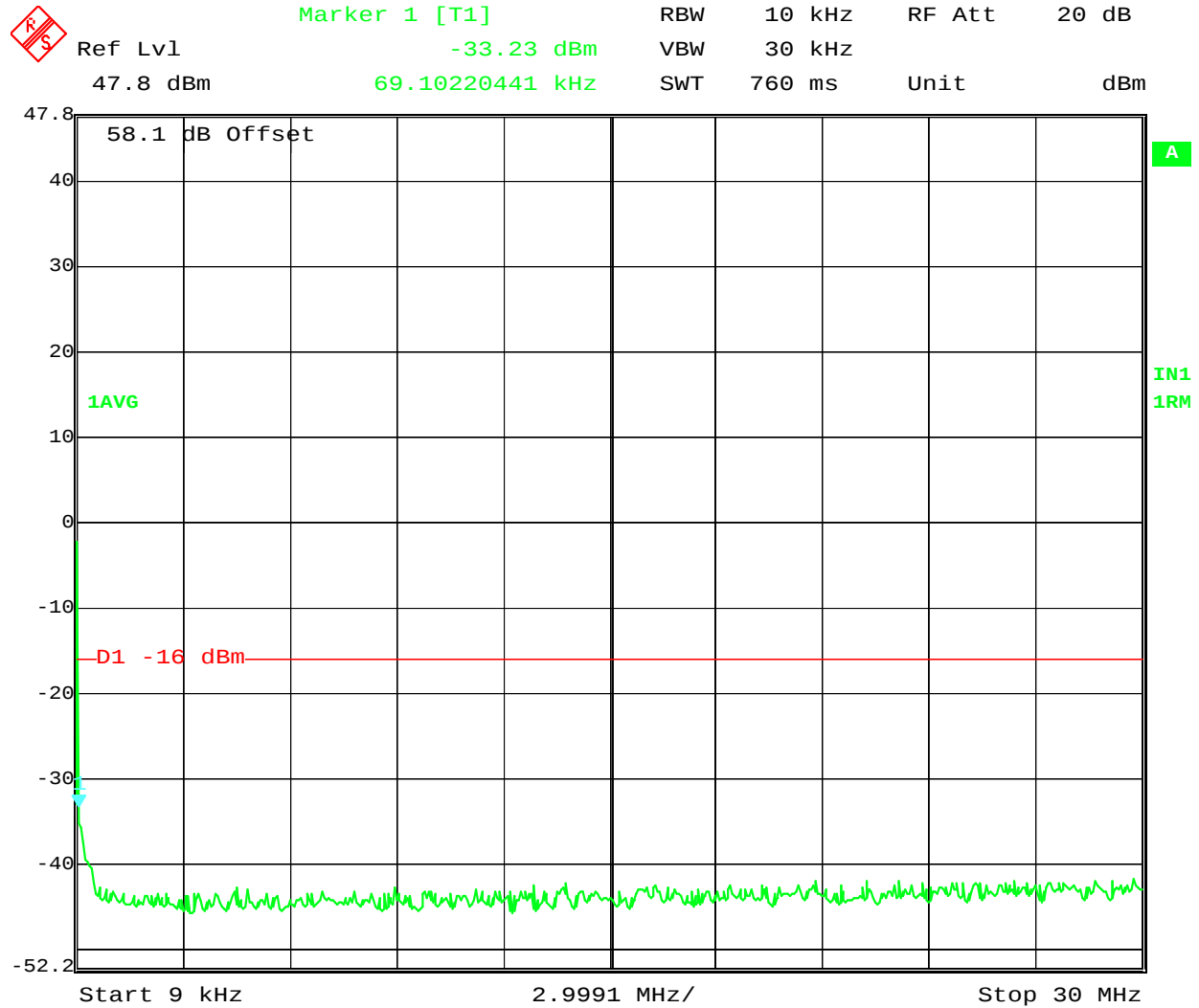
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 03:51:13



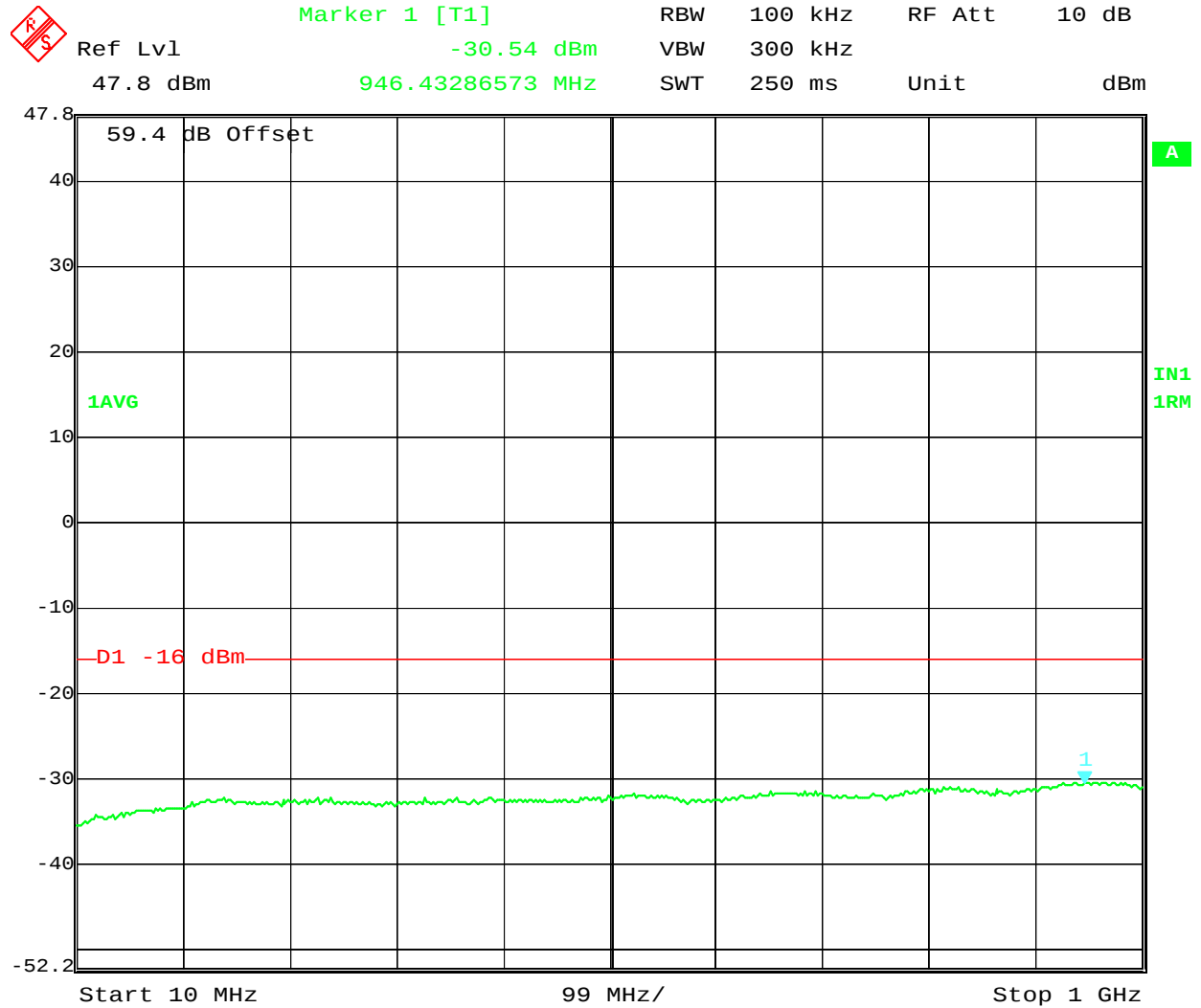
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 03:51:41

Transmit Port
Antenna Conducted Spurious Emissions

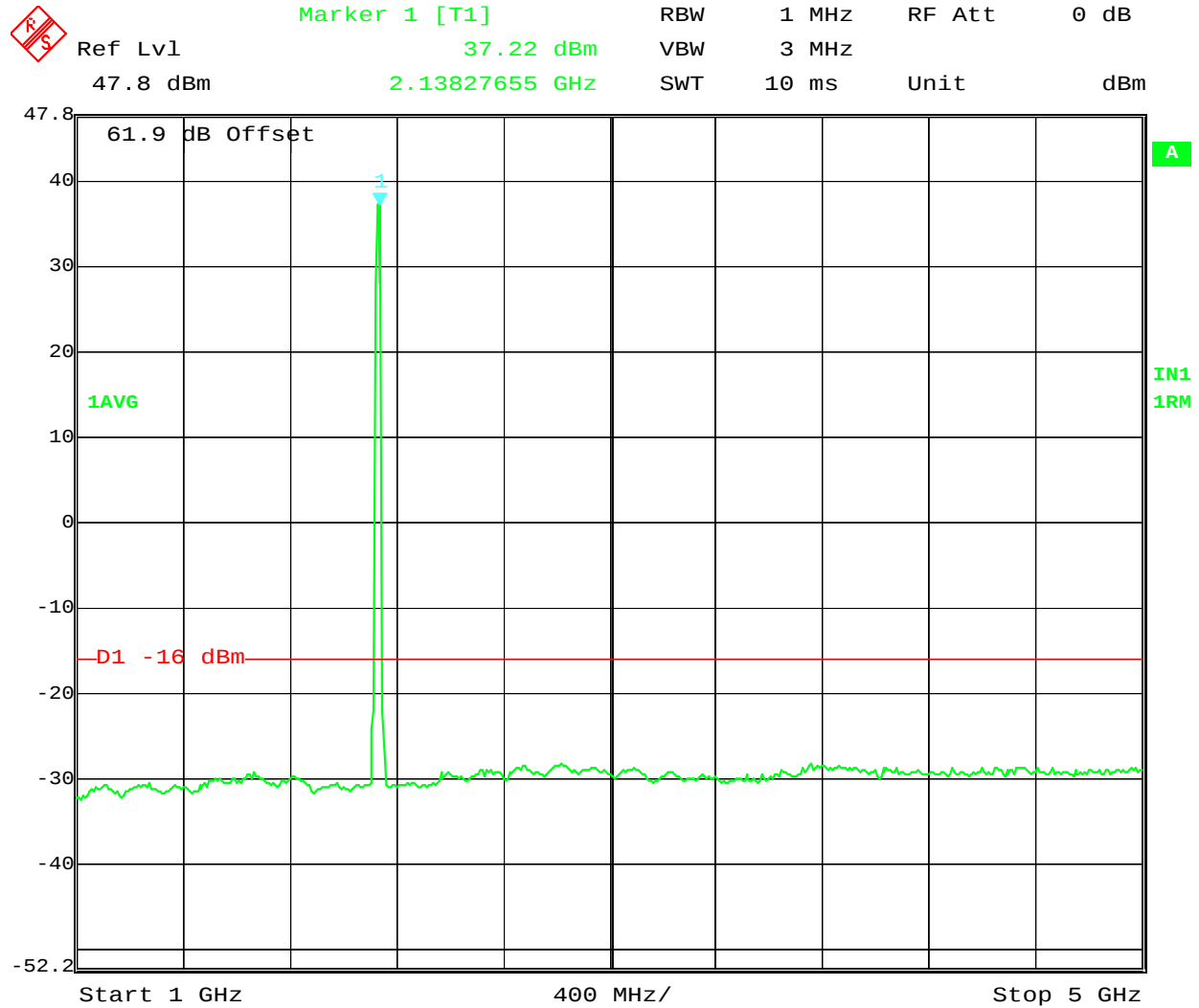
Block: B2+C+D+E
20 MHz Bandwidth (2125 – 2145 MHz)
2x60 watts (MIMO)
16QAM Modulation



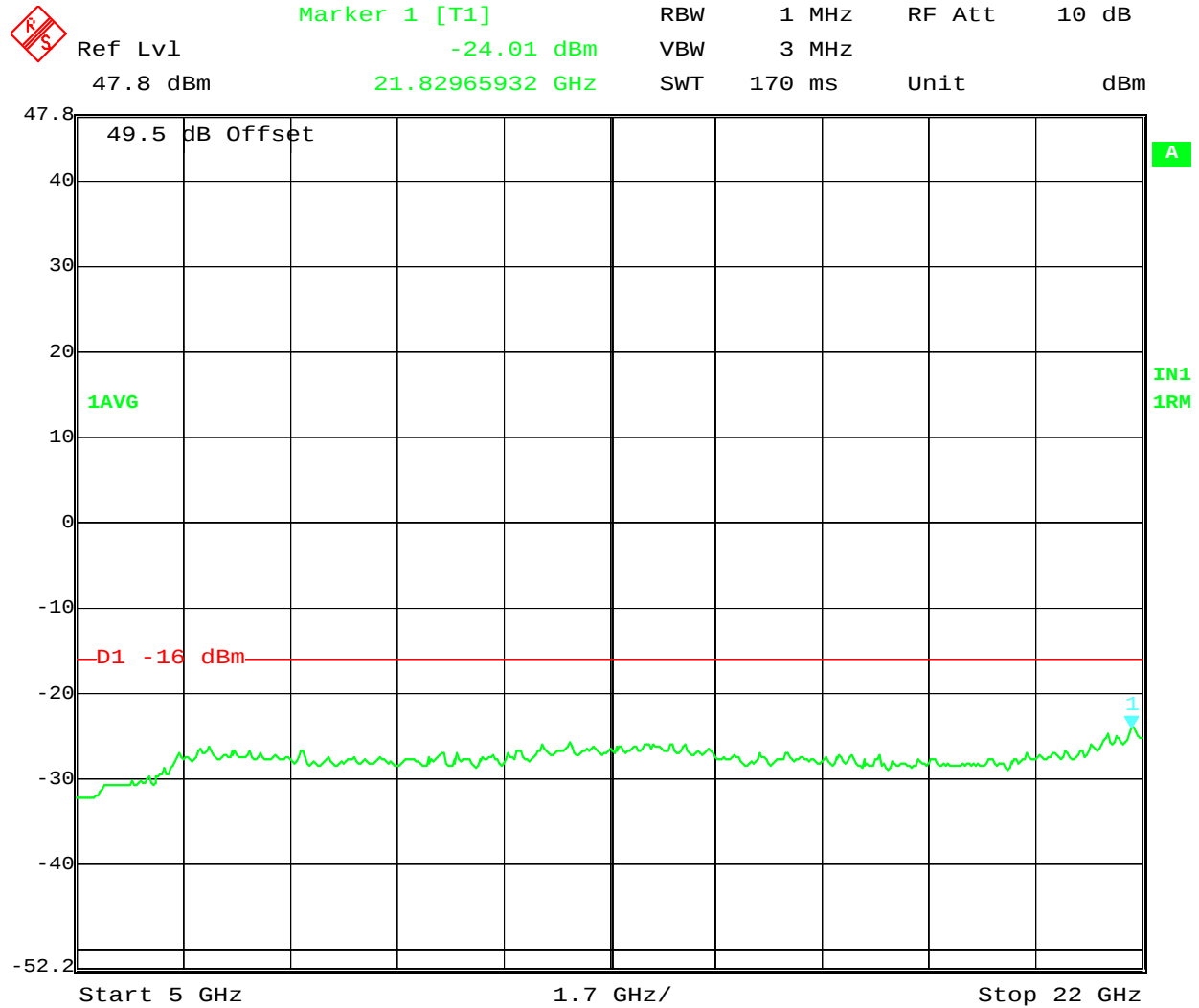
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:22:27



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:23:07



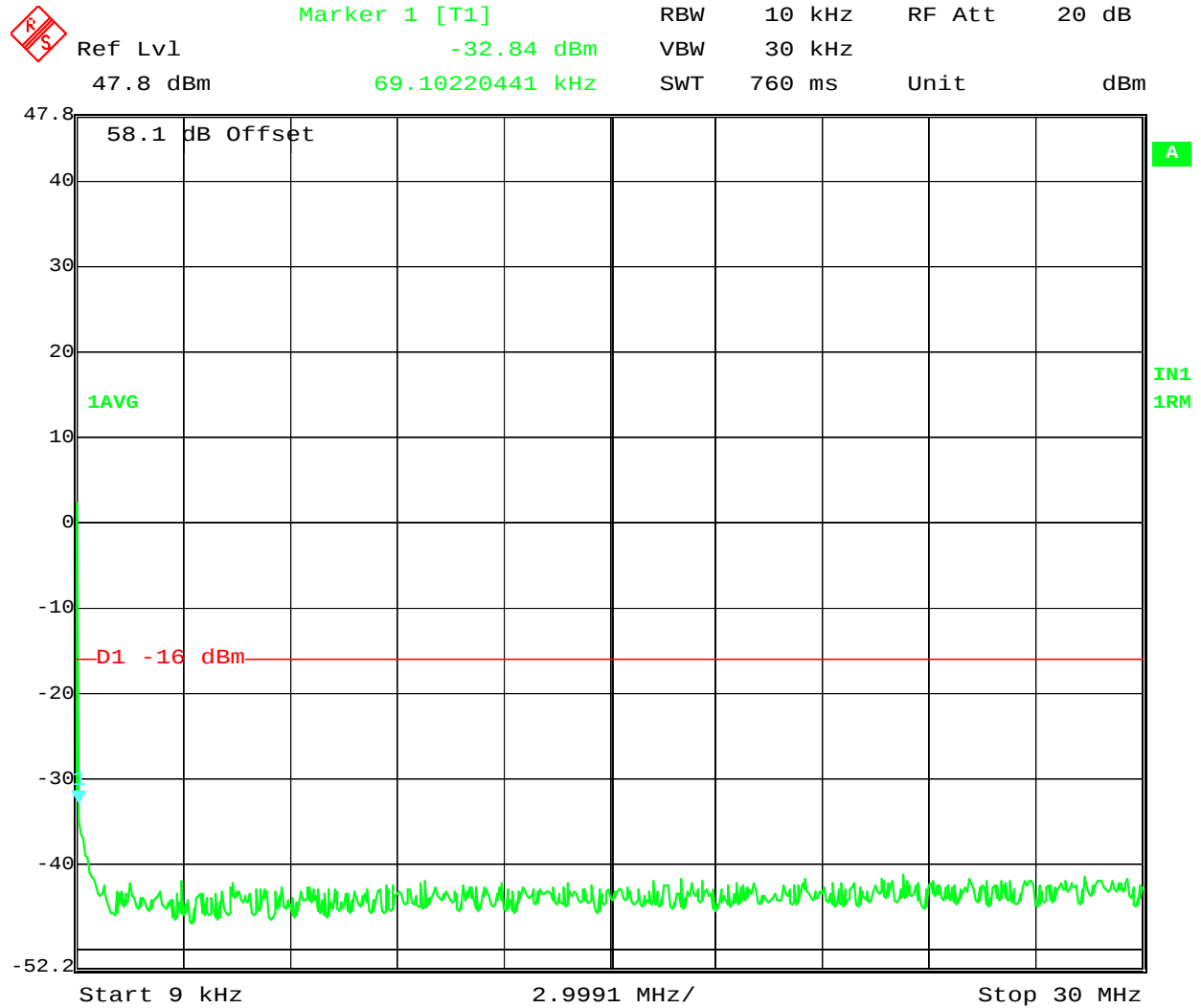
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:23:46



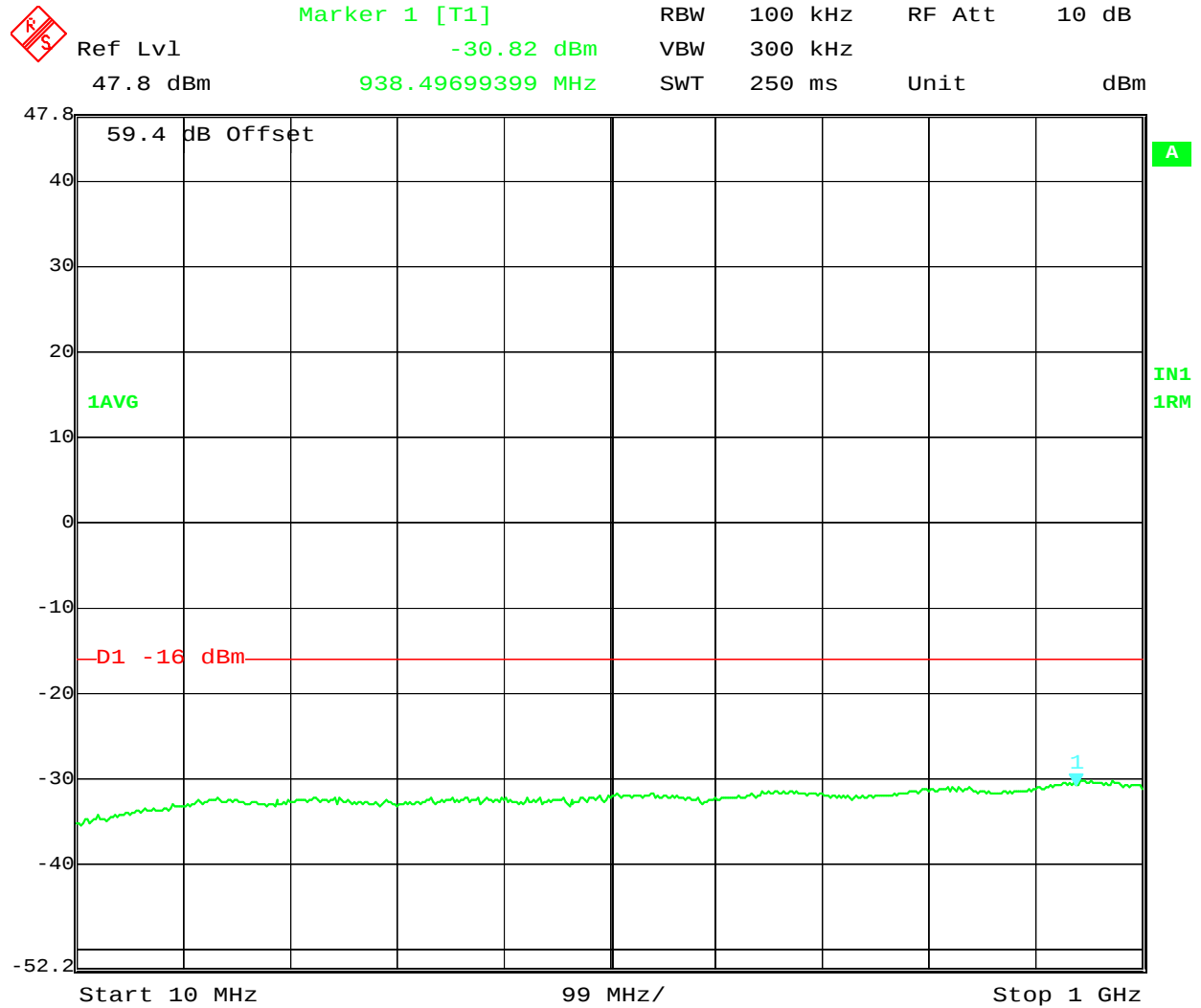
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:24:22

**Transmit Port
Antenna Conducted Spurious Emissions**

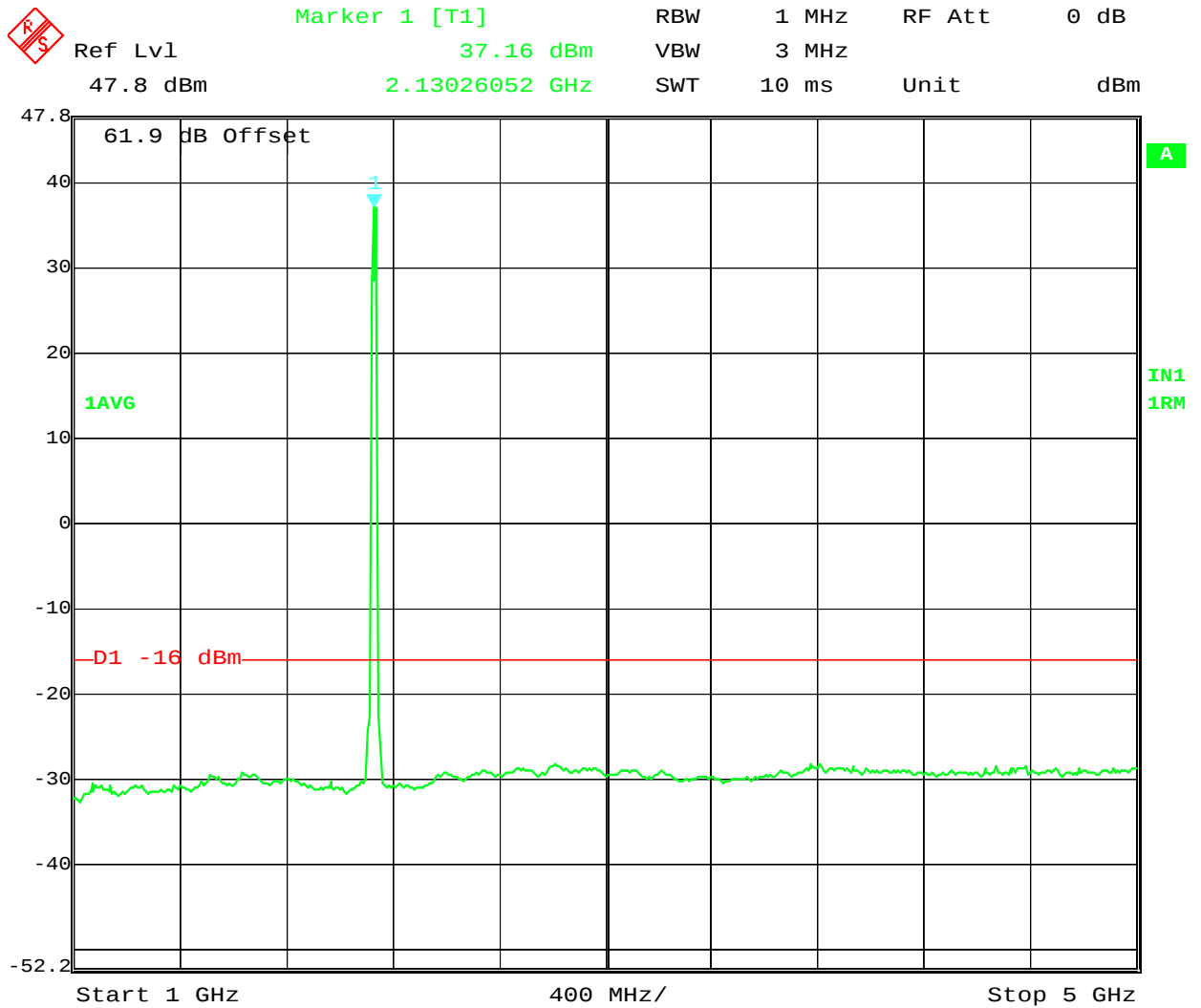
**Block: B2+C+D+E
20 MHz Bandwidth (2125 – 2145 MHz)
2x60 watts (MIMO)
64QAM Modulation**



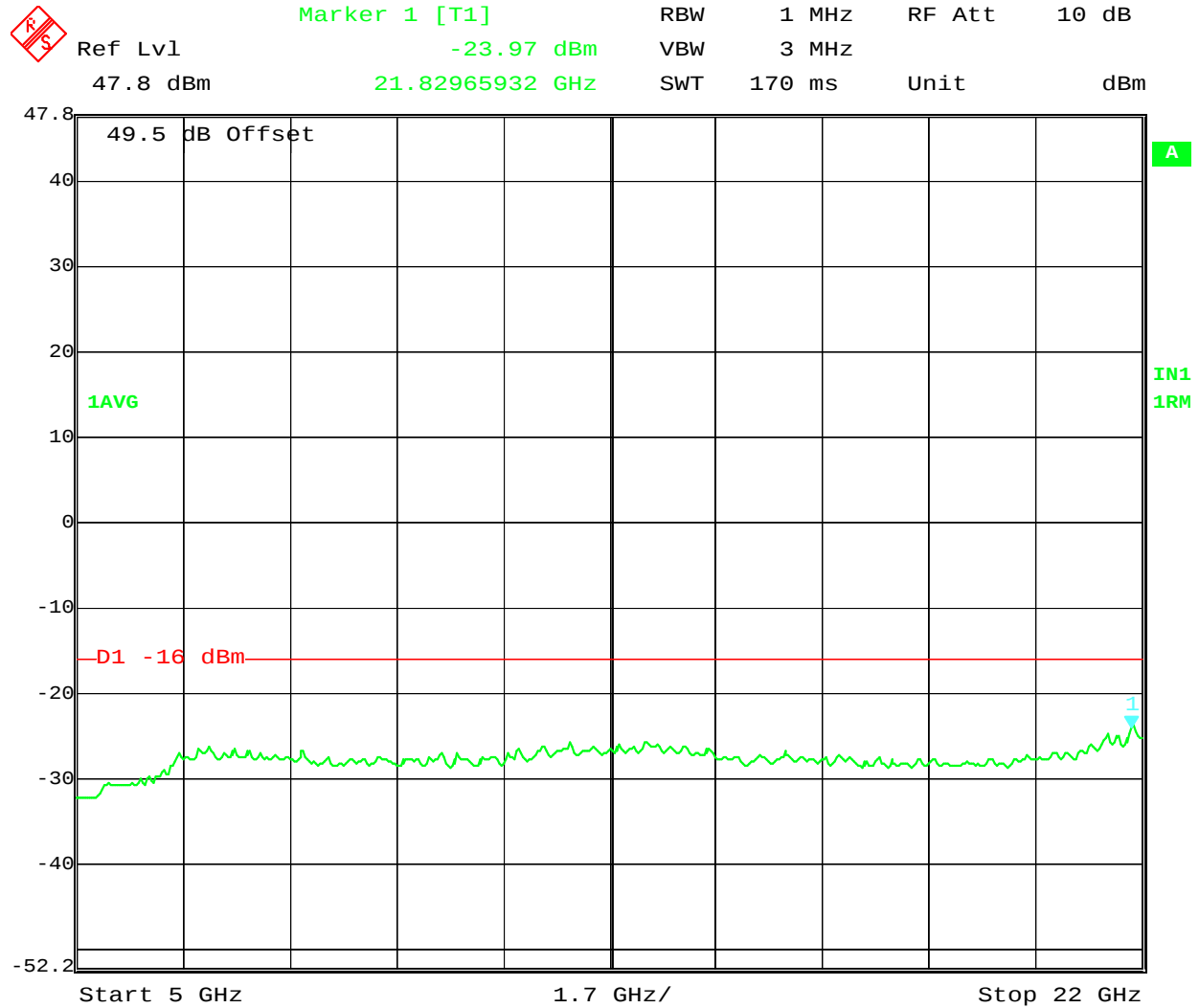
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 06:34:55



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:35:29



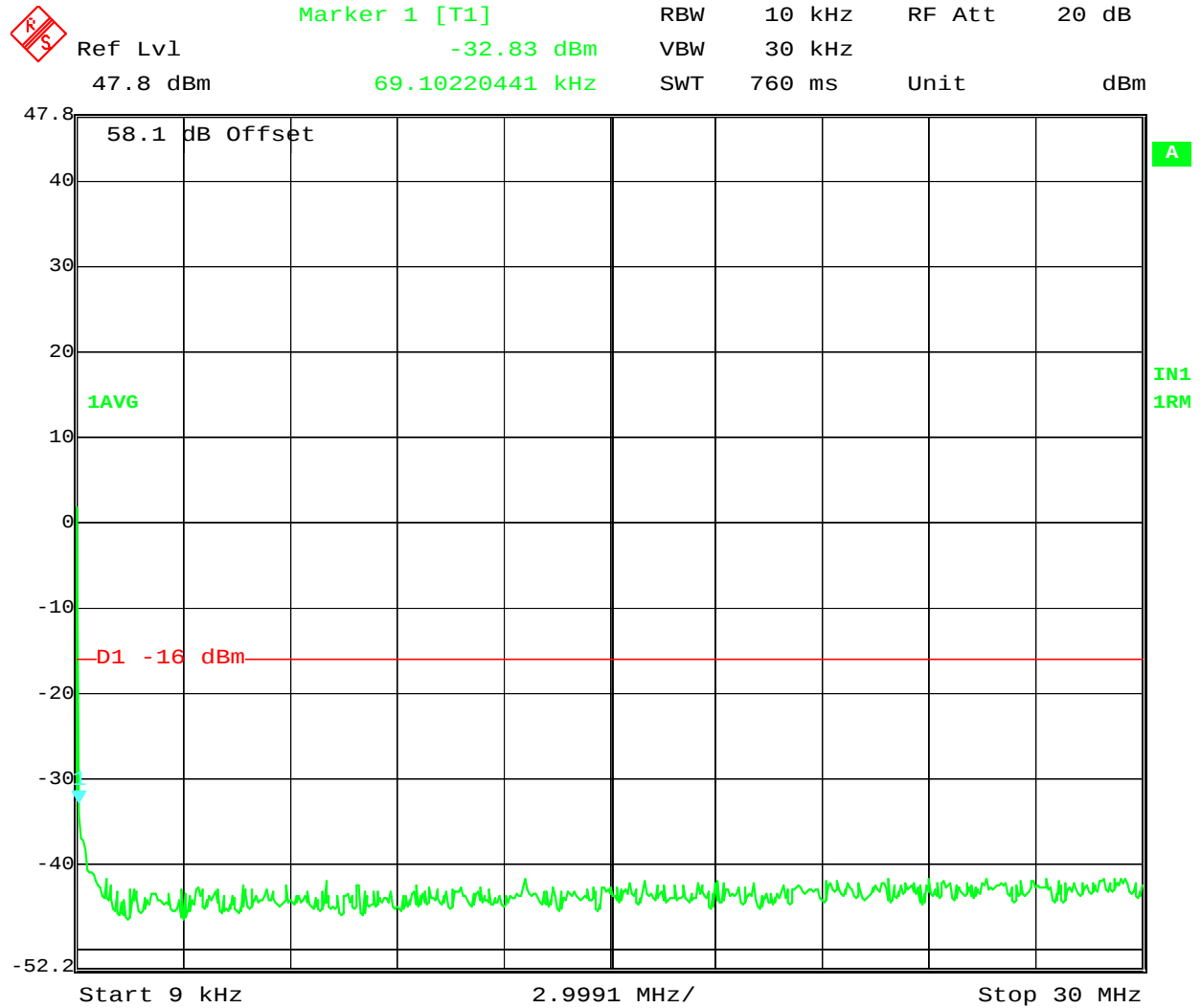
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 06:36:01



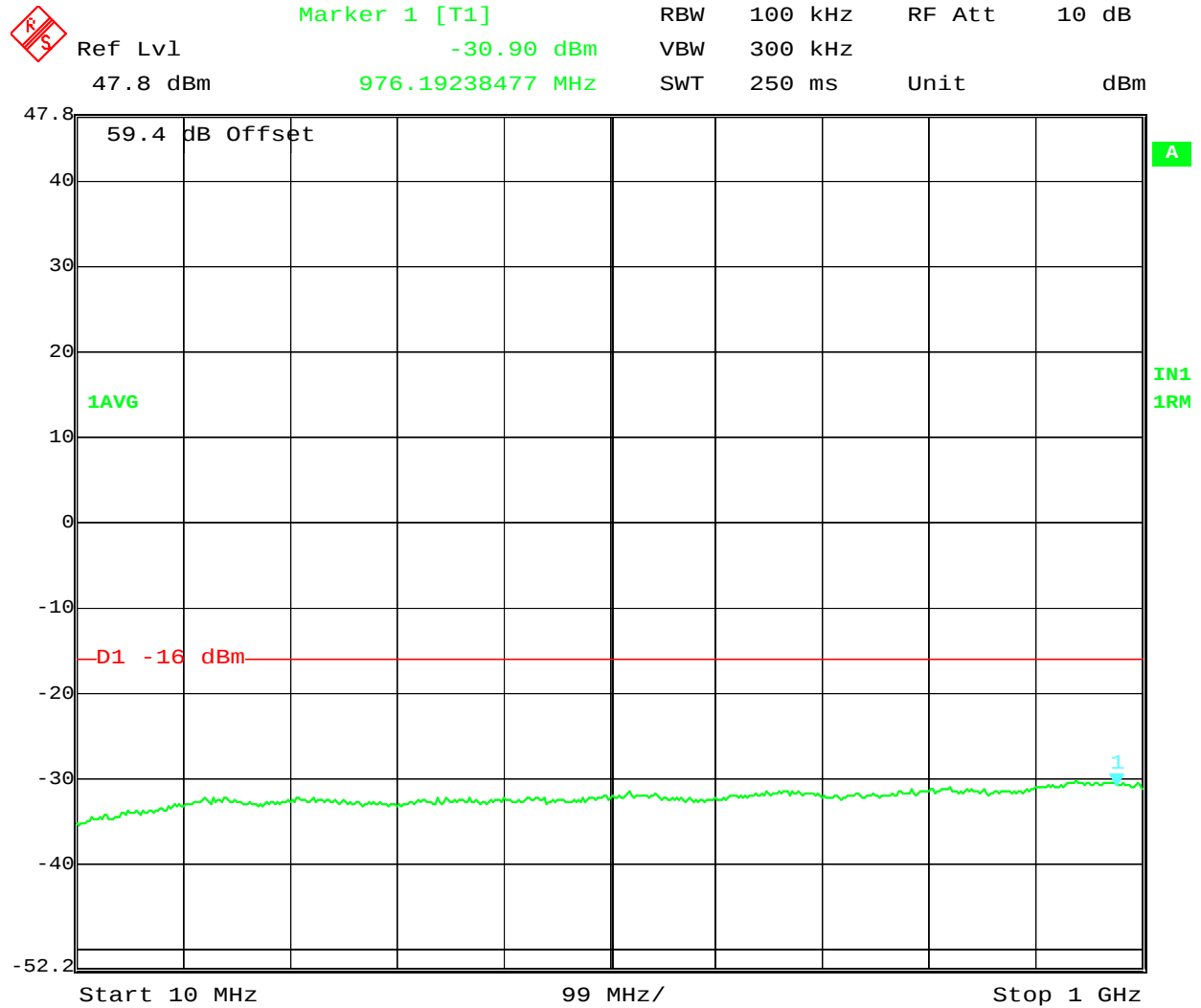
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B2+C+D+E; 2135 MHz; 20MHz BW; PWR:60W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:36:34

Transmit Port
Antenna Conducted Spurious Emissions

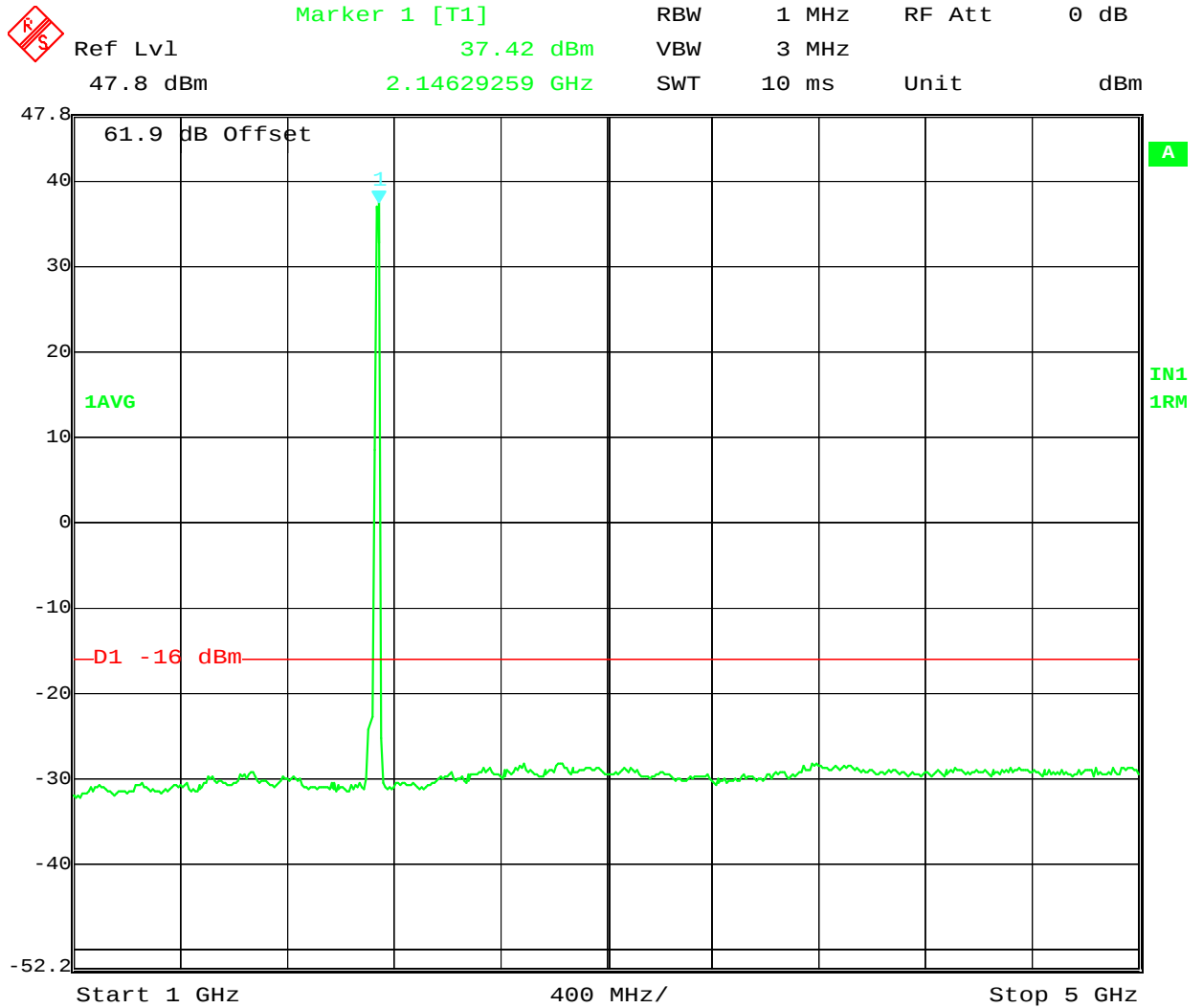
Block: D+E+F
20 MHz Bandwidth (2135 – 2155 MHz)
2x60 watts (MIMO)
QPSK Modulation



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 07:46:33



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 07:47:15

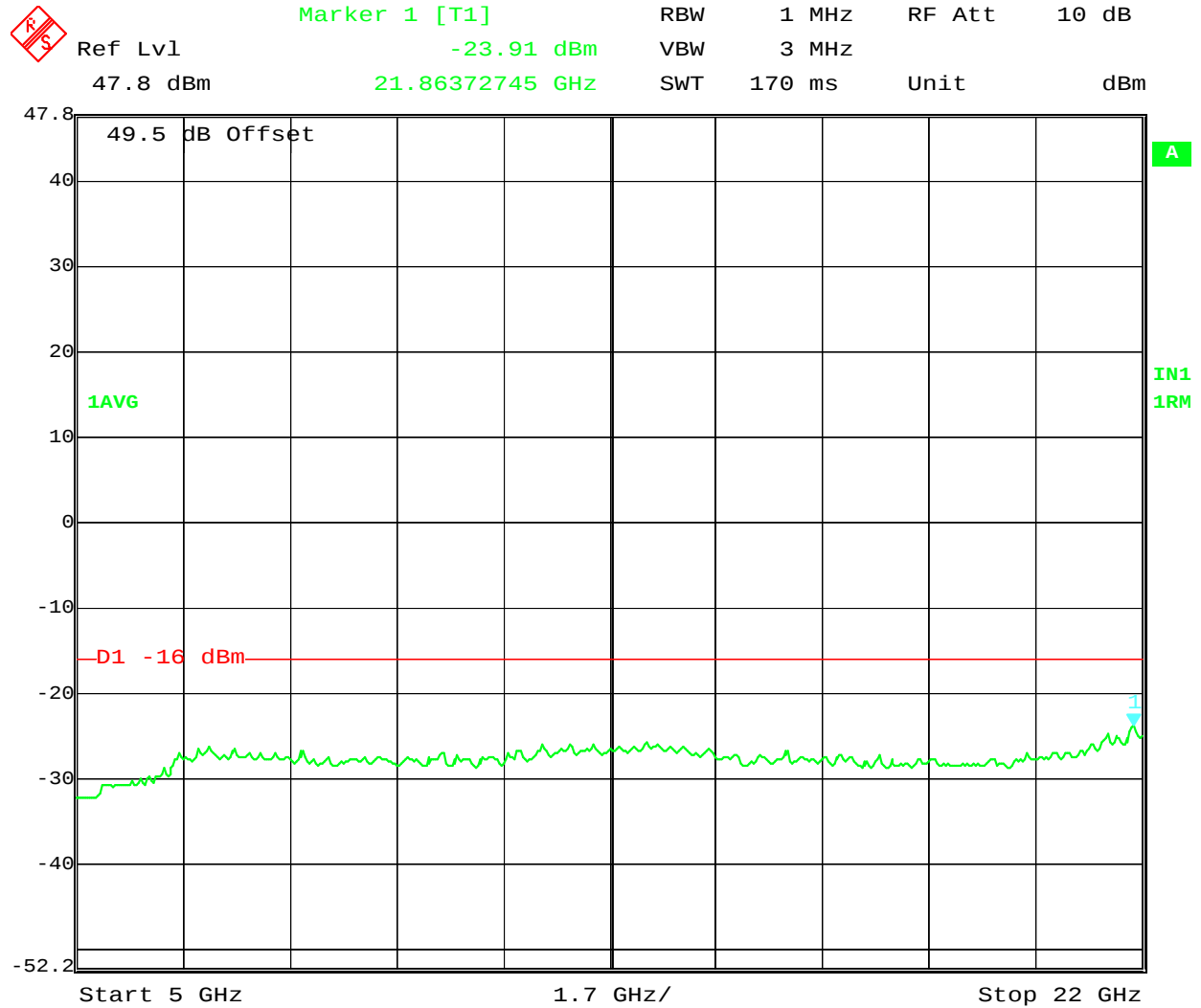


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W

QPSK; FCC PRT 27; FCCID:AS5BBTRX-13

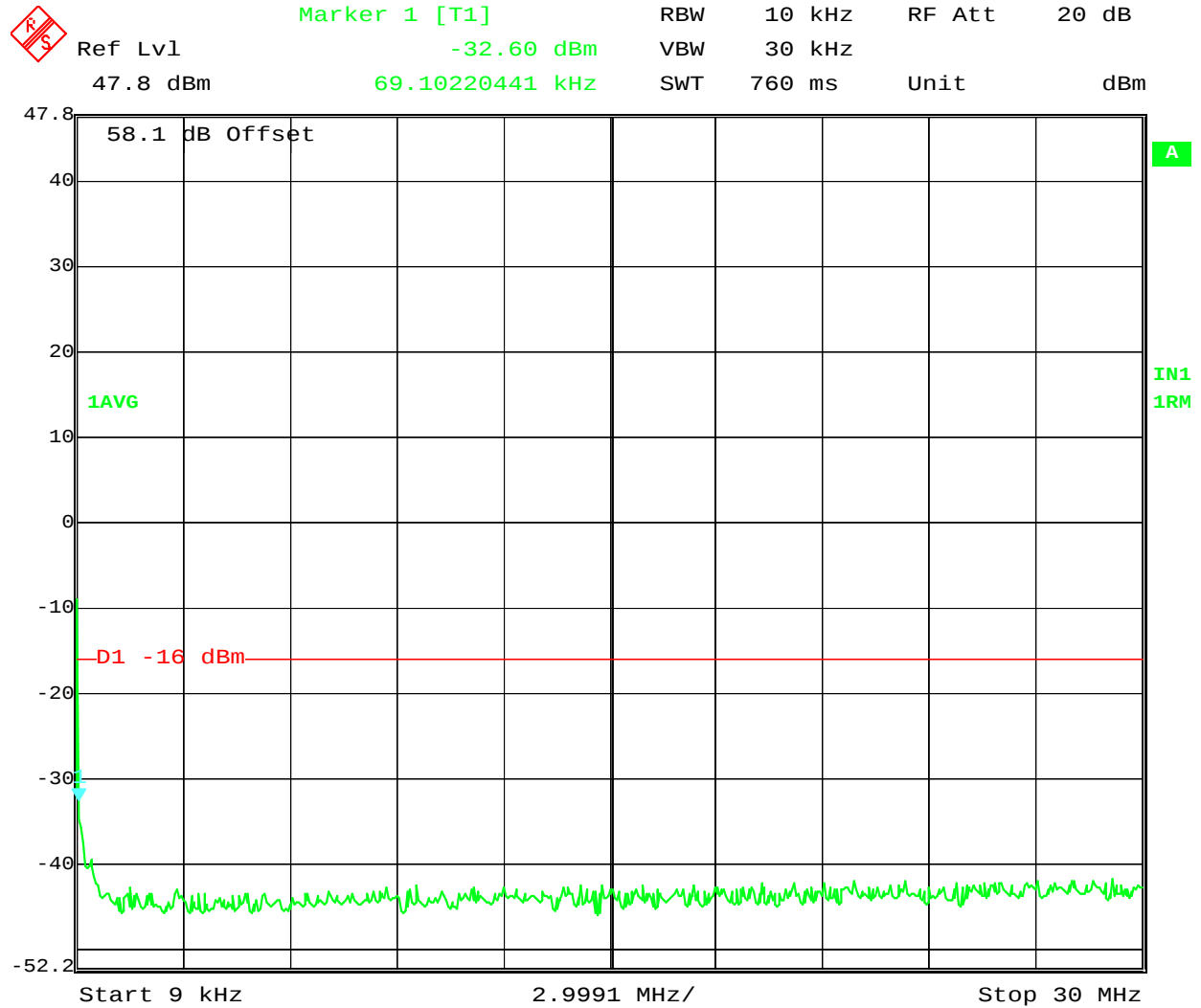
Date: 16.SEP.2013 07:47:47



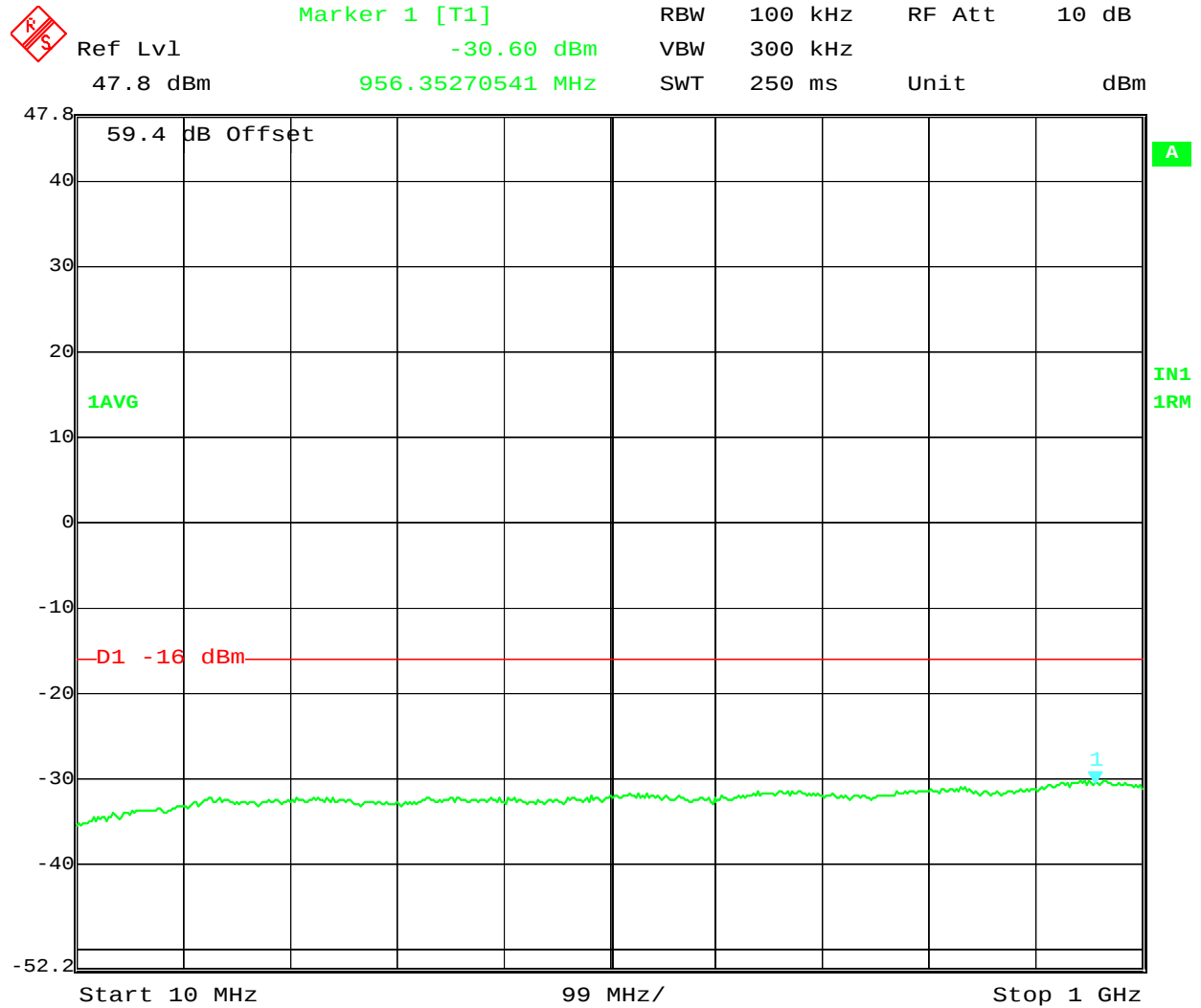
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 07:48:25

**Transmit Port
Antenna Conducted Spurious Emissions**

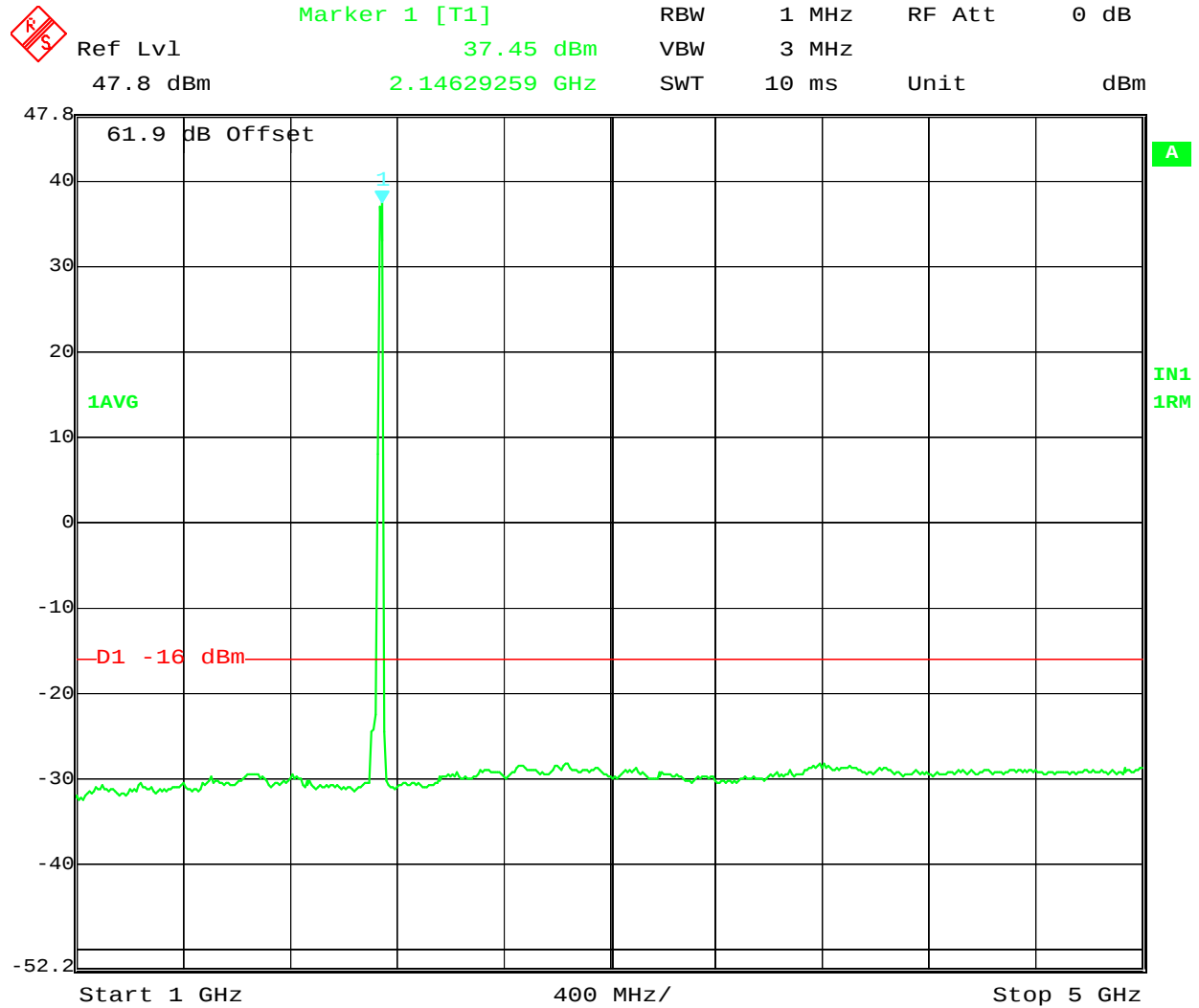
**Block: D+E+F
20 MHz Bandwidth (2135 – 2155 MHz)
2x60 watts (MIMO)
16QAM Modulation**



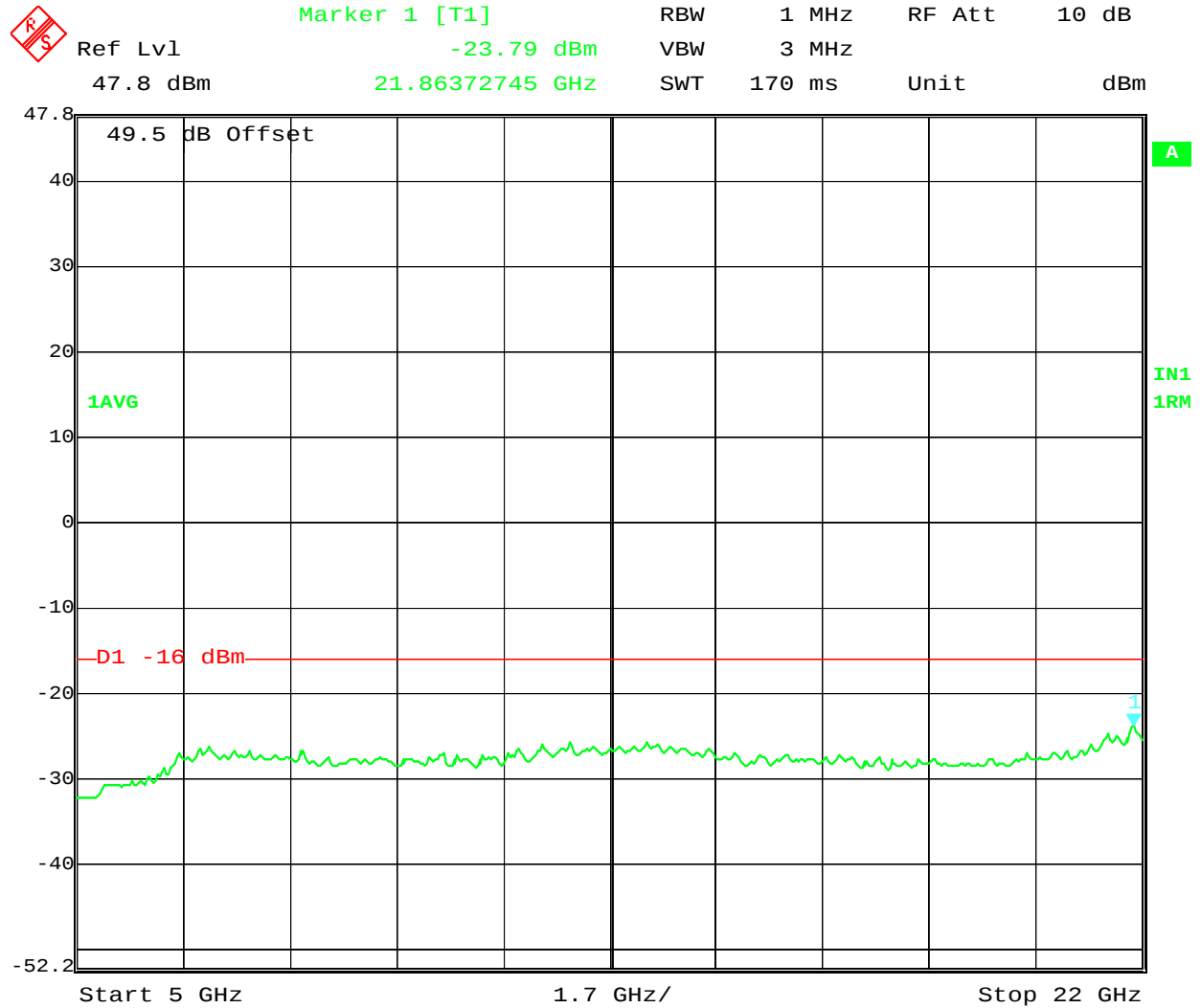
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 07:16:14



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 07:16:47



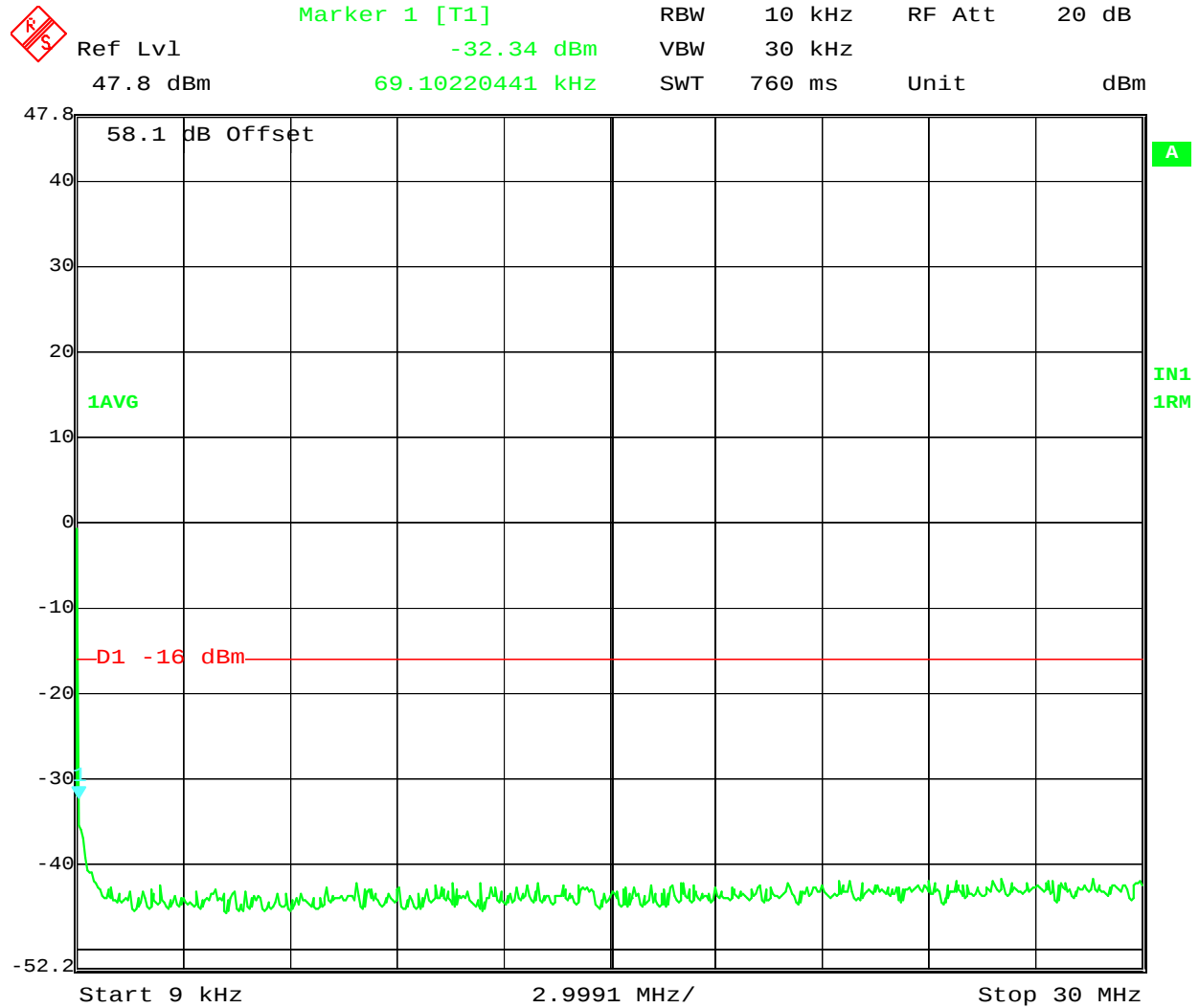
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 07:17:17



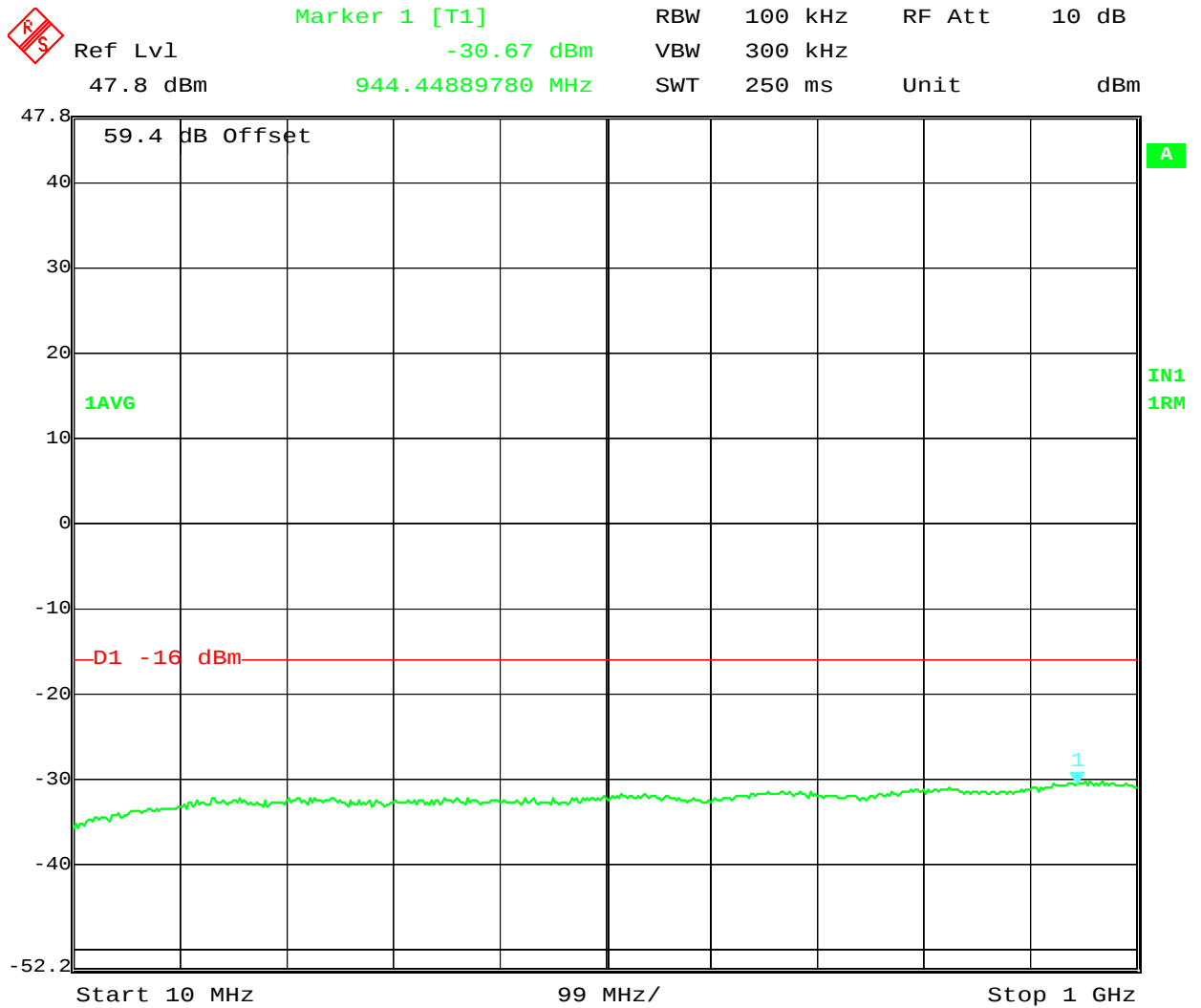
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 07:17:46

Transmit Port
Antenna Conducted Spurious Emissions

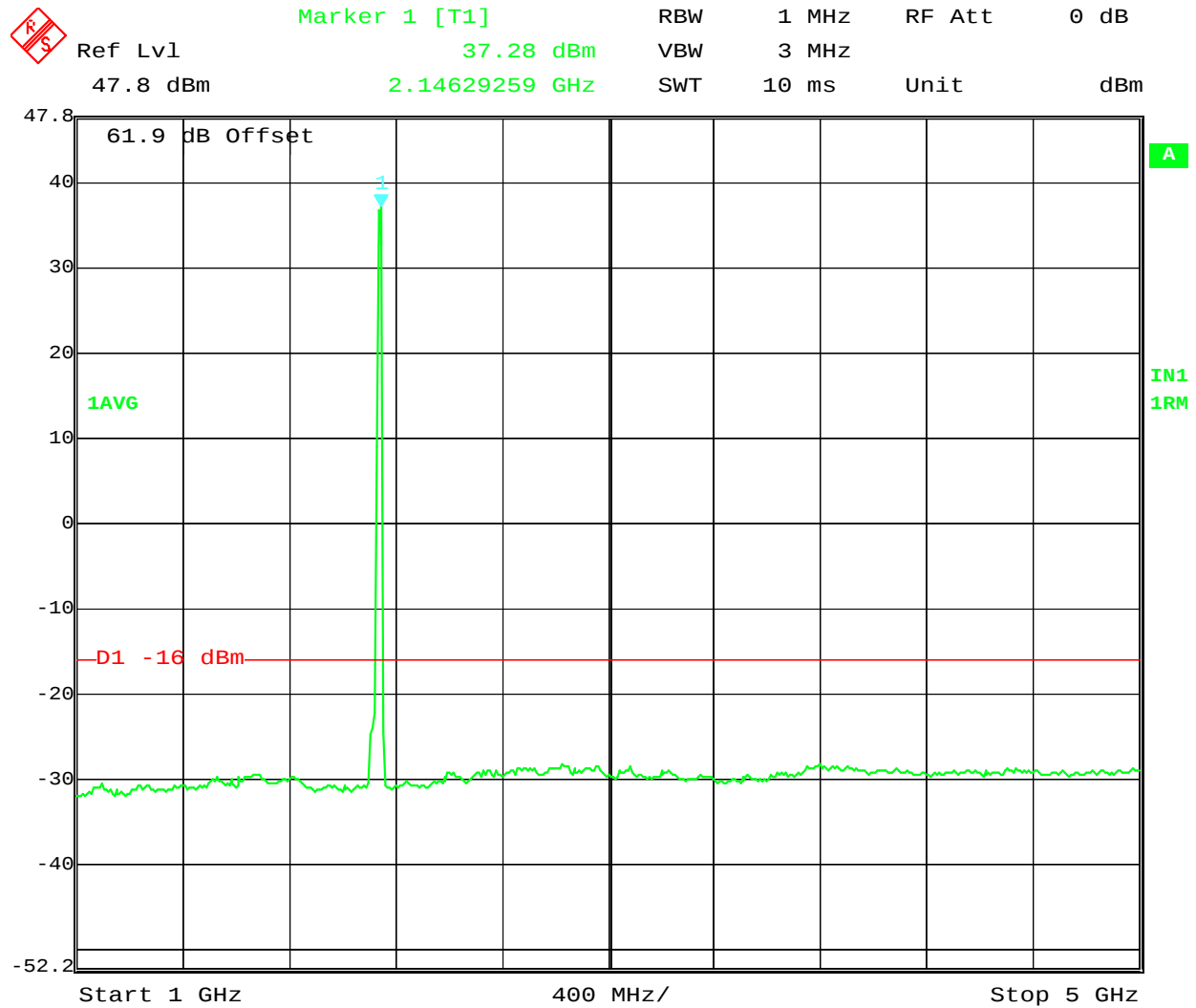
Block: D+E+F
20 MHz Bandwidth (2135 – 2155 MHz)
2x60 watts (MIMO)
64QAM Modulation



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:52:42



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 16.SEP.2013 06:53:44

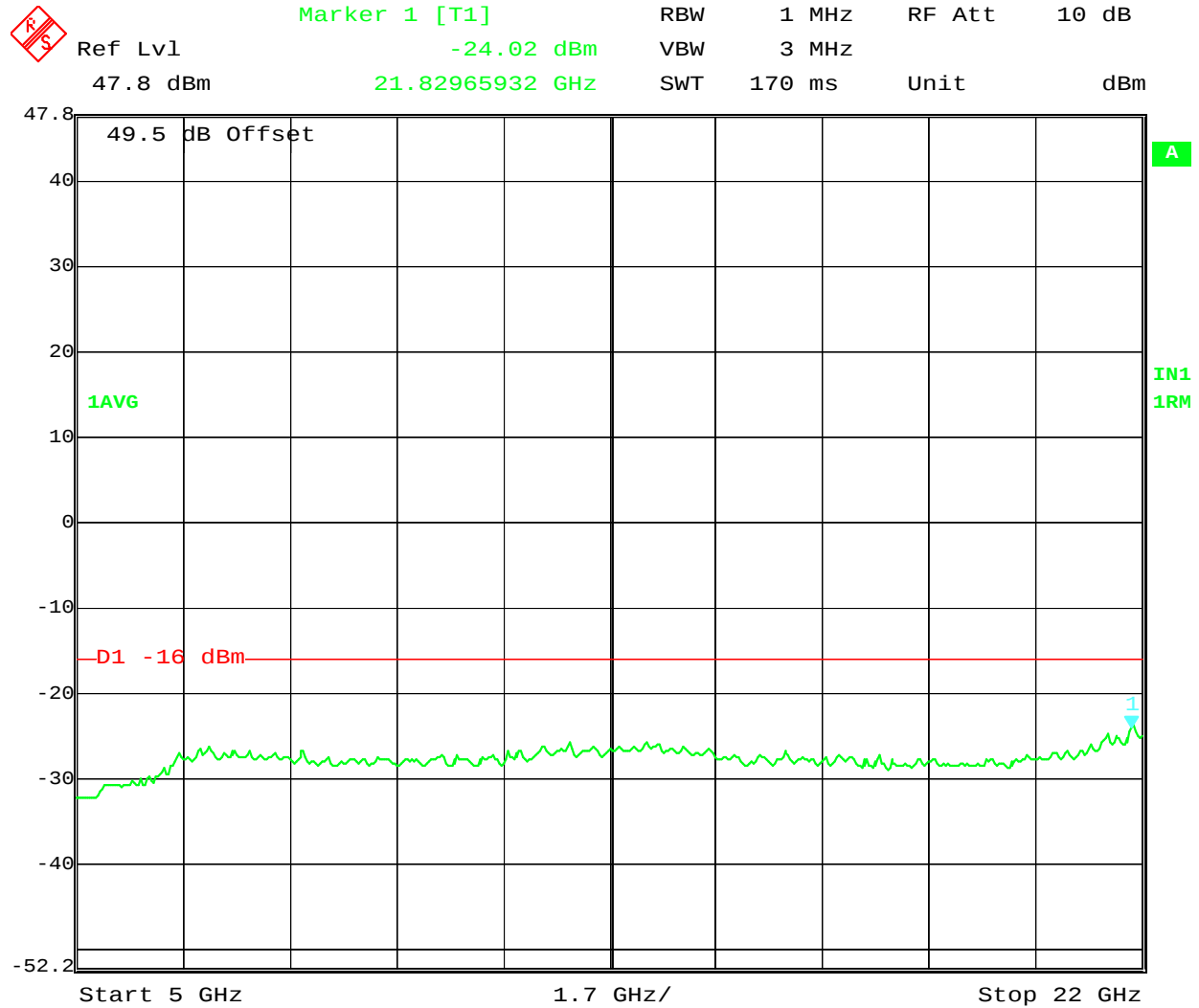


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W

64QAM; FCC PRT 27; FCCID:AS5BBTRX-13

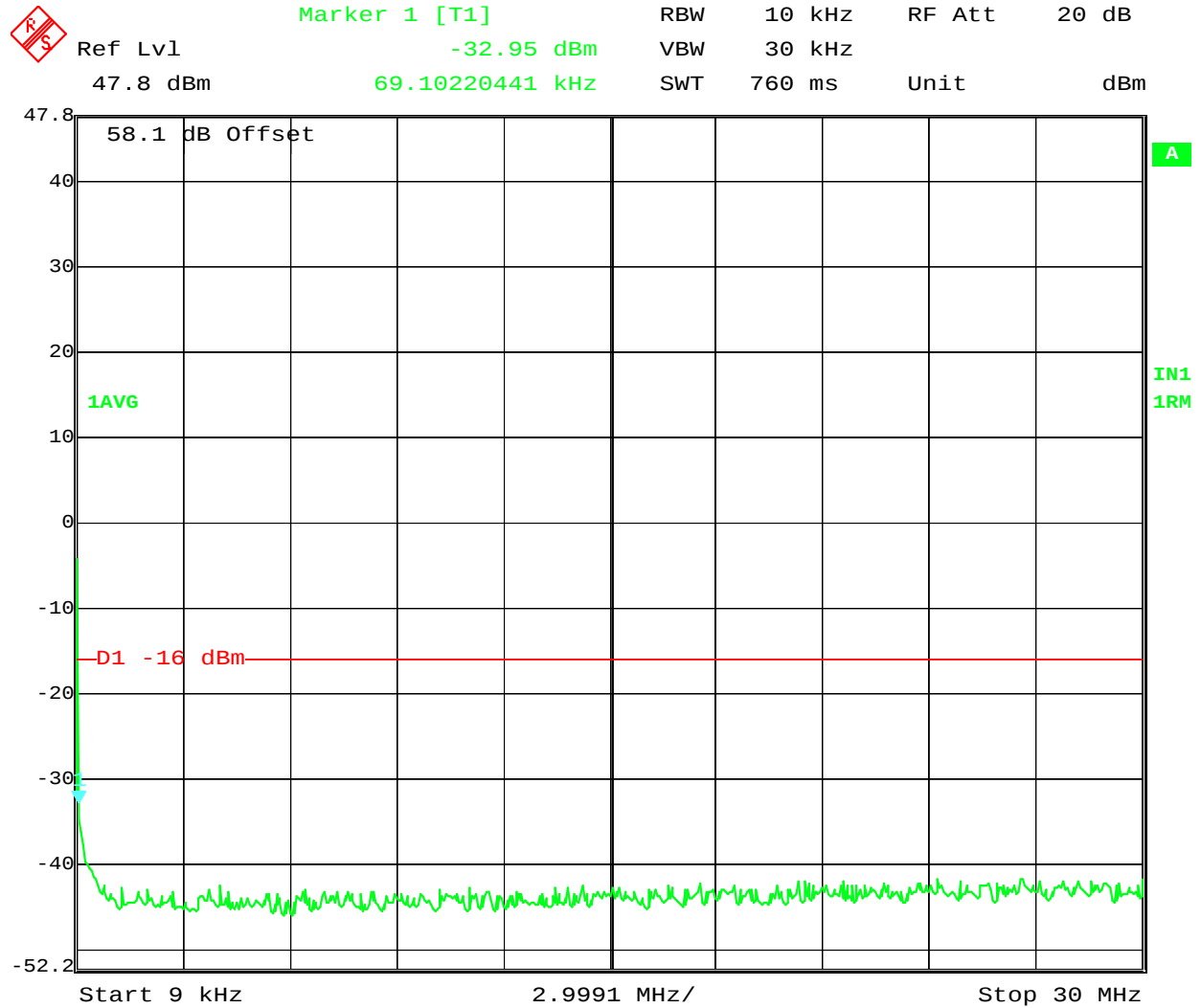
Date: 16.SEP.2013 06:54:40



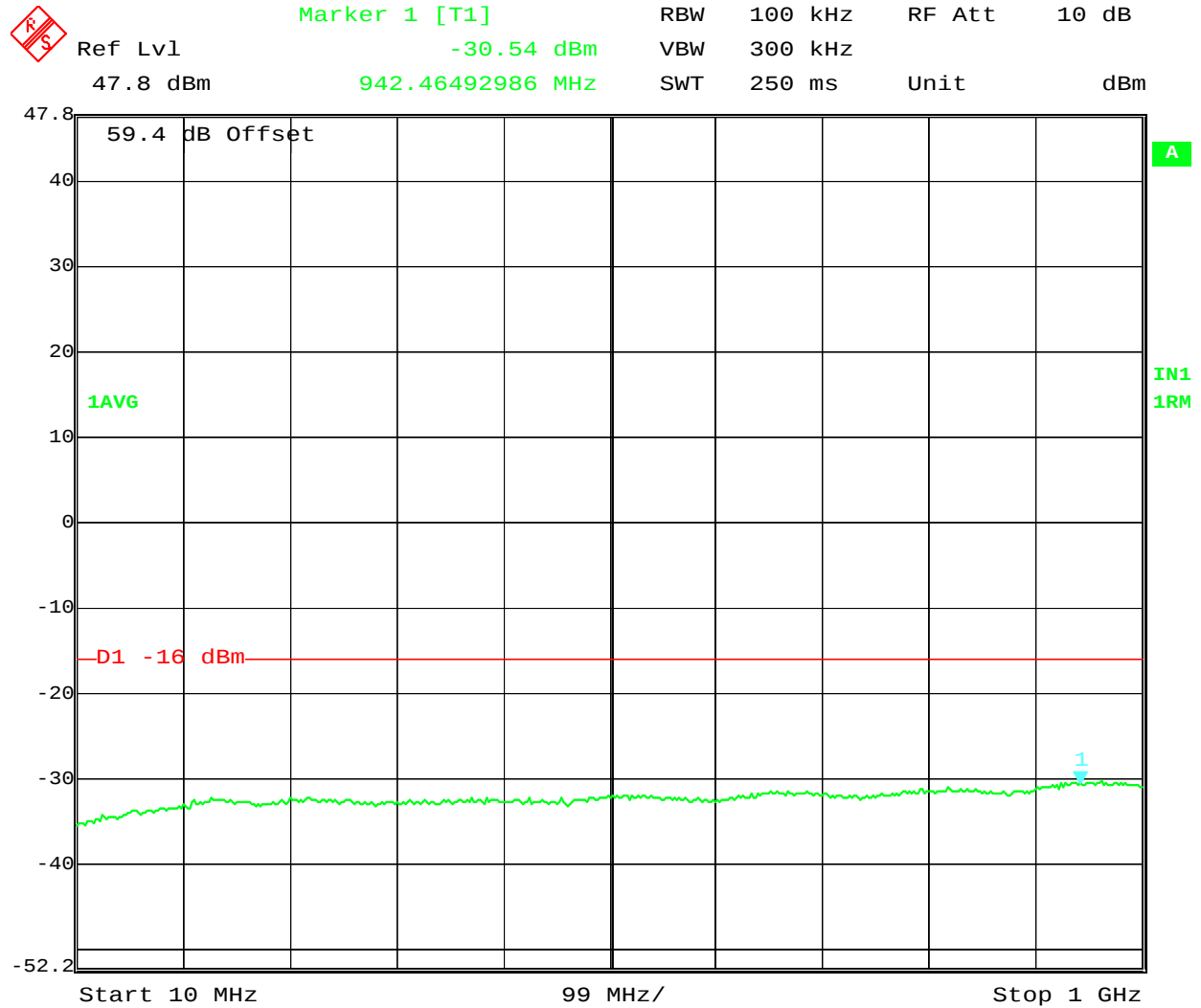
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E+F; 2145 MHz; 20MHz BW; PWR:60W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 16.SEP.2013 06:55:32

Transmit Port
Antenna Conducted Spurious Emissions

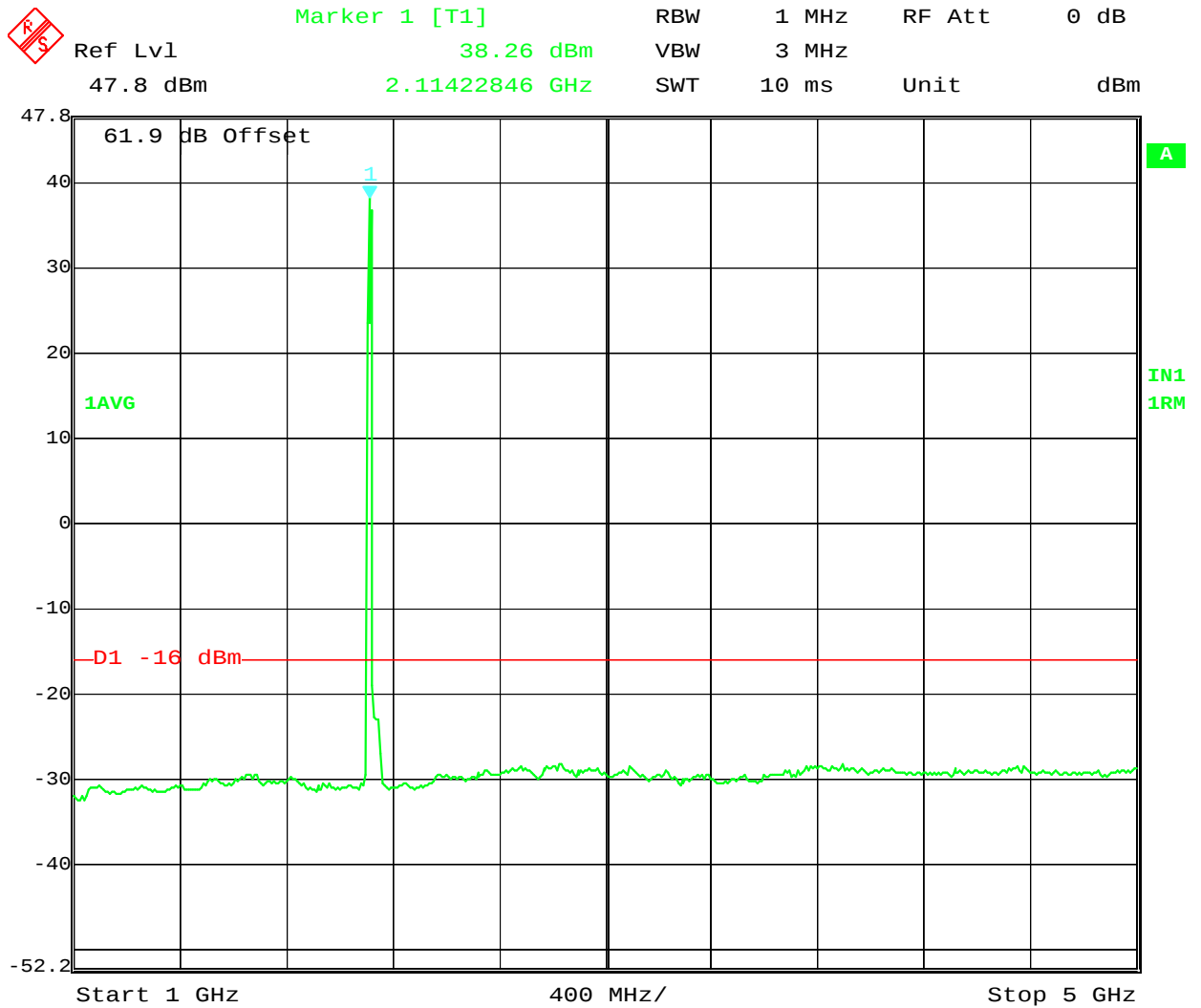
Block: A+B1
15 MHz BW Bandwidth (2110 – 2125 MHz)
2x60 watts (MIMO)
QPSK Modulation



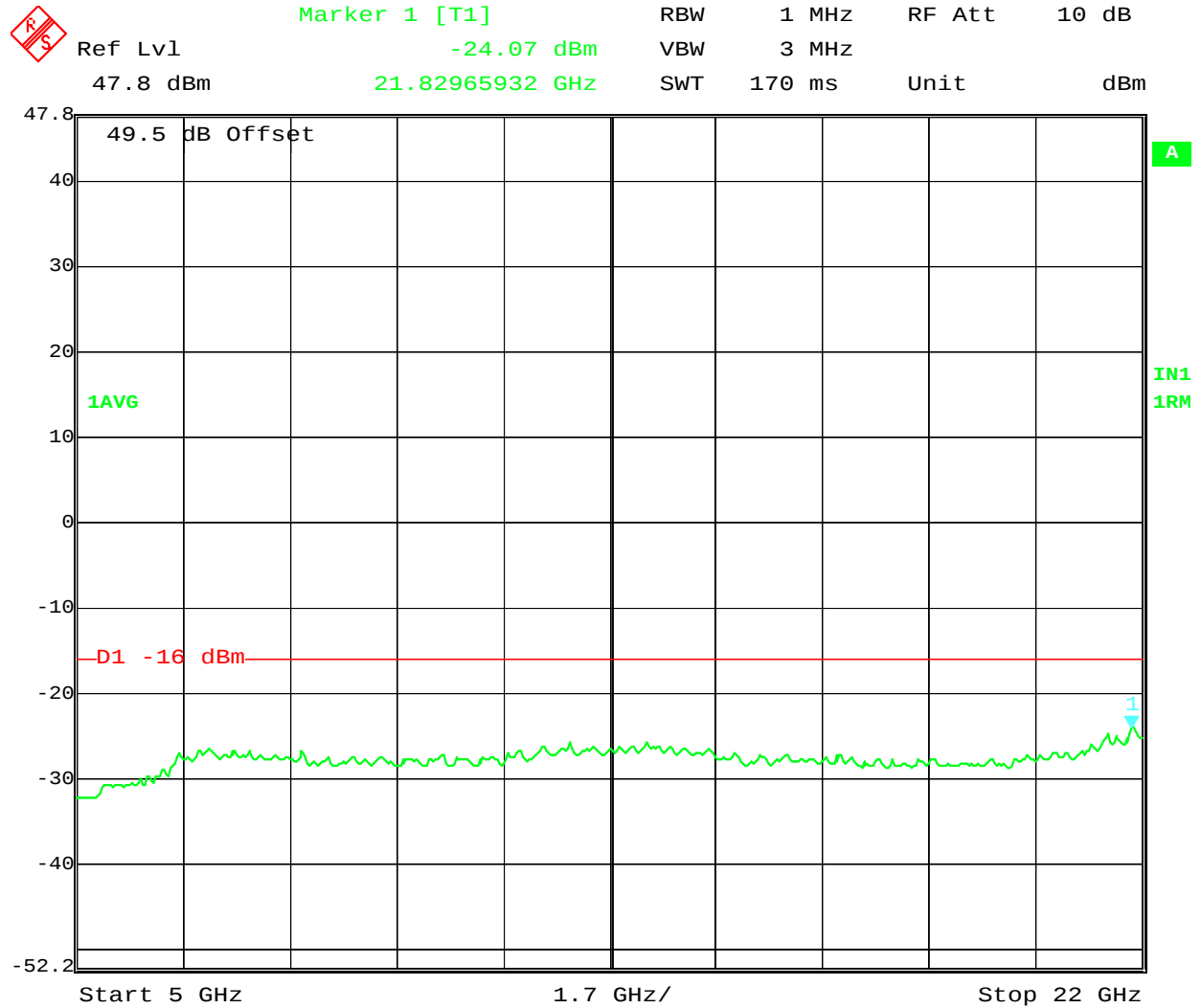
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 08:47:05



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:47:52



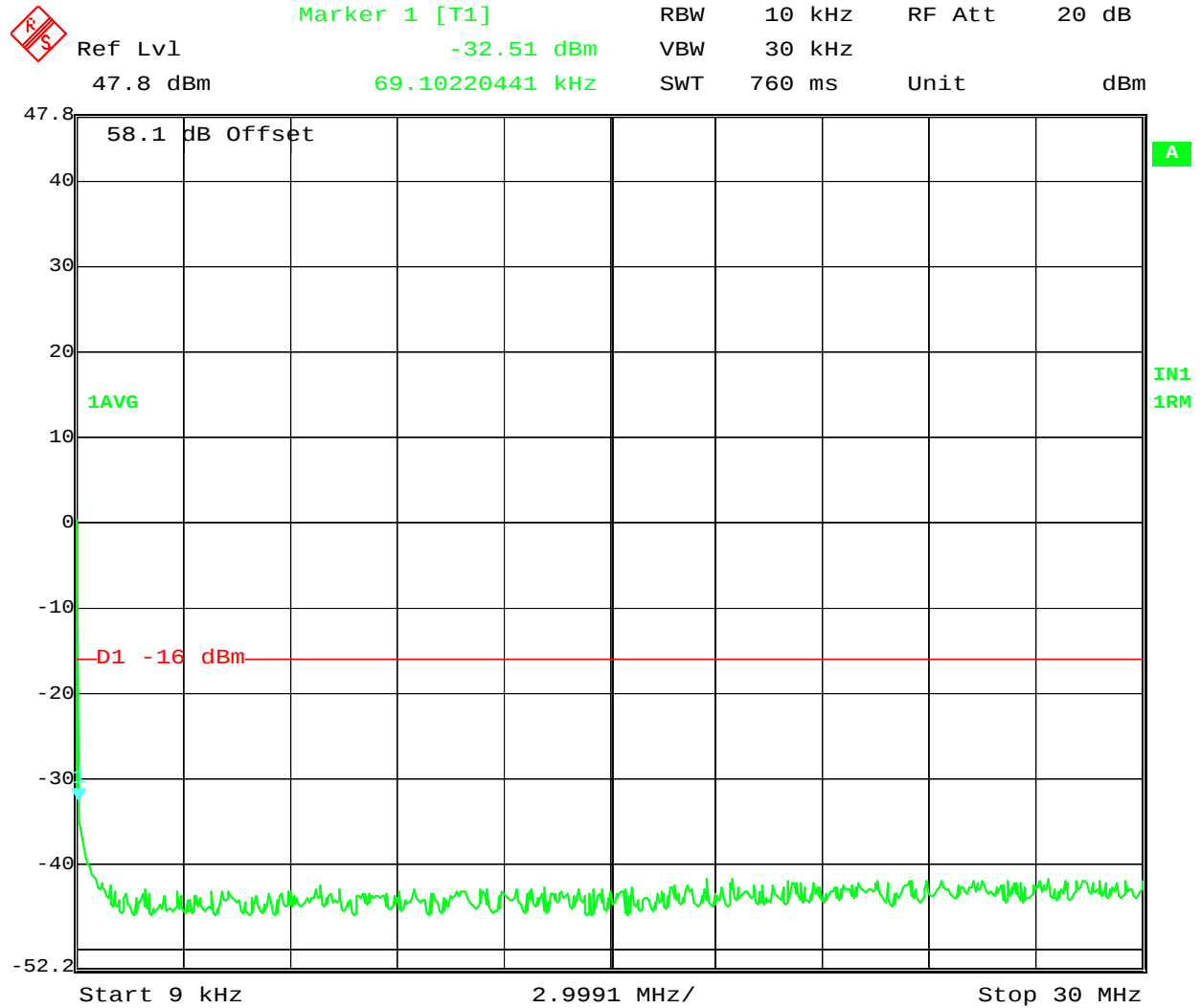
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:48:41



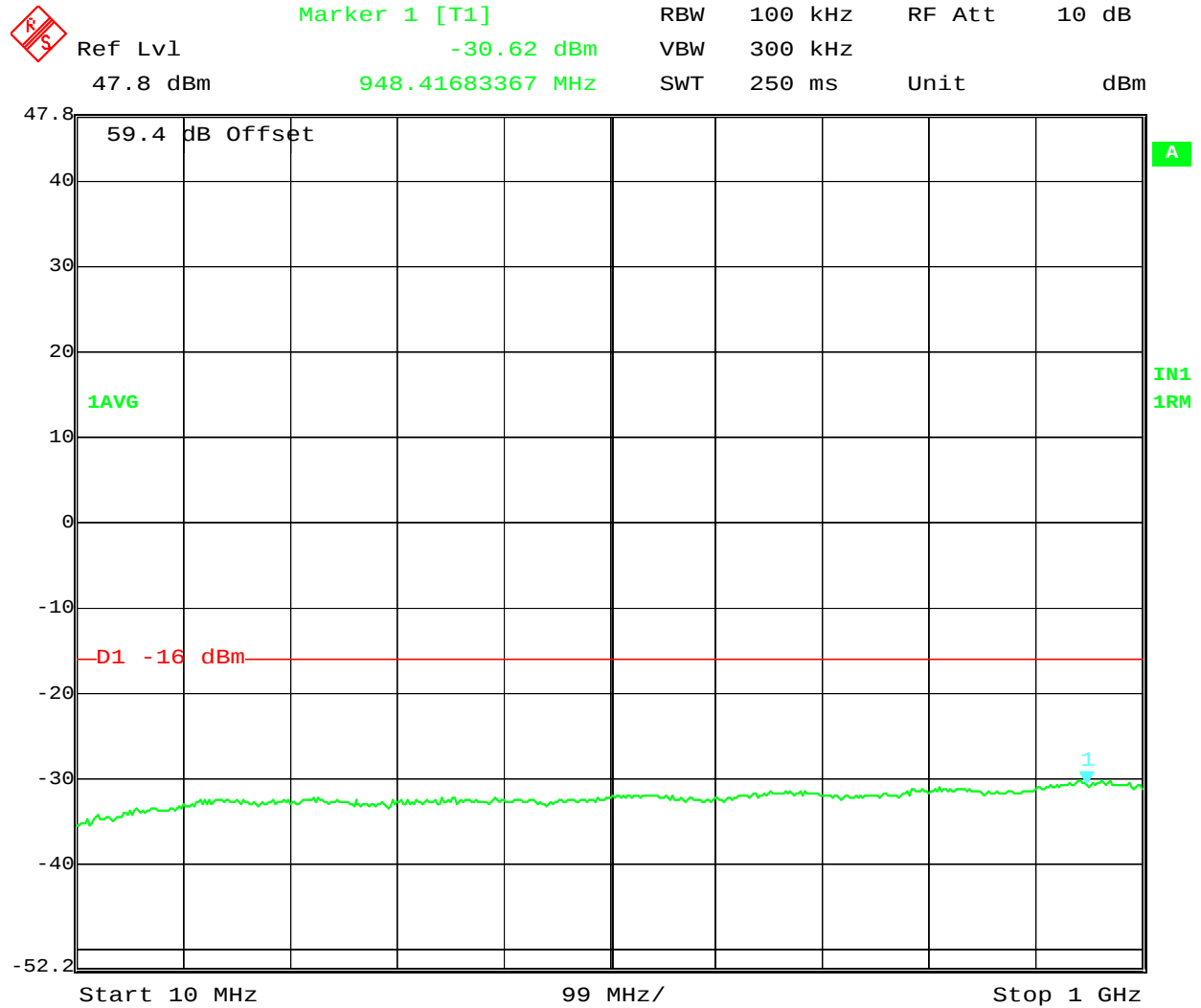
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:49:24

Transmit Port
Antenna Conducted Spurious Emissions

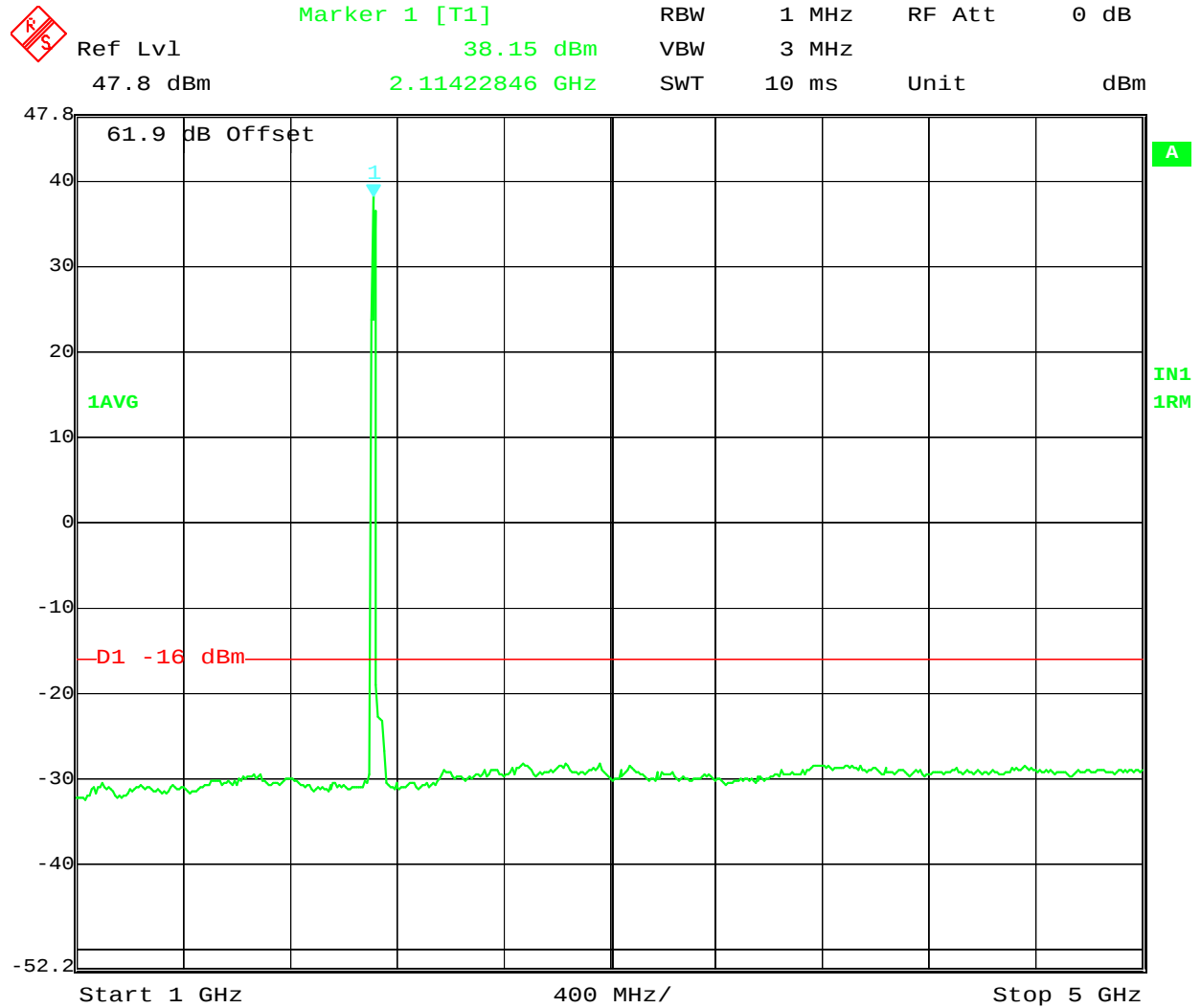
Block: A+B1
15 MHz BW Bandwidth (2110 – 2125 MHz)
2x60 watts (MIMO)
16QAM Modulation



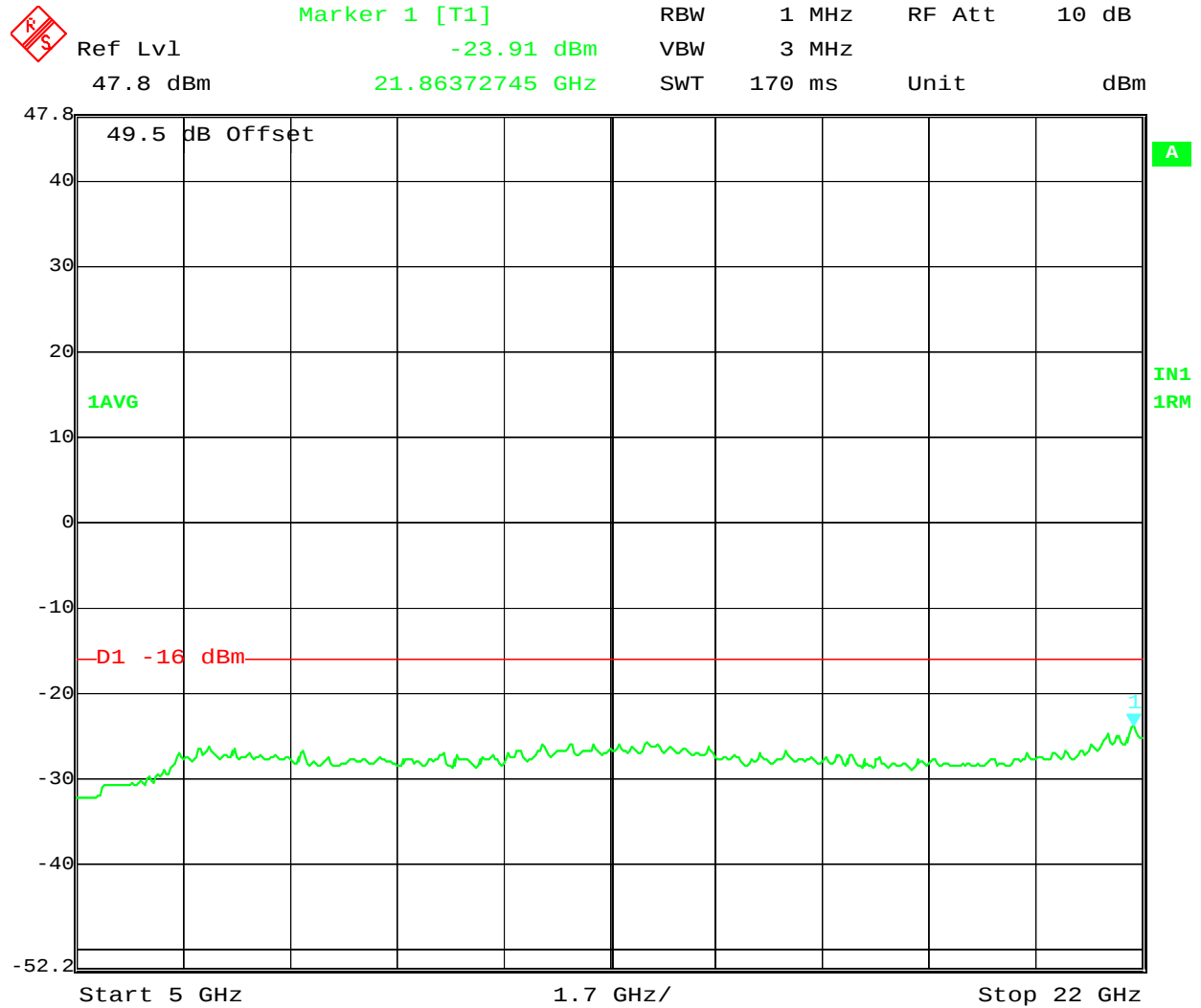
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:53:16



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:54:19



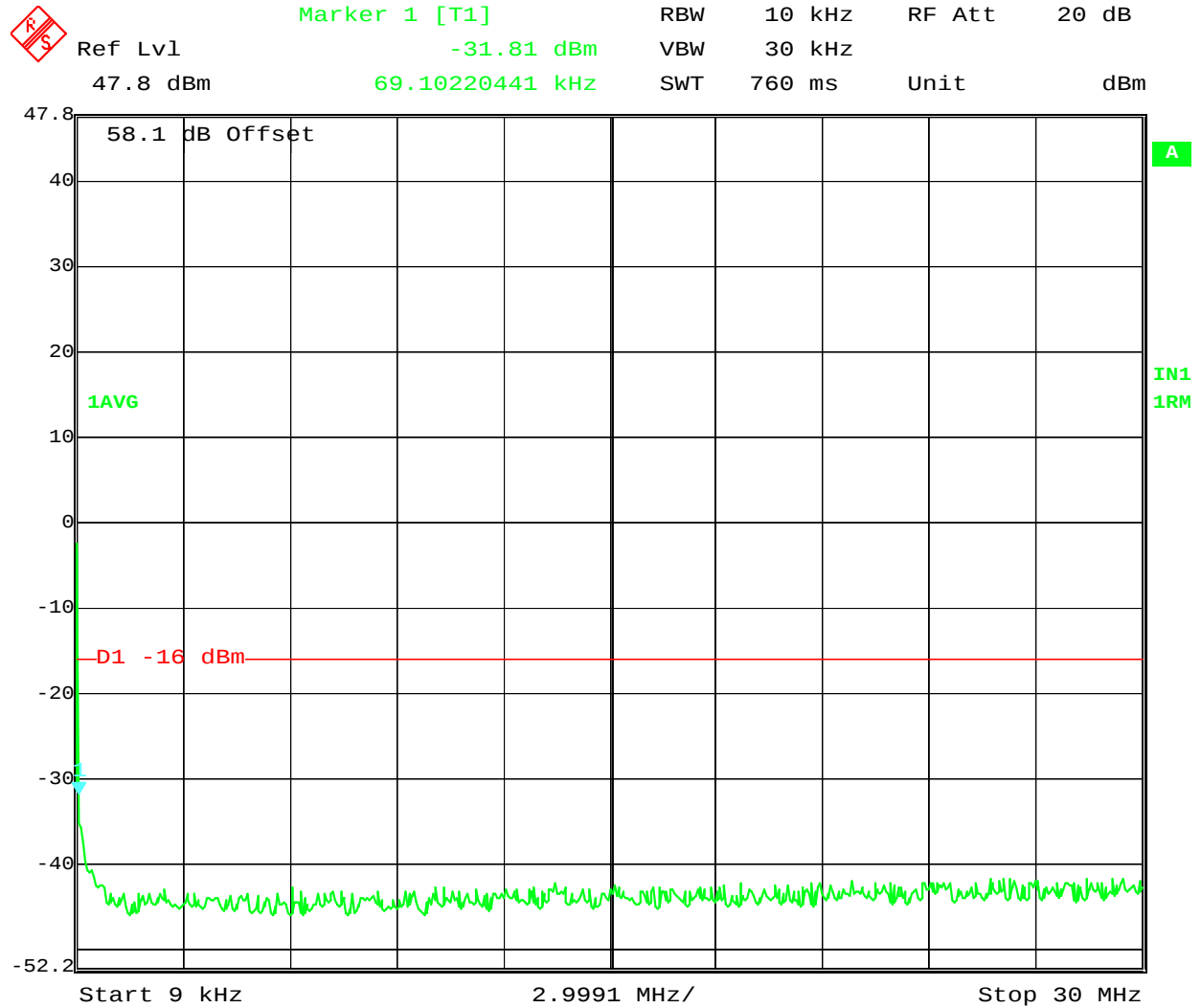
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 08:54:54



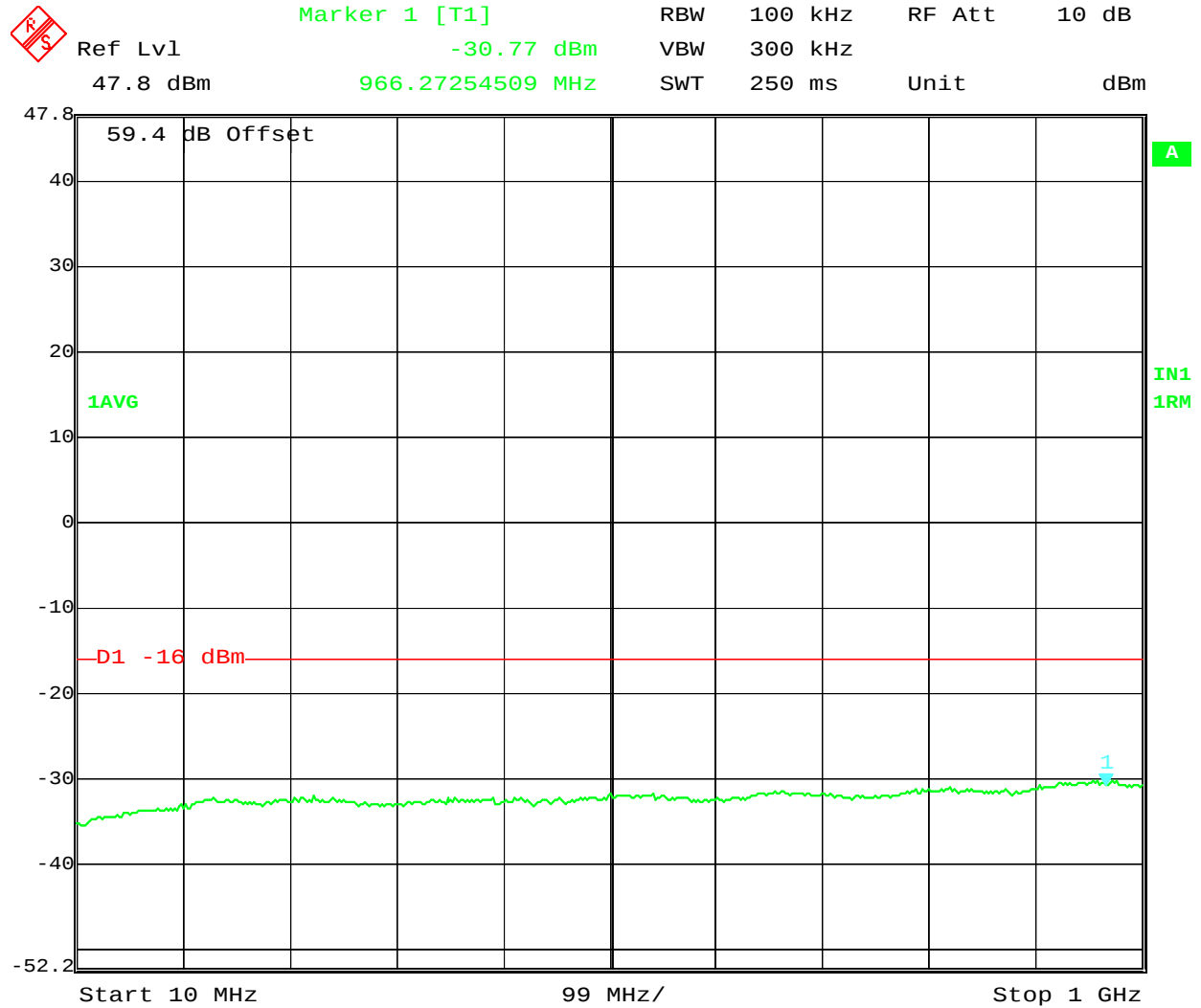
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 08:55:32

Transmit Port
Antenna Conducted Spurious Emissions

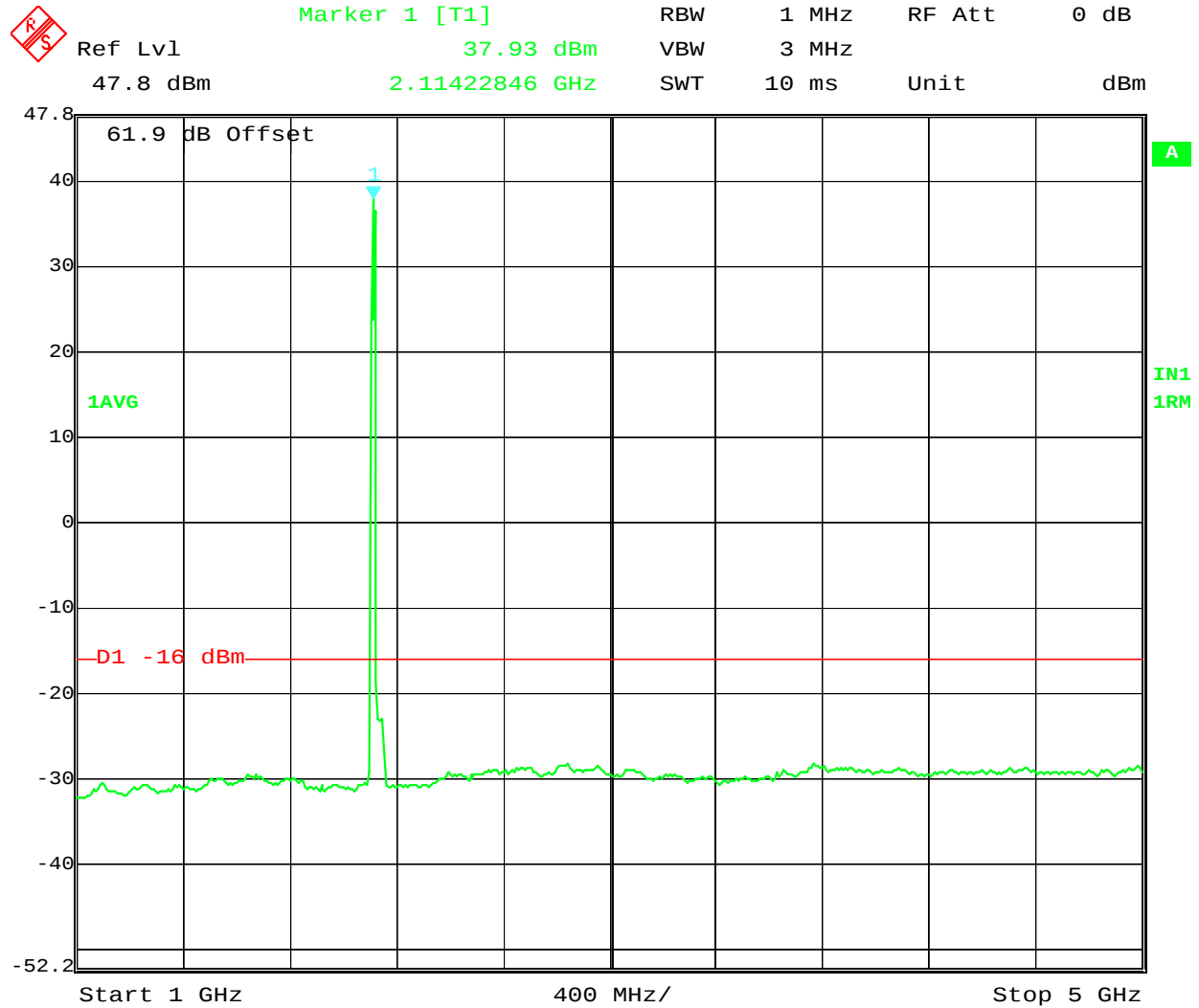
Block: A+B1
15 MHz BW Bandwidth (2110 – 2125 MHz)
2x60 watts (MIMO)
64QAM Modulation



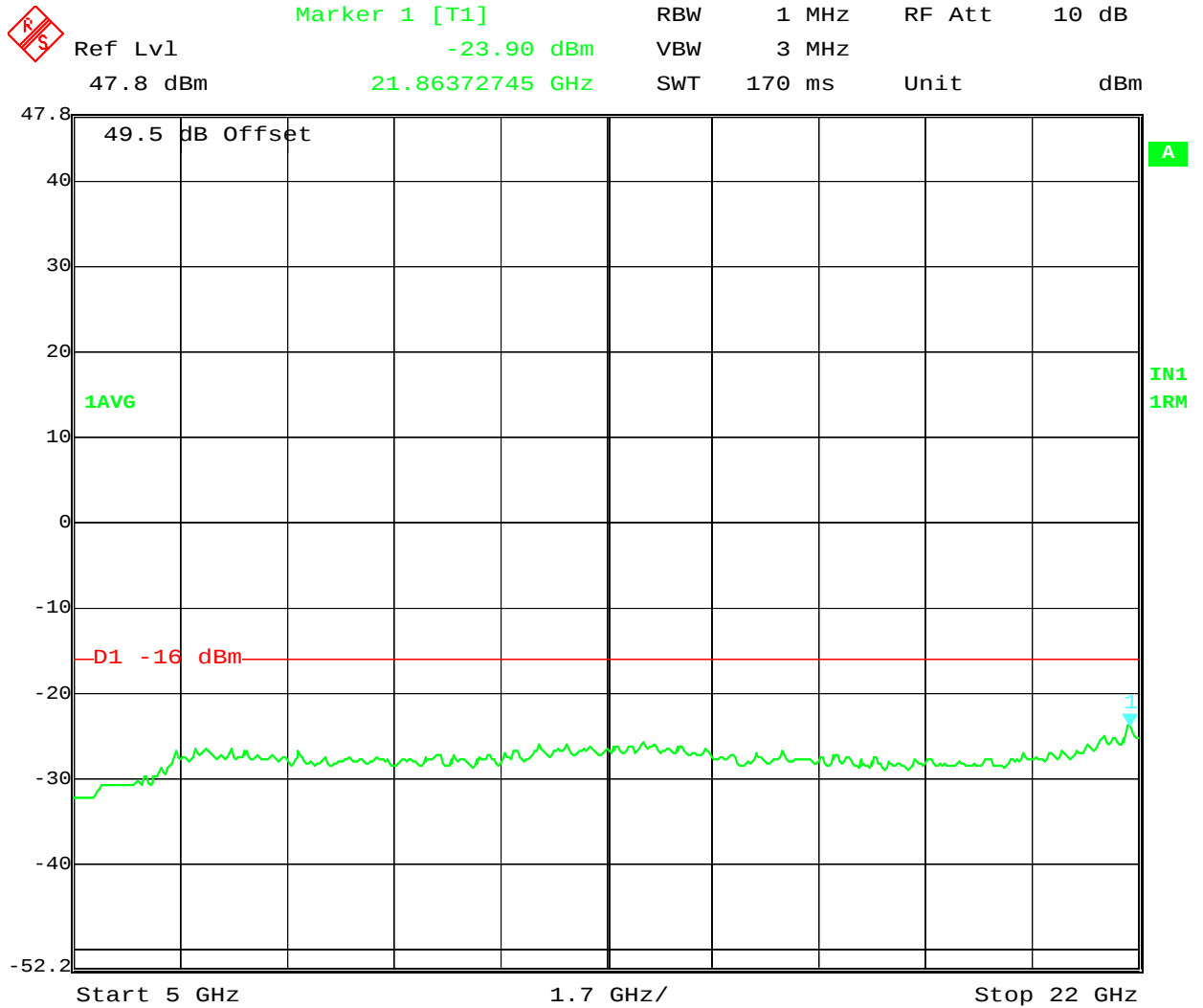
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:59:12



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:59:45



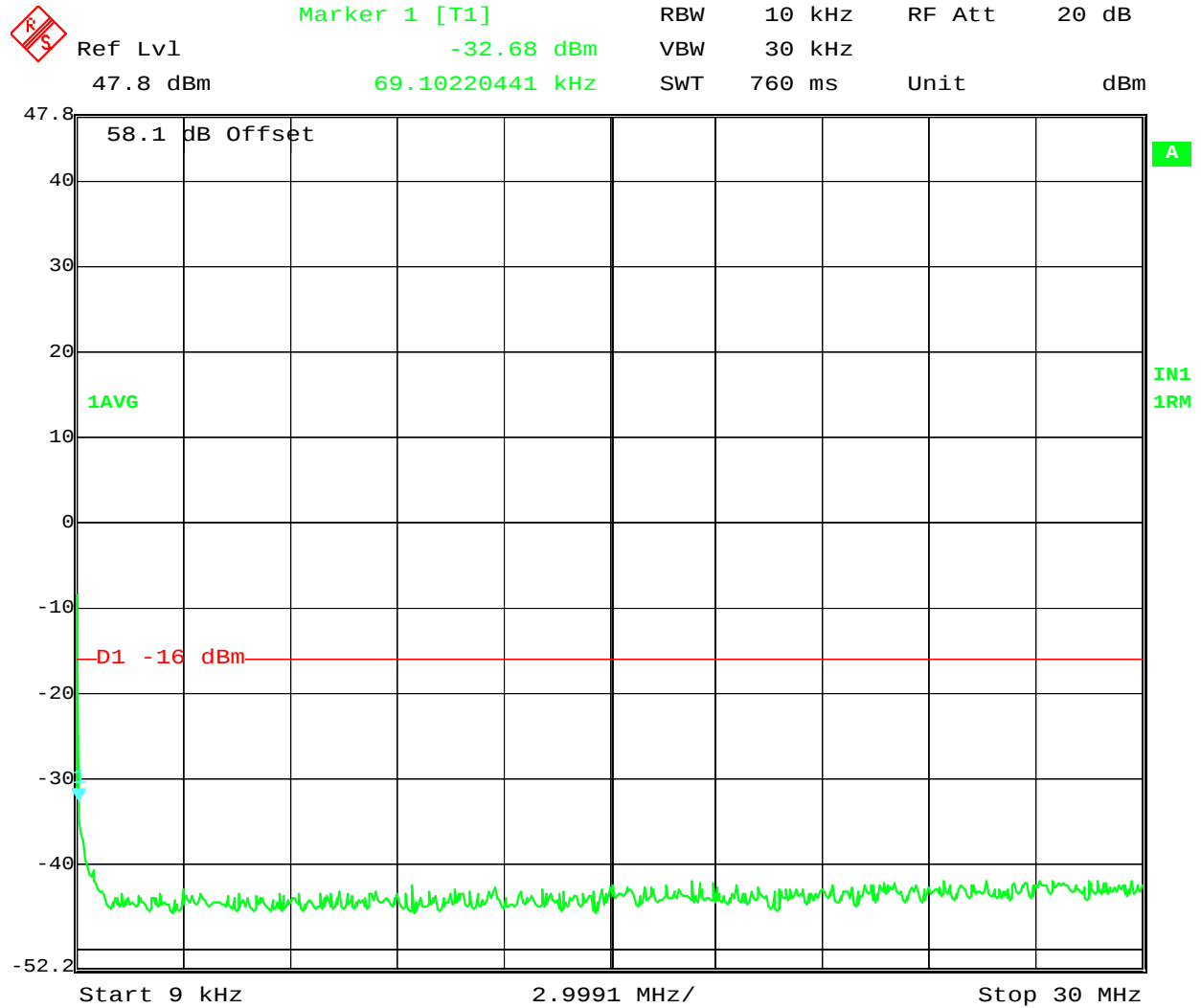
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 09:00:18



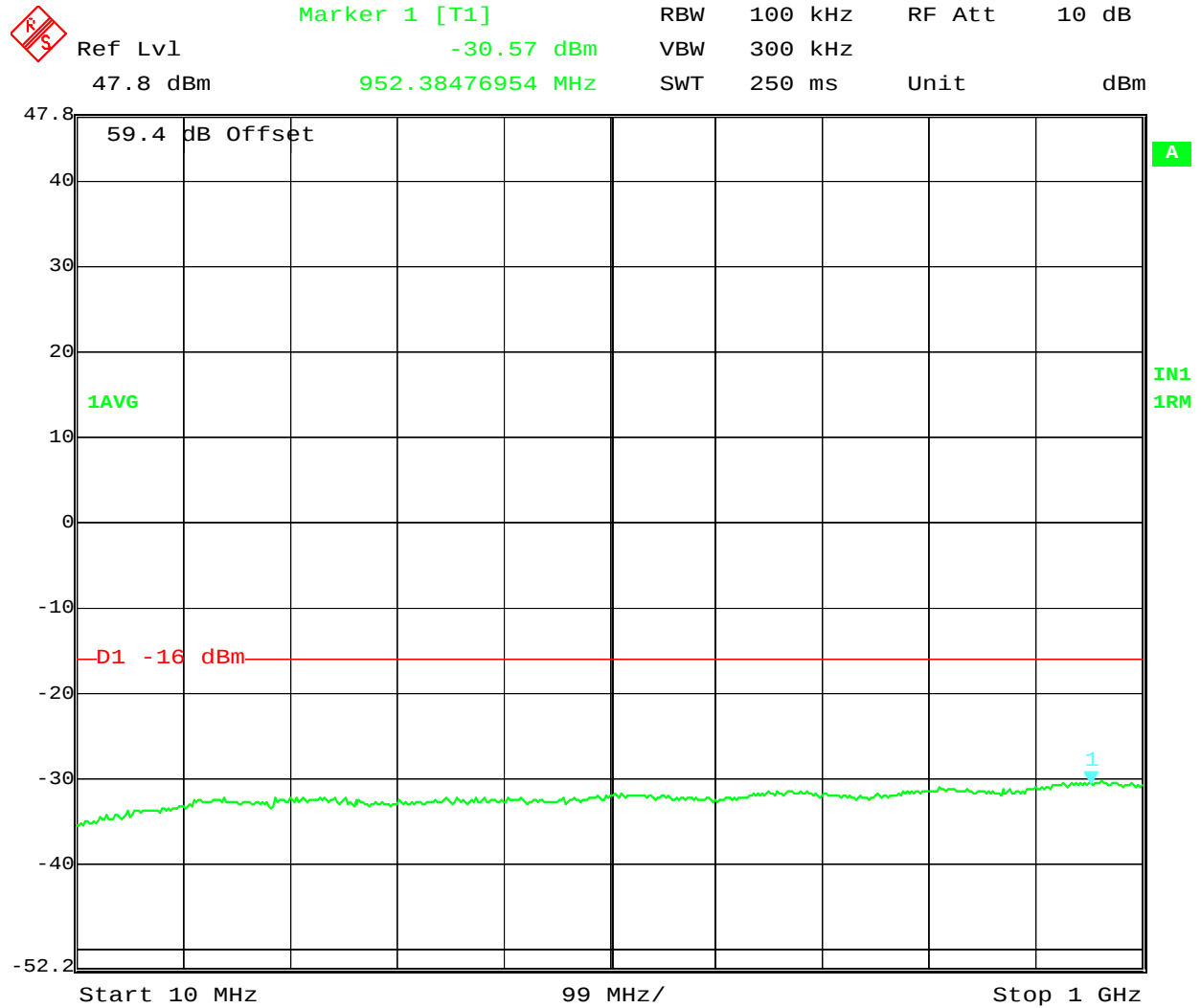
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A+B1; 2117.5 MHz; 15MHz BW; PWR:60W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 09:00:49

Transmit Port
Antenna Conducted Spurious Emissions

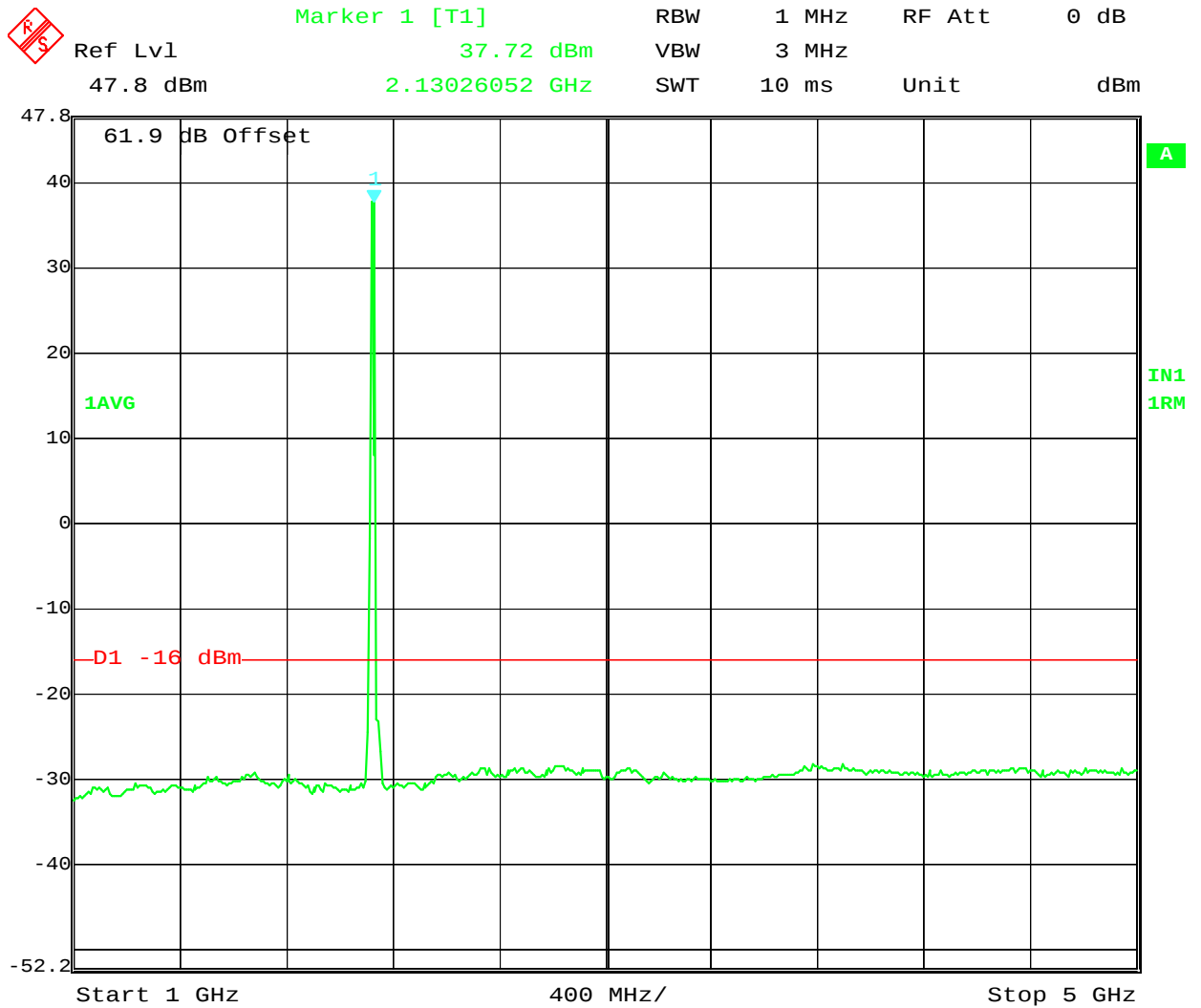
Block: B+C
15 MHz BW Bandwidth (2120 – 2135 MHz)
2x60 watts (MIMO)
QPSK Modulation



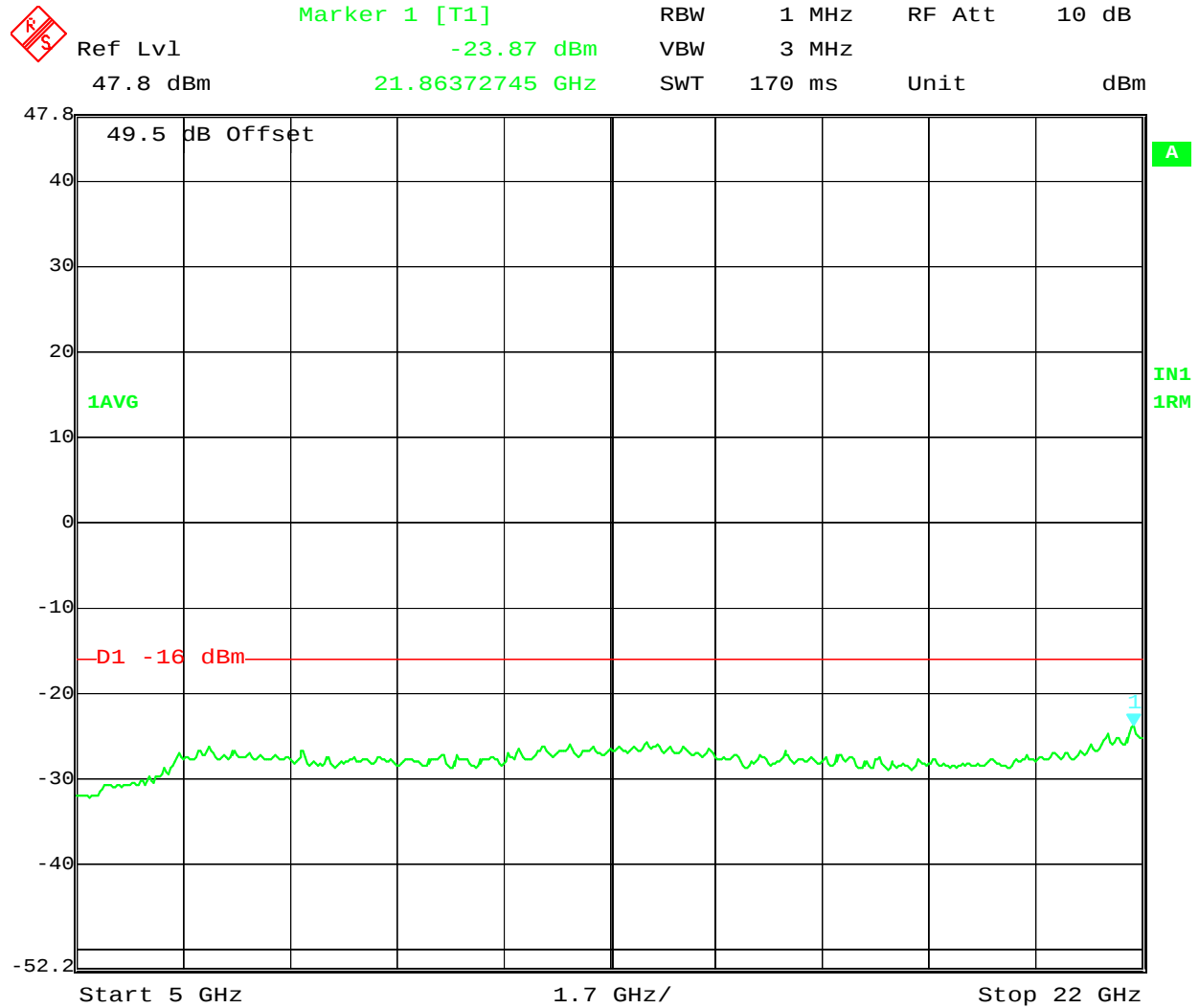
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:44:59



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:45:36



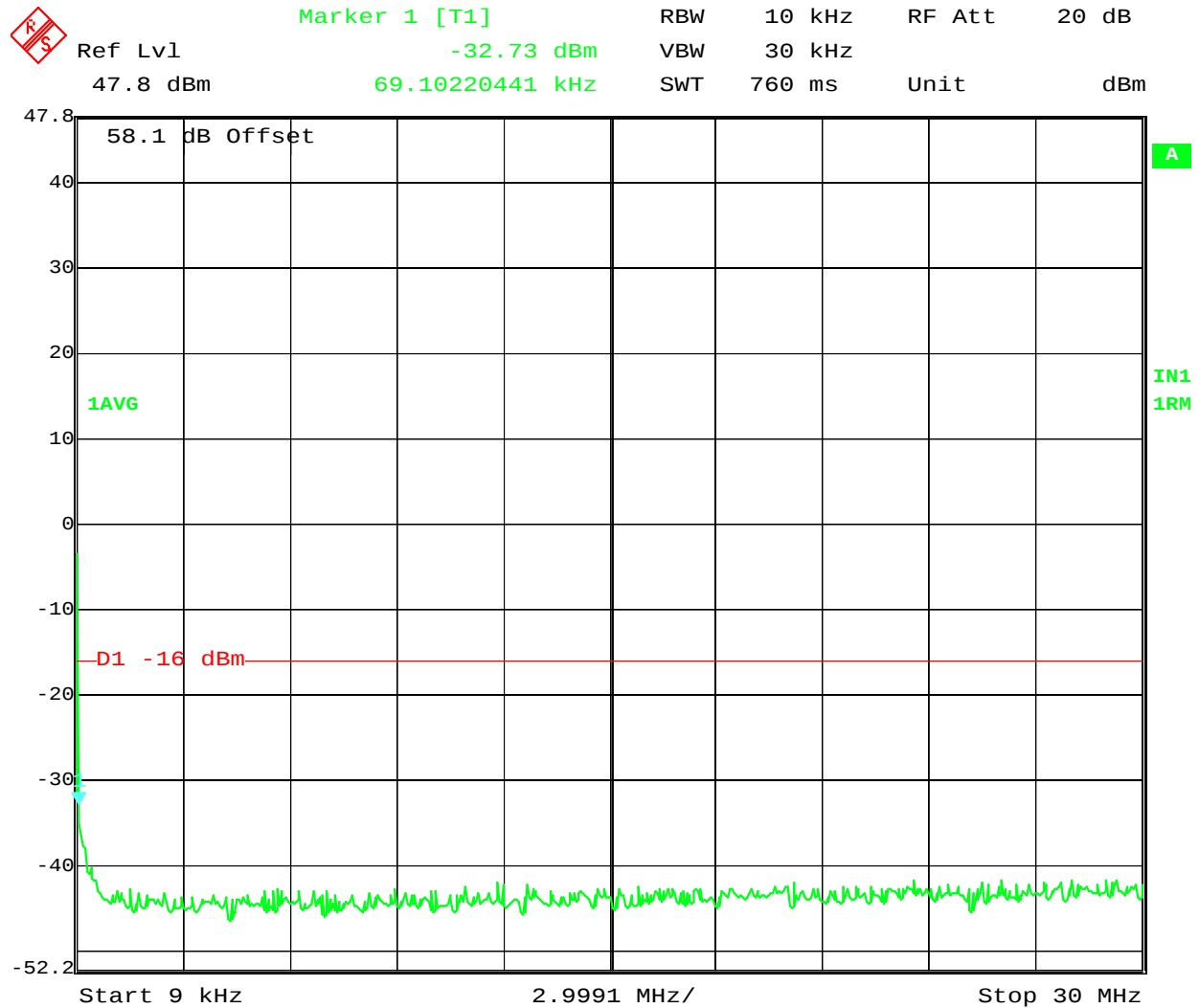
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 12.SEP.2013 10:46:54



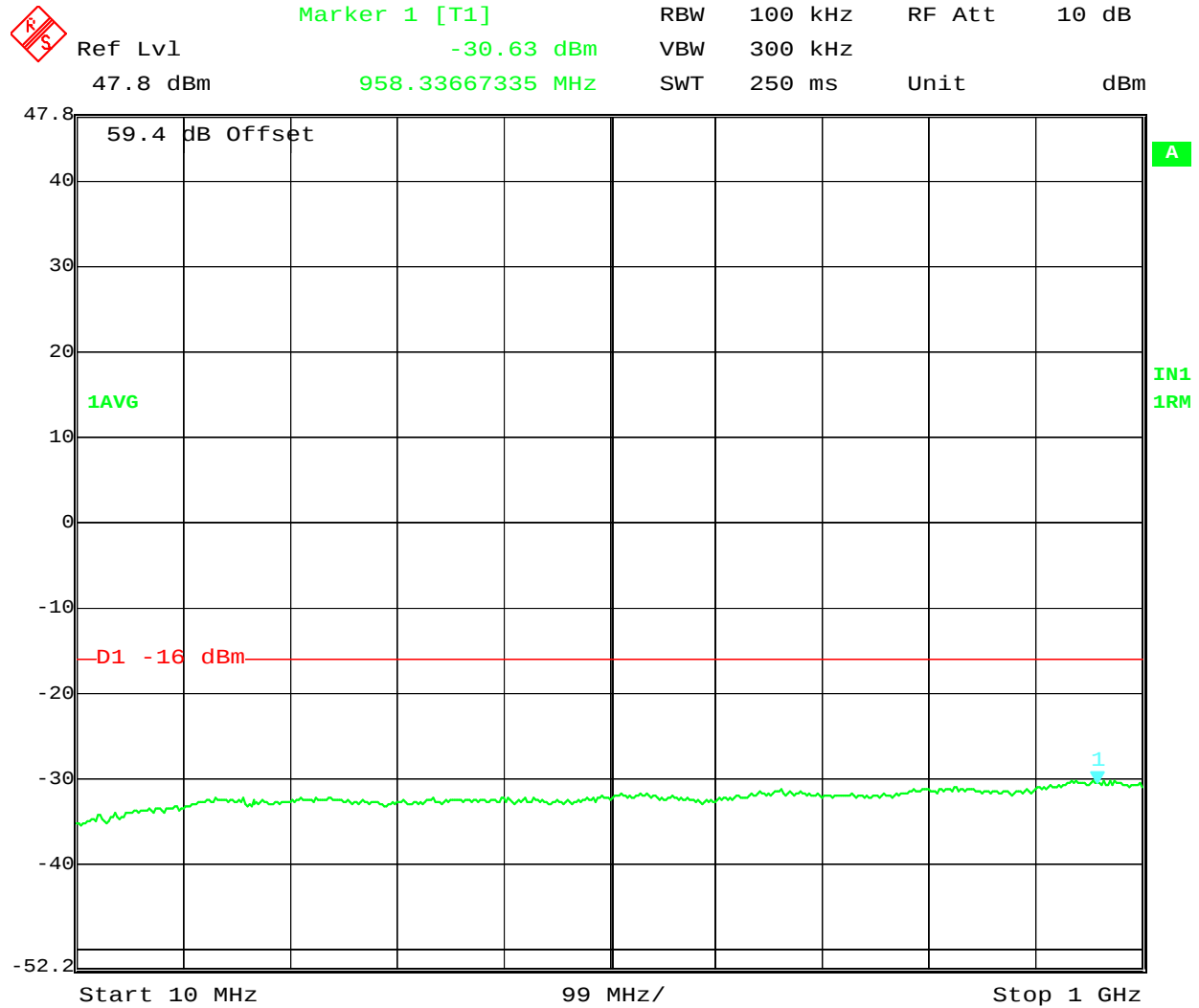
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:48:06

**Transmit Port
Antenna Conducted Spurious Emissions**

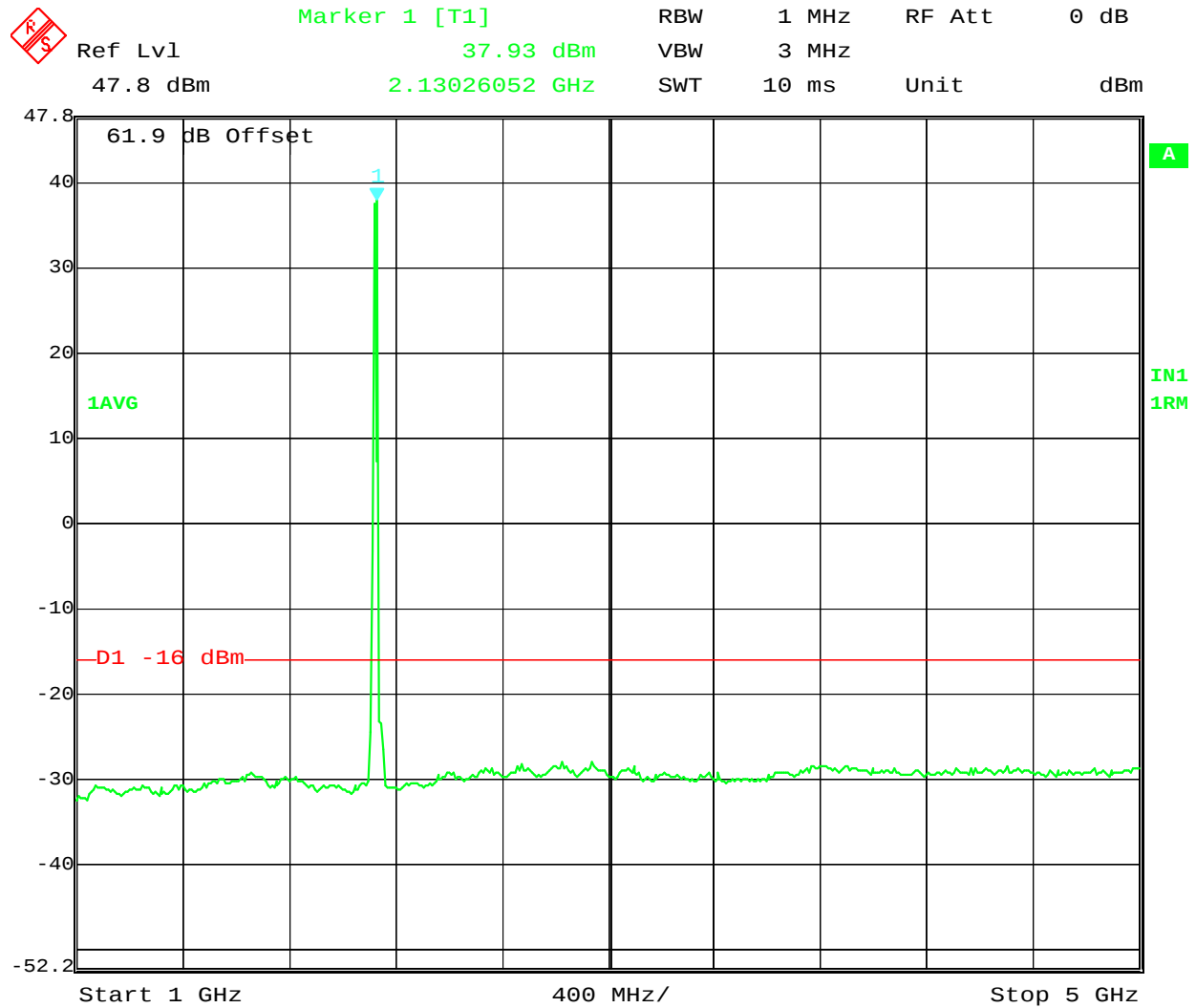
**Block: B+C
15 MHz BW Bandwidth (2120 – 2135 MHz)
2x60 watts (MIMO)
16QAM Modulation**



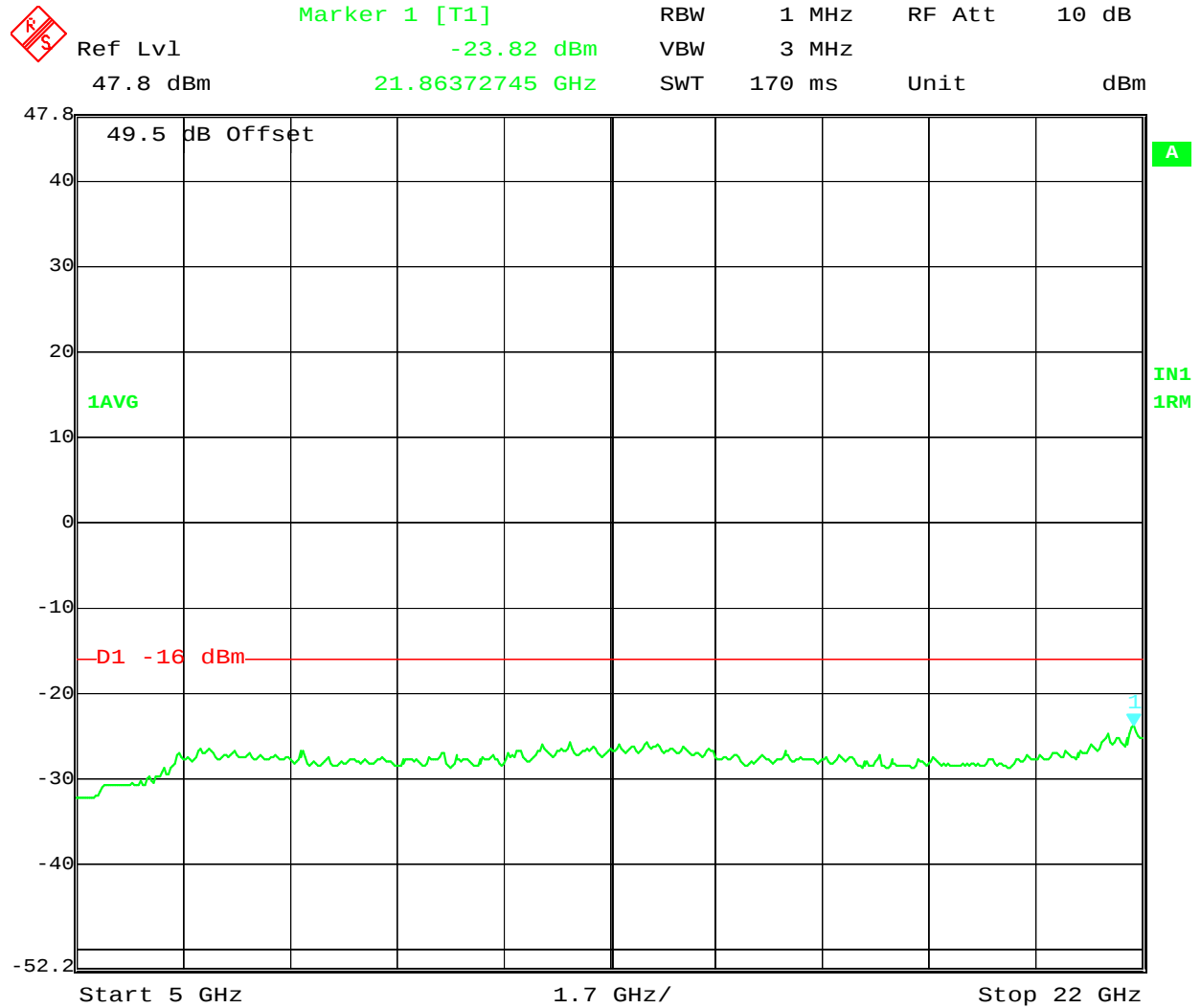
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 12.SEP.2013 10:53:22



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 12.SEP.2013 10:52:35



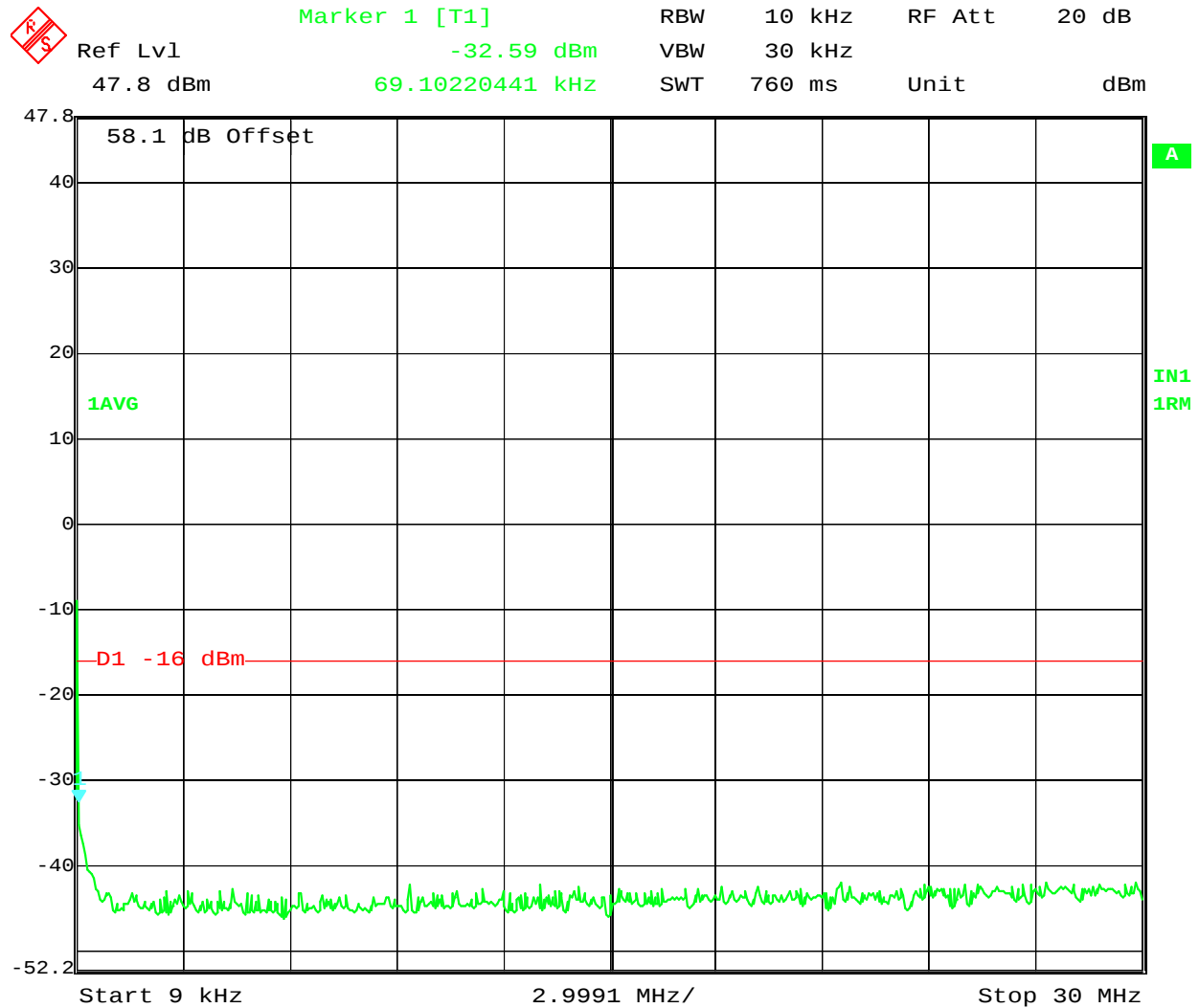
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:51:56



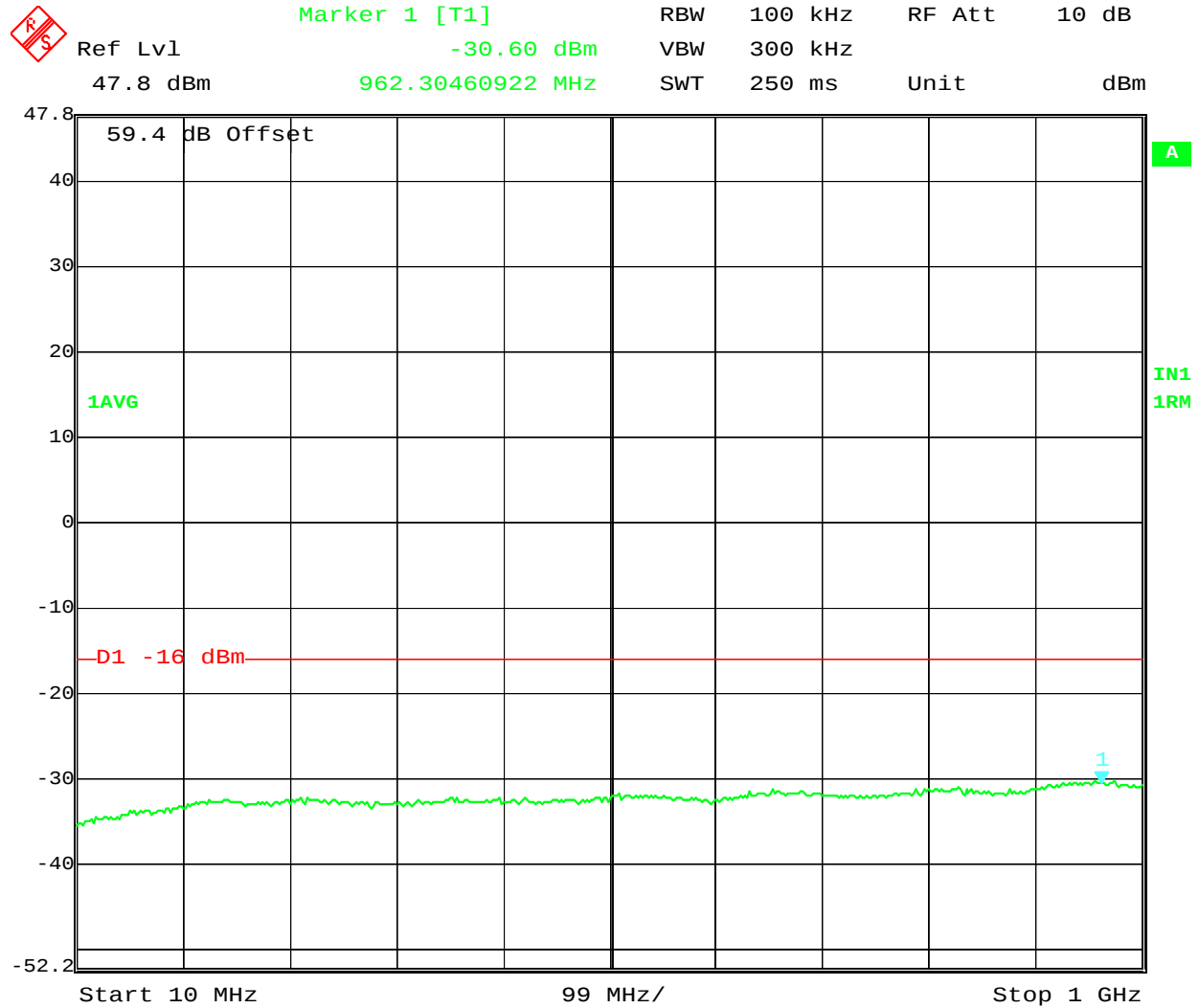
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 12.SEP.2013 10:51:23

**Transmit Port
Antenna Conducted Spurious Emissions**

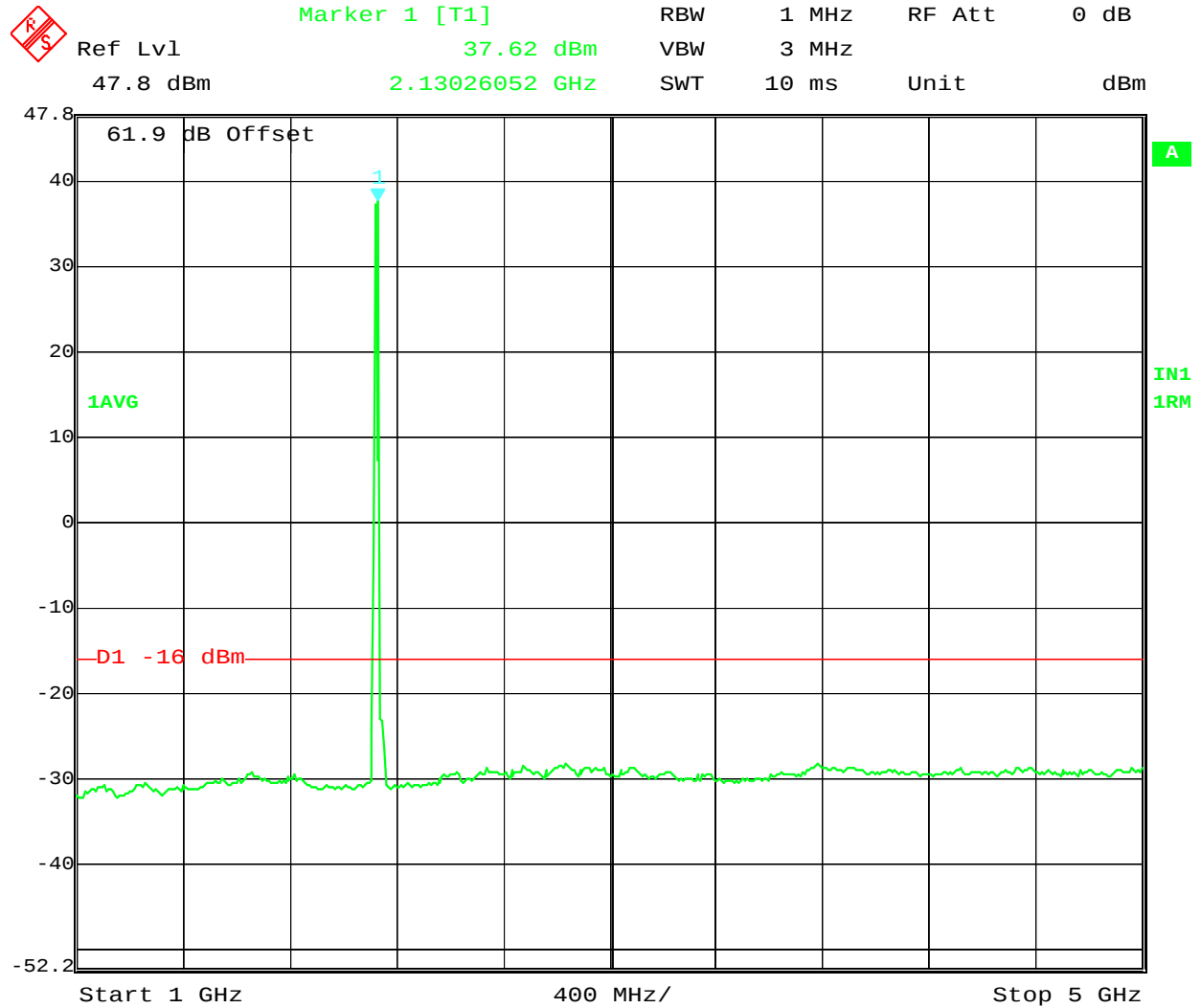
**Block: B+C
15 MHz BW Bandwidth (2120 – 2135 MHz)
2x60 watts (MIMO)
64QAM Modulation**



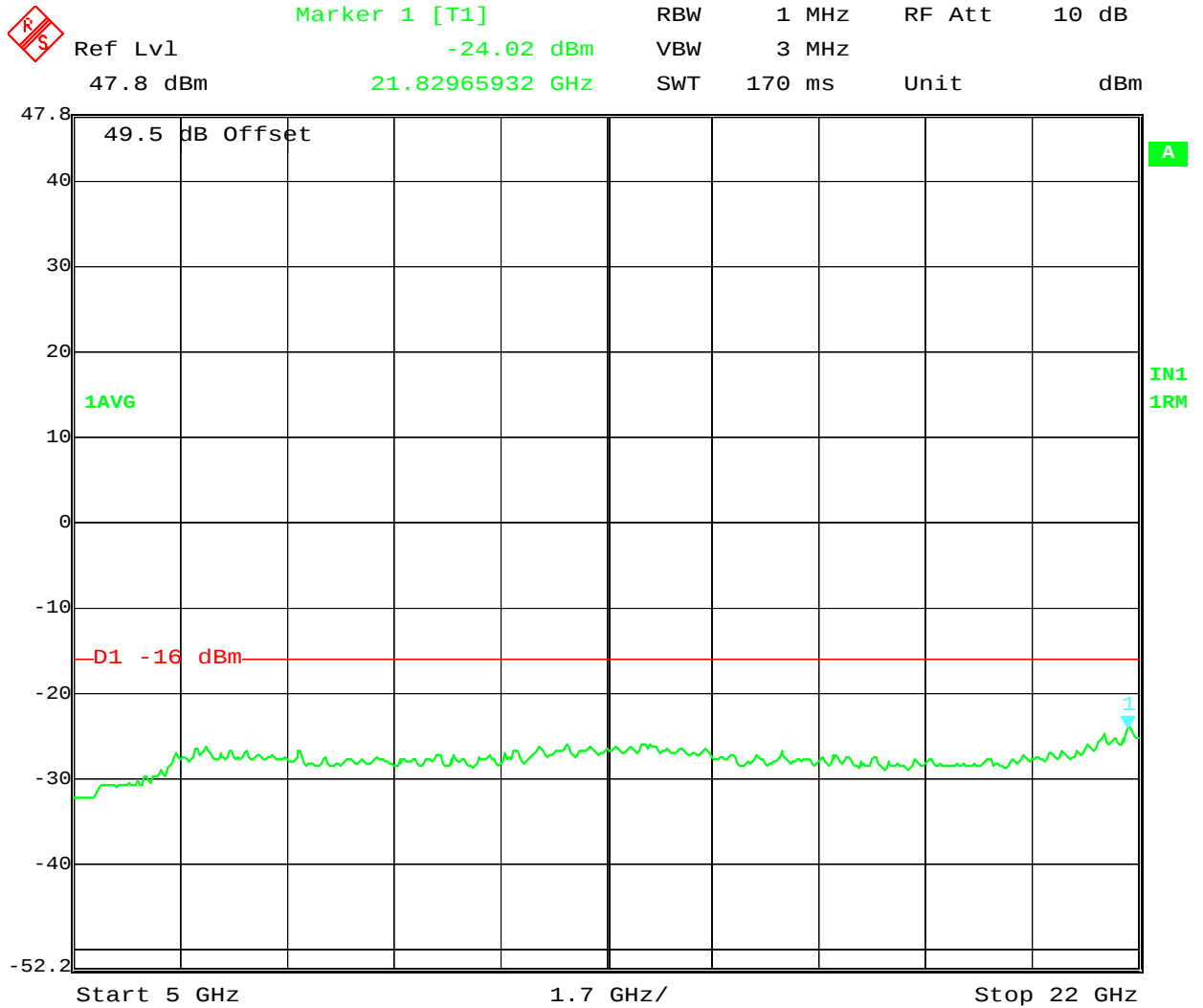
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 12.SEP.2013 10:56:40



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:57:20



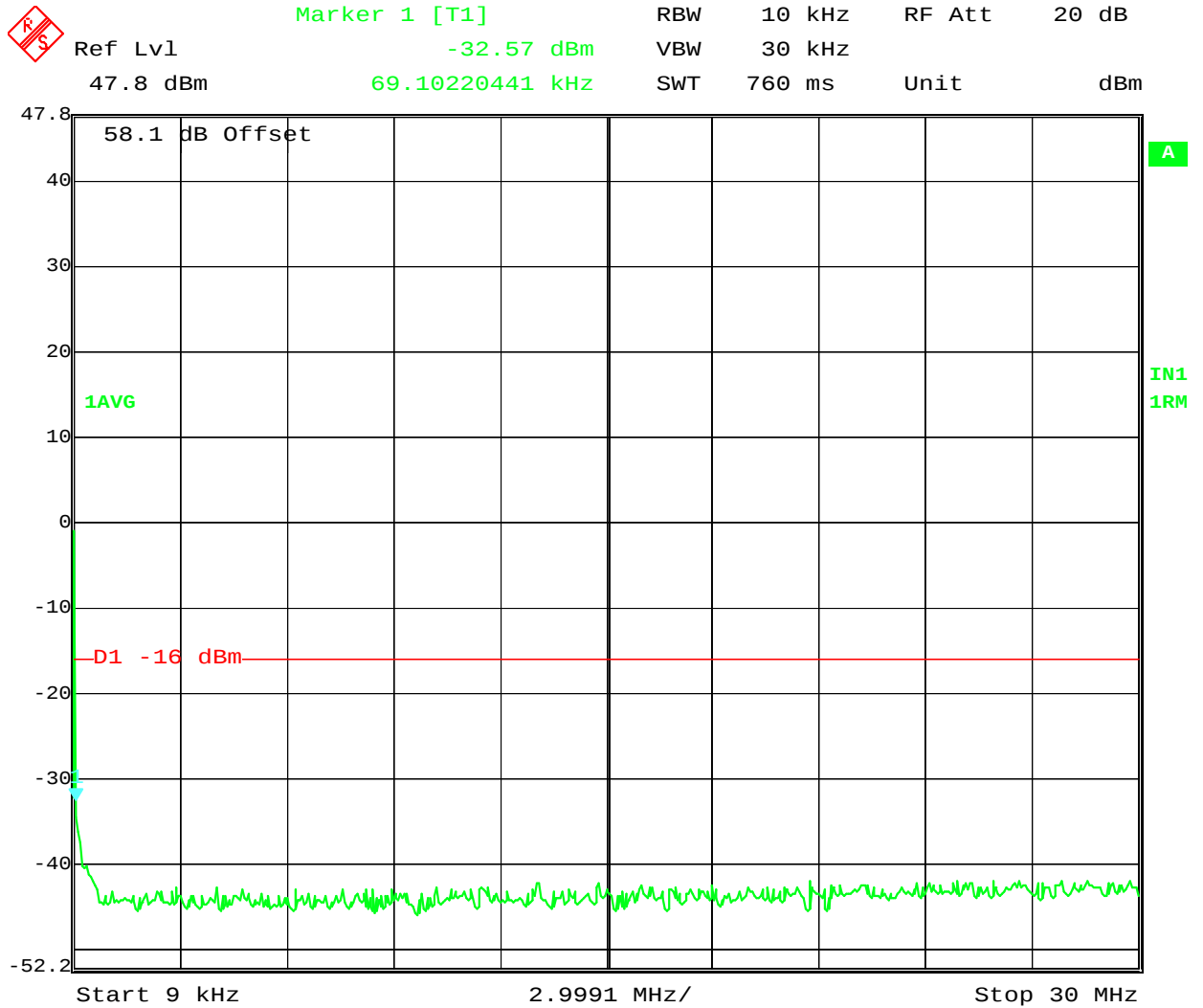
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:57:53



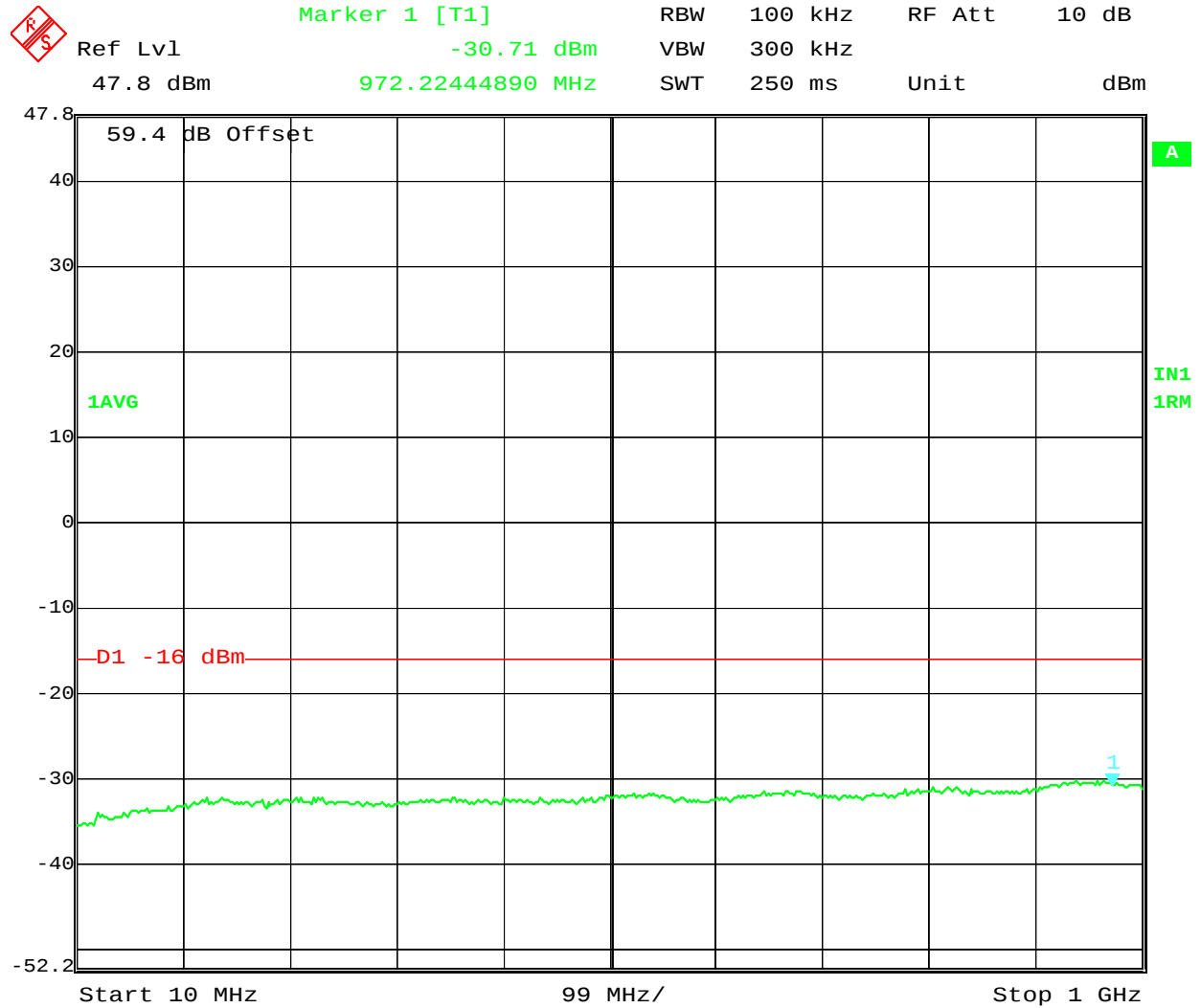
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B+C; 2127.5 MHz; 15MHz BW; PWR:60W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 10:58:29

**Transmit Port
Antenna Conducted Spurious Emissions**

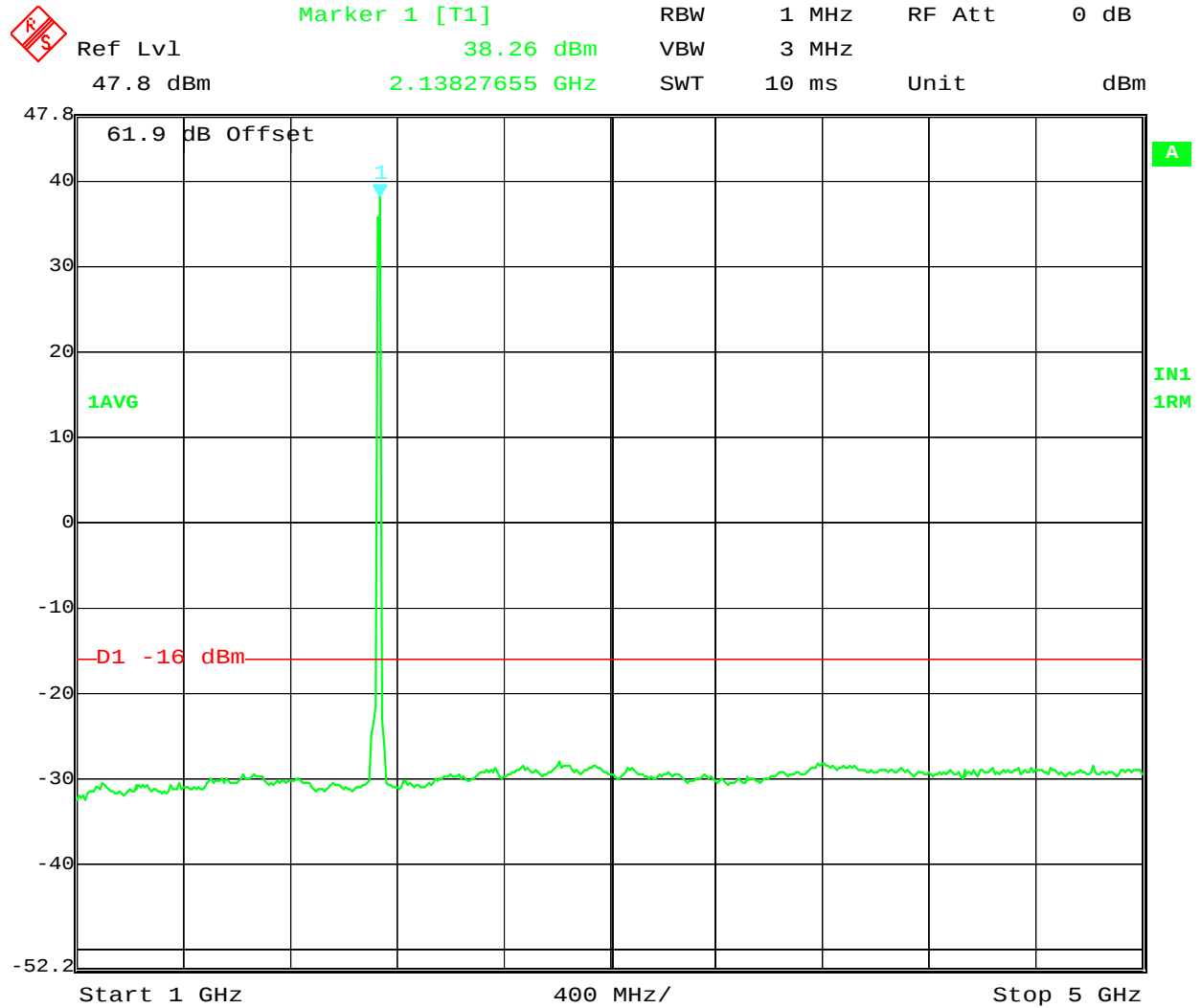
**Block: C+D+E
15 MHz BW Bandwidth (2130 – 2145 MHz)
2x60 (MIMO)
QPSK Modulation**



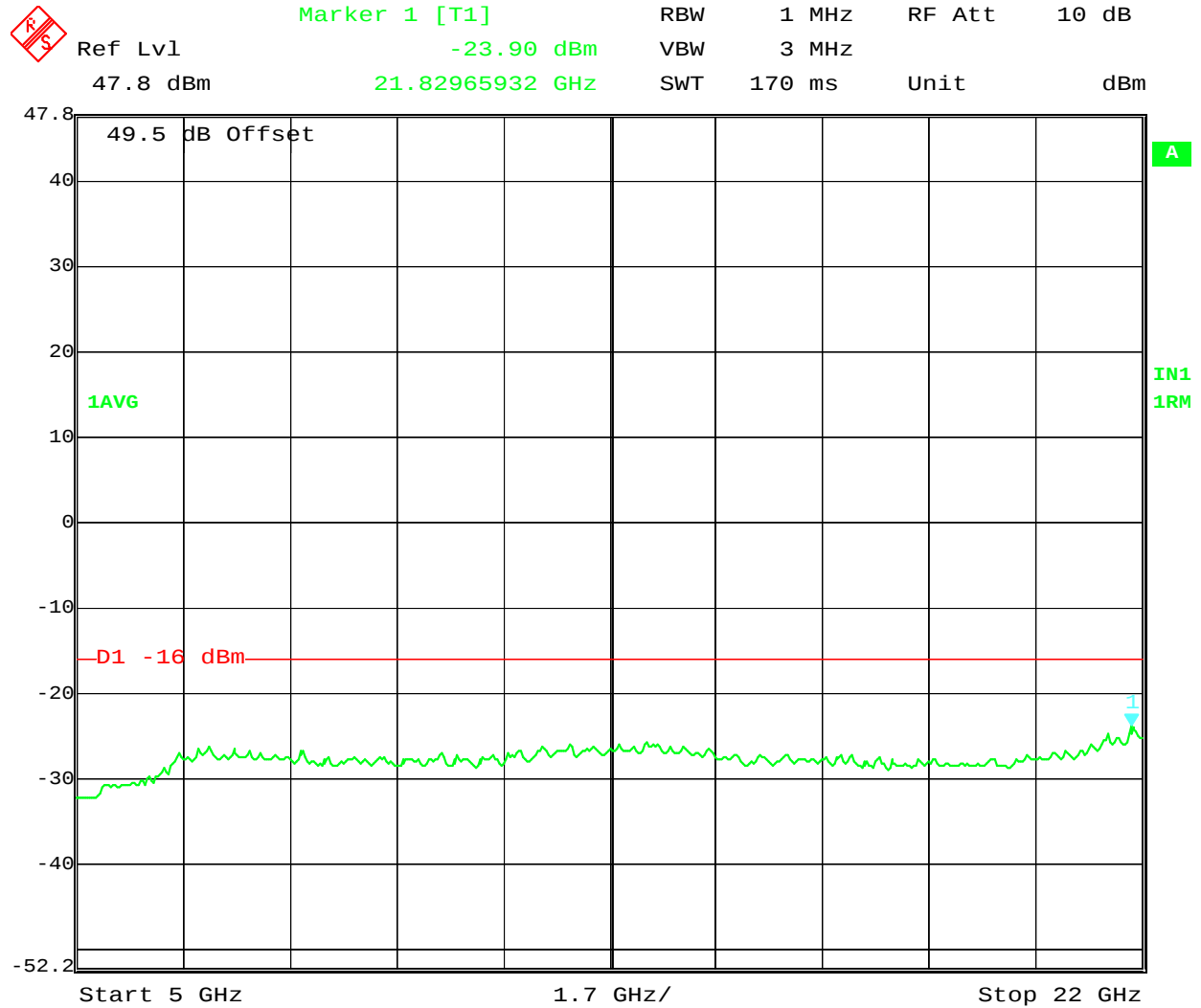
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 11:28:36



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 11:29:51



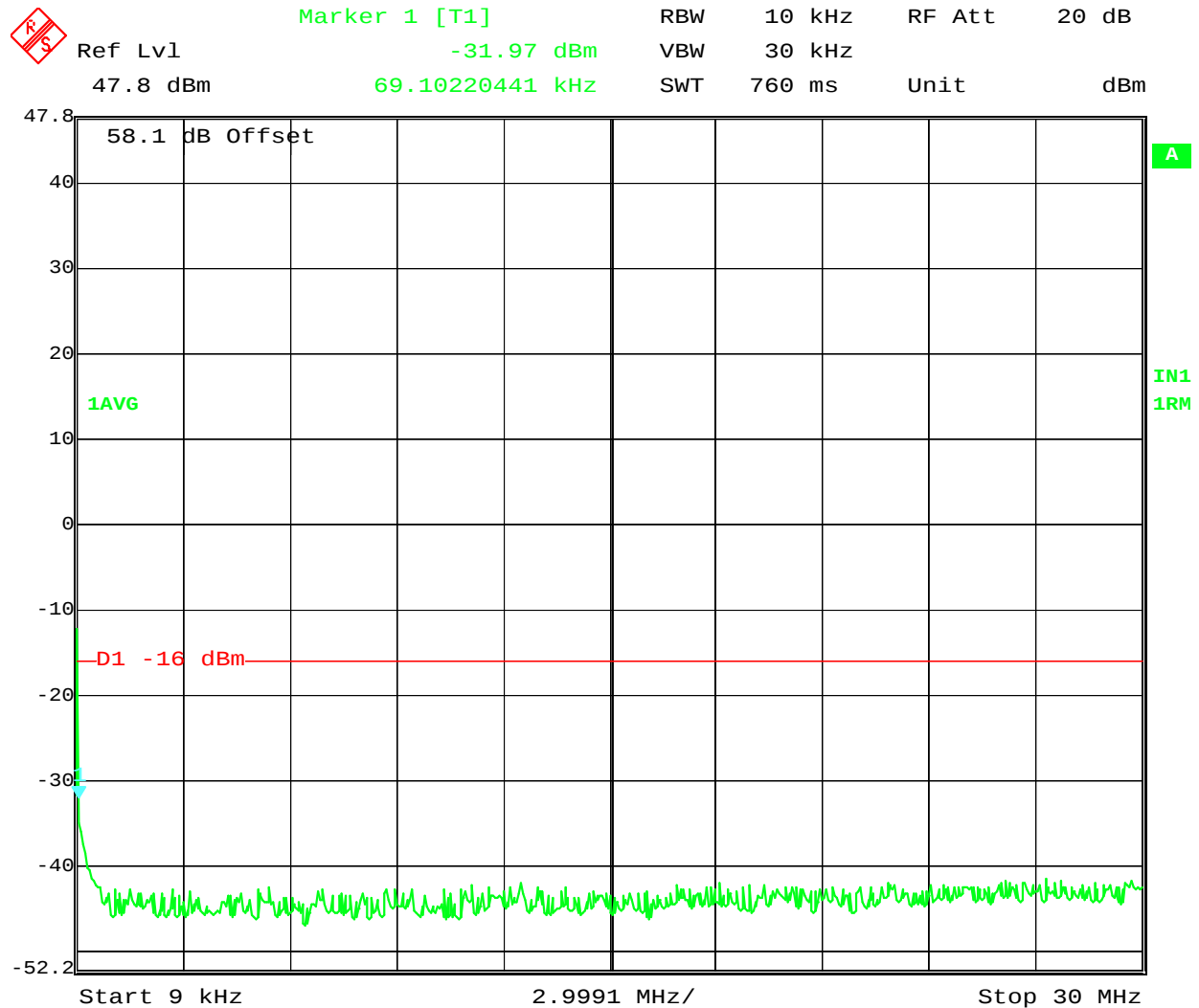
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 11:30:52



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 11:31:46

**Transmit Port
Antenna Conducted Spurious Emissions**

**Block: C+D+E
15 MHz BW Bandwidth (2130 – 2145 MHz)
2x60 (MIMO)
16QAM Modulation**

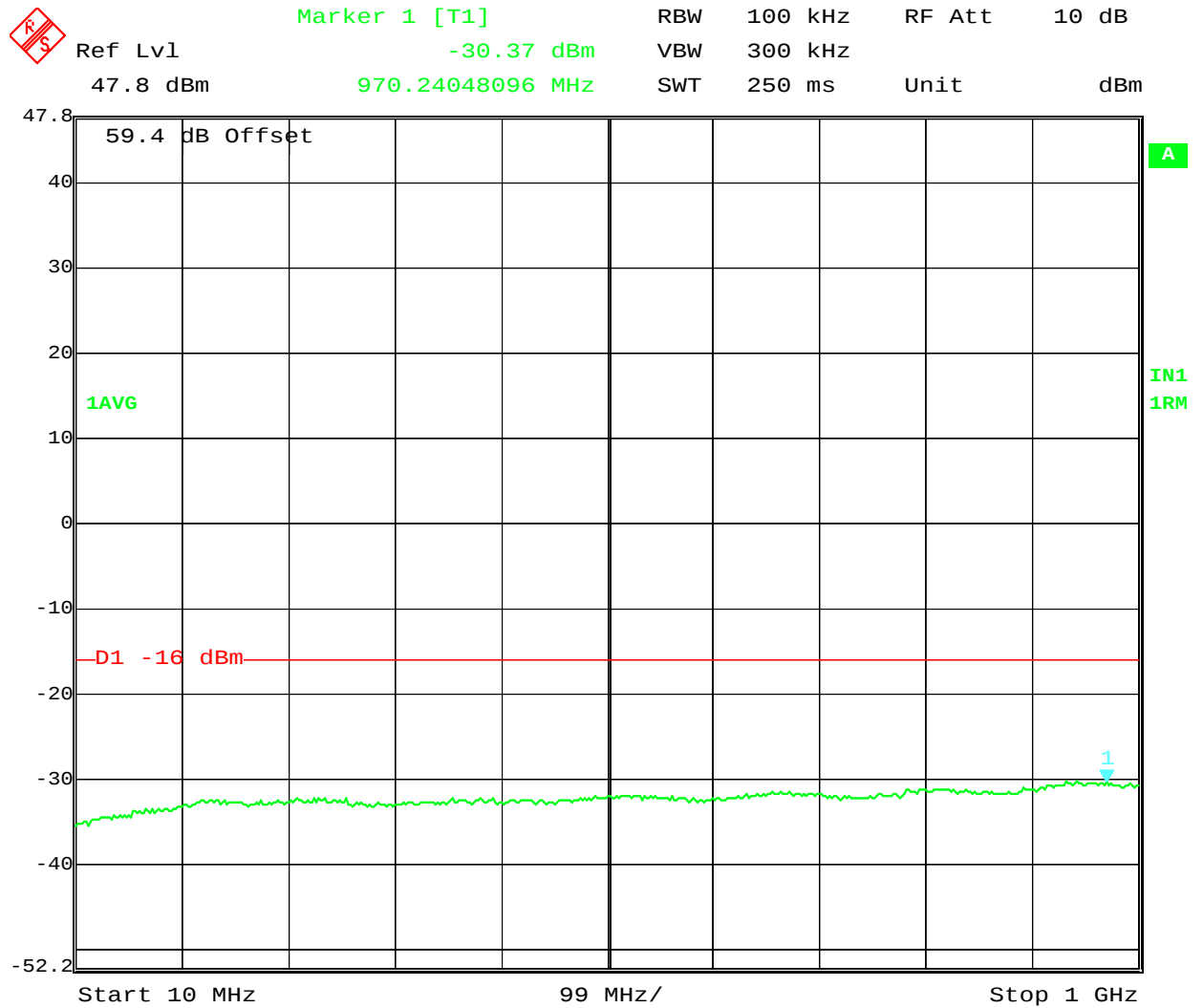


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

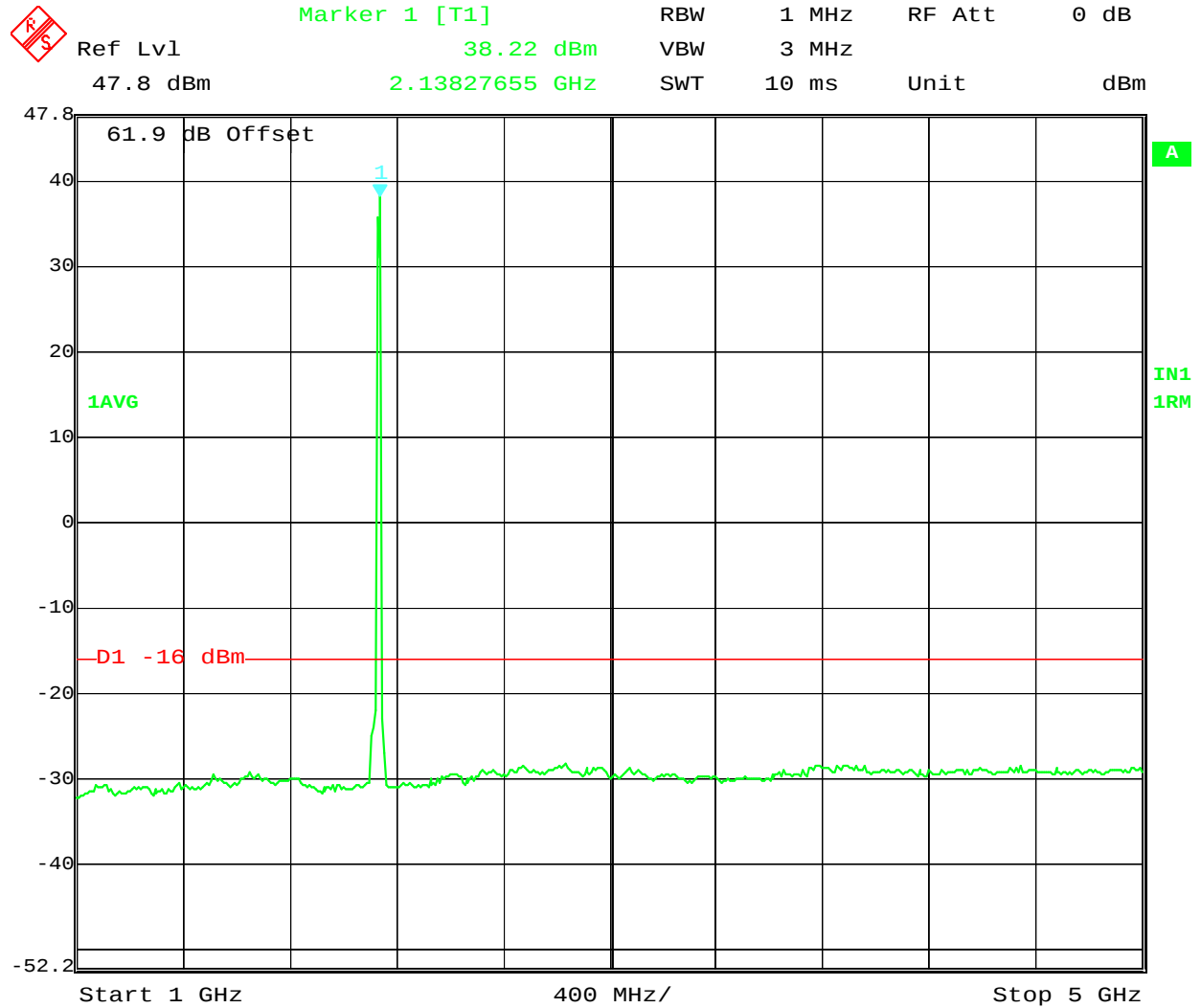
Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W

16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

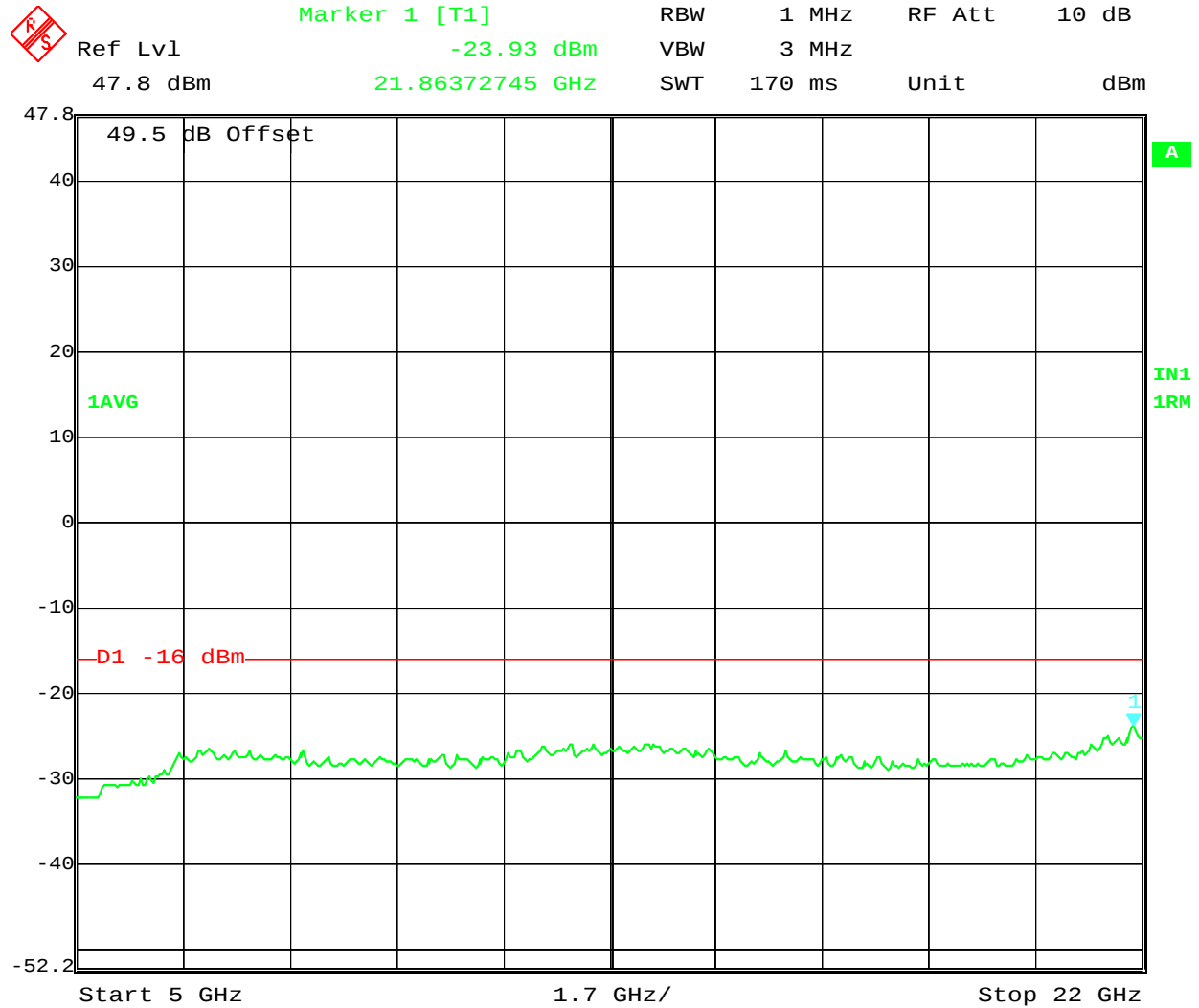
Date: 12.SEP.2013 11:48:18



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 11:48:54



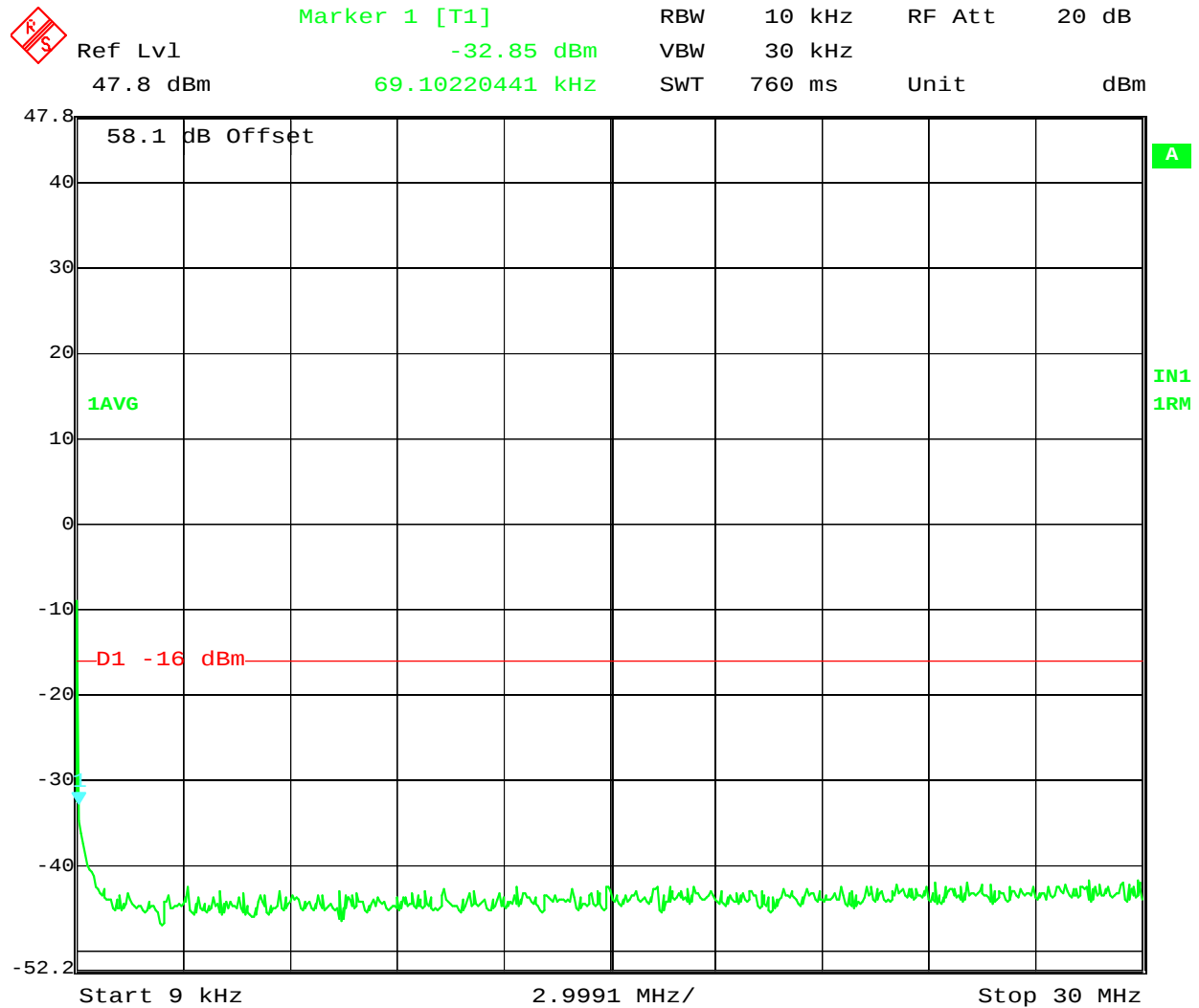
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 12.SEP.2013 11:49:26



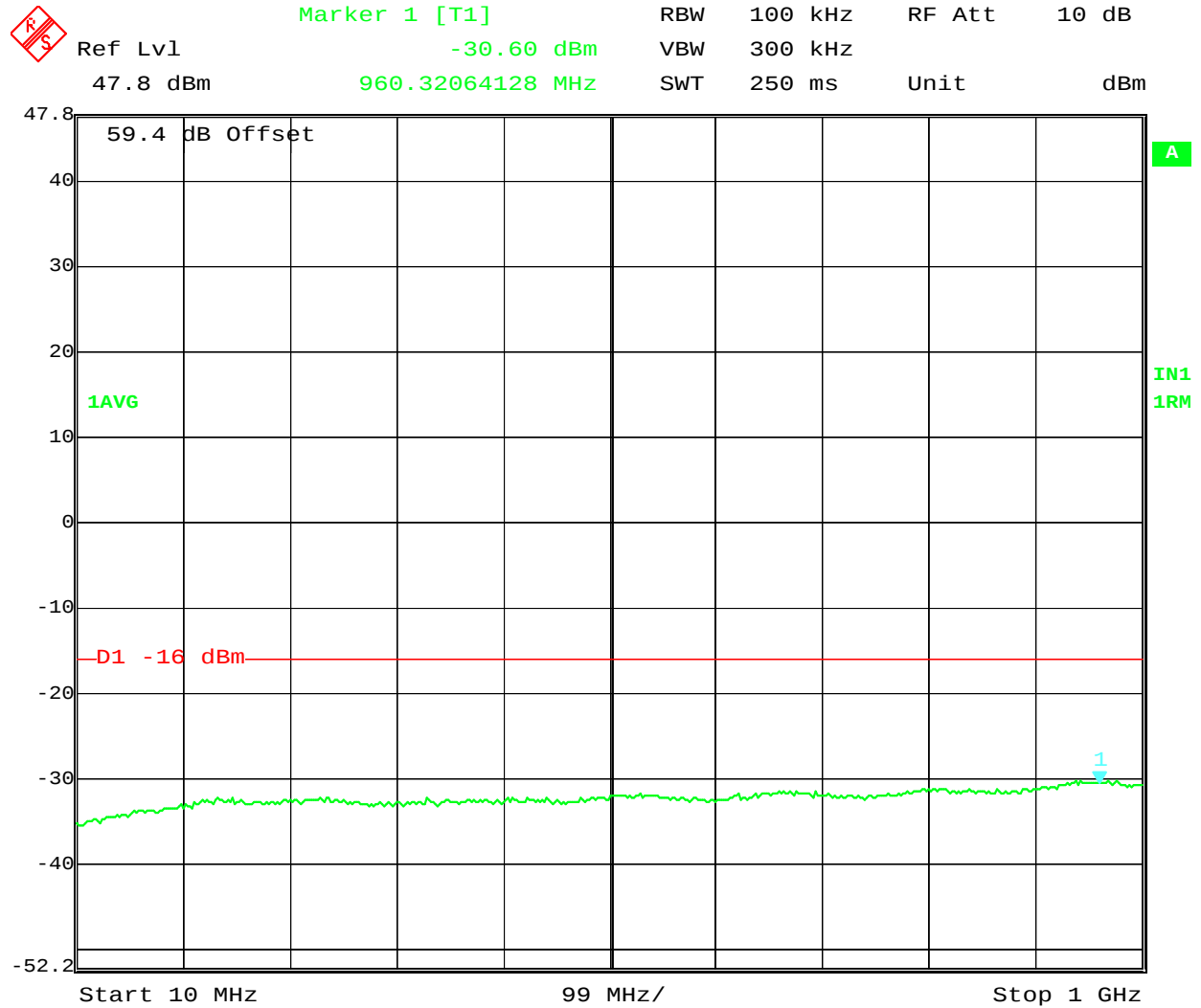
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 12.SEP.2013 11:49:58

Transmit Port
Antenna Conducted Spurious Emissions

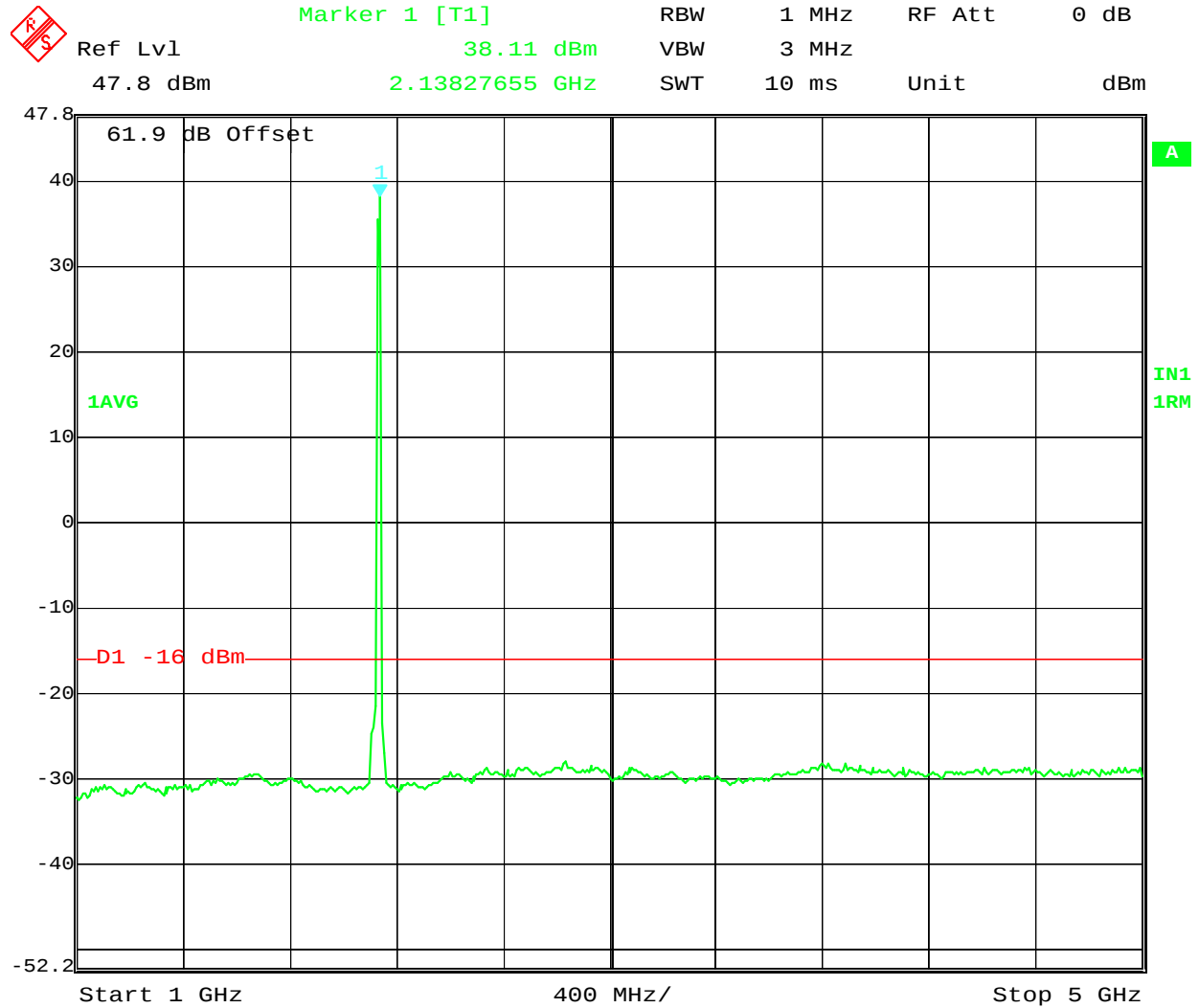
Block: C+D+E
15 MHz BW Bandwidth (2130 – 2145 MHz)
2x60 (MIMO)
64QAM Modulation



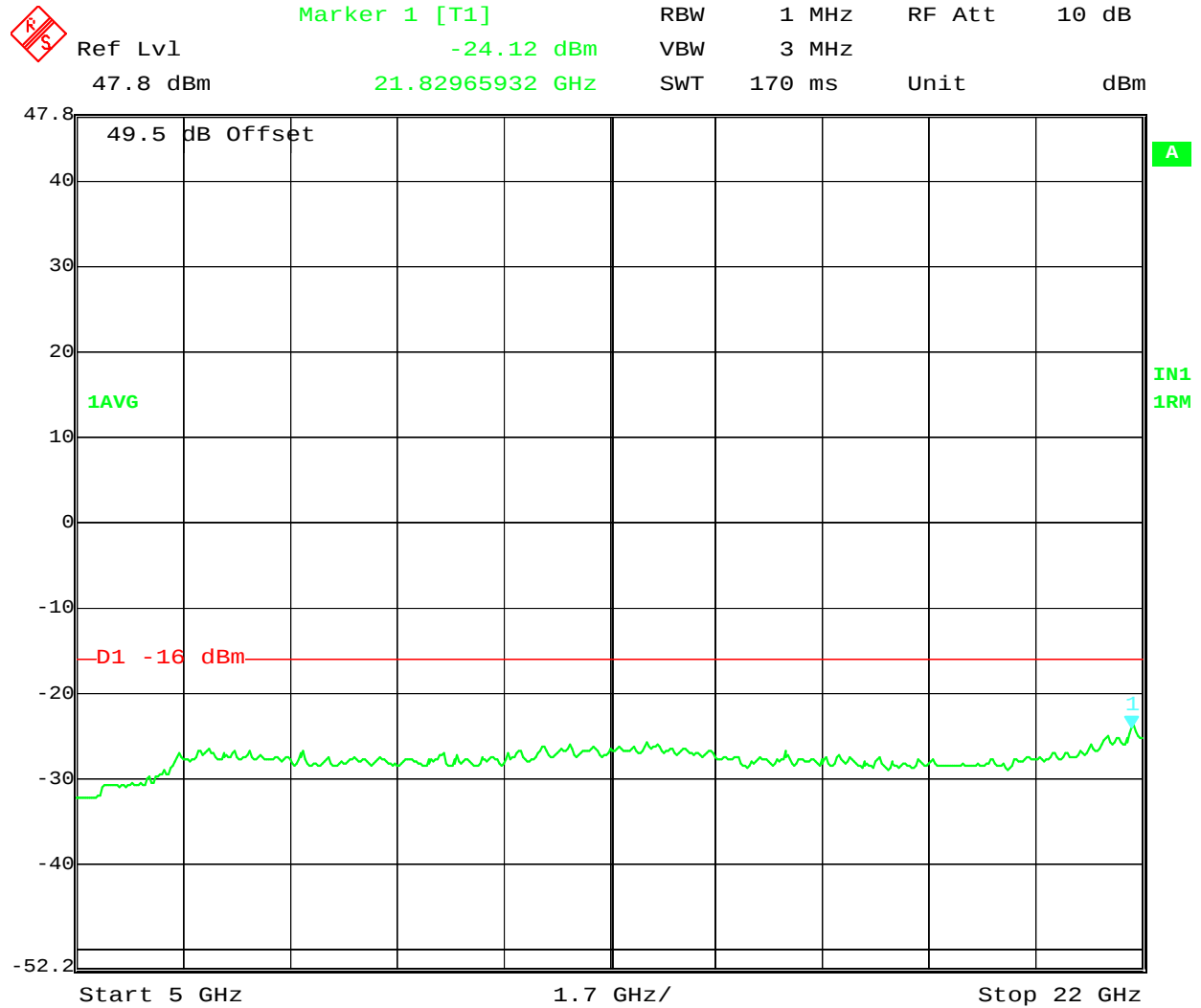
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 04:17:58



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 04:18:36



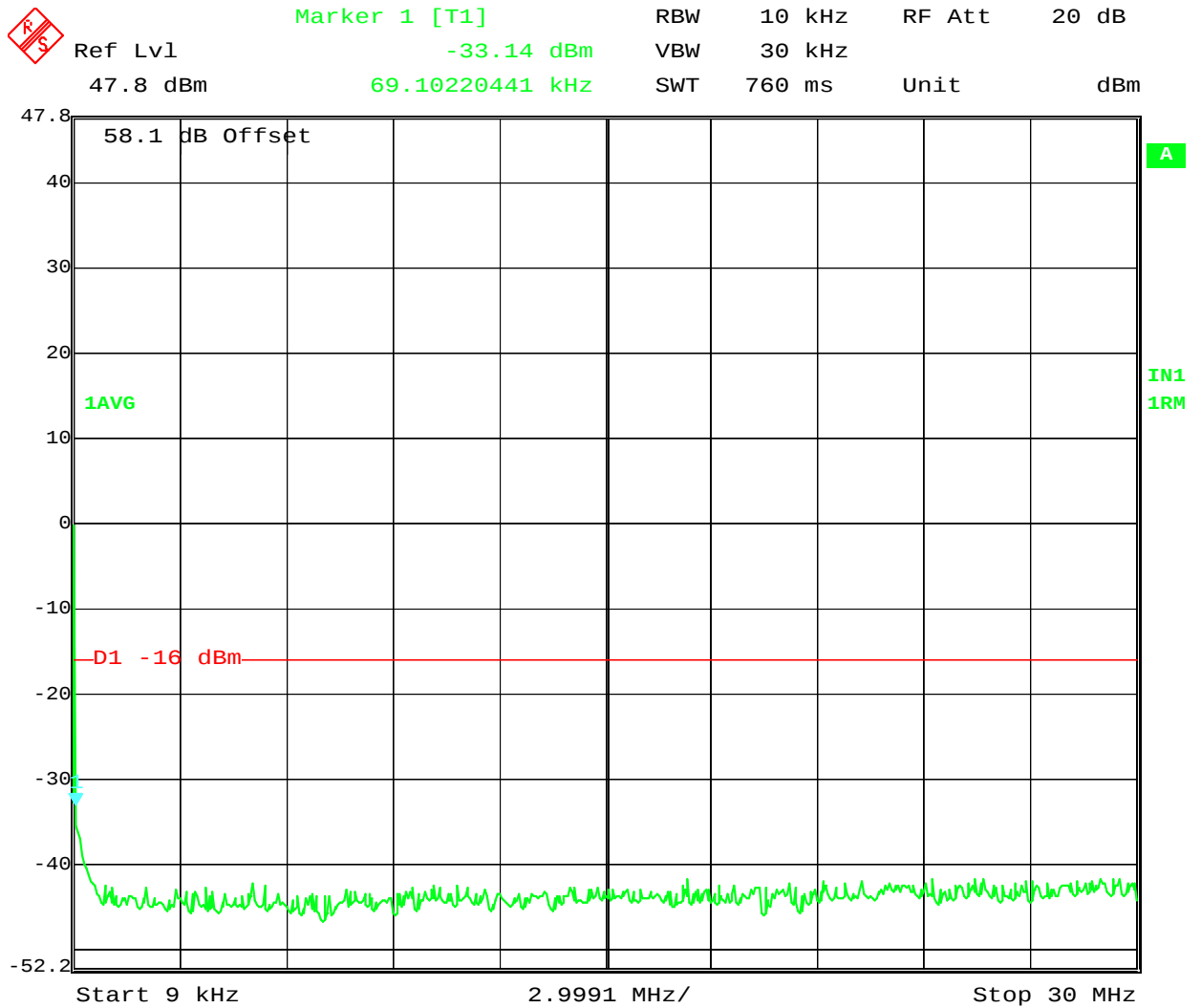
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 04:19:12



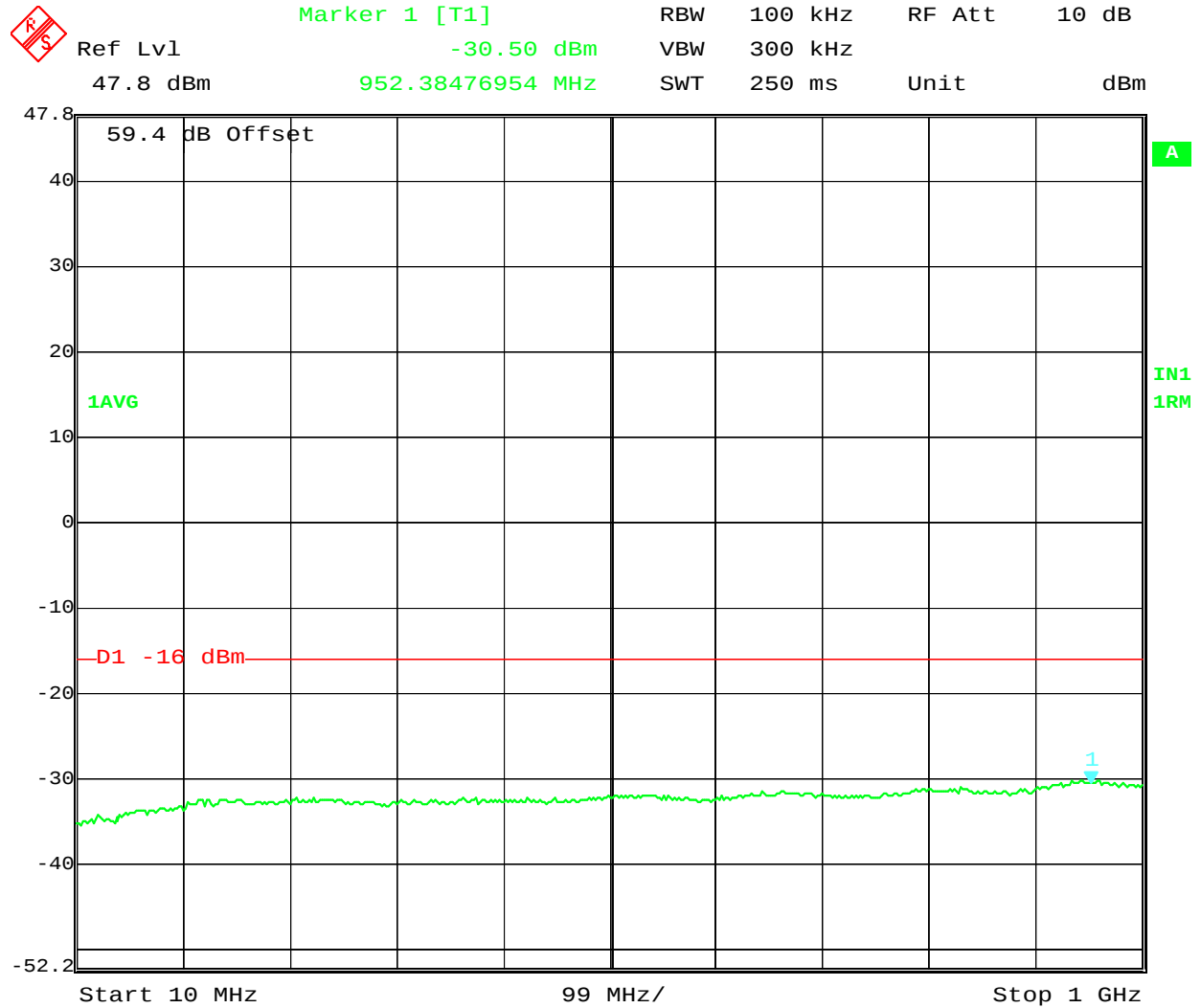
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D+E; 2137.5 MHz; 15MHz BW; PWR:60W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 04:19:57

**Transmit Port
Antenna Conducted Spurious Emissions**

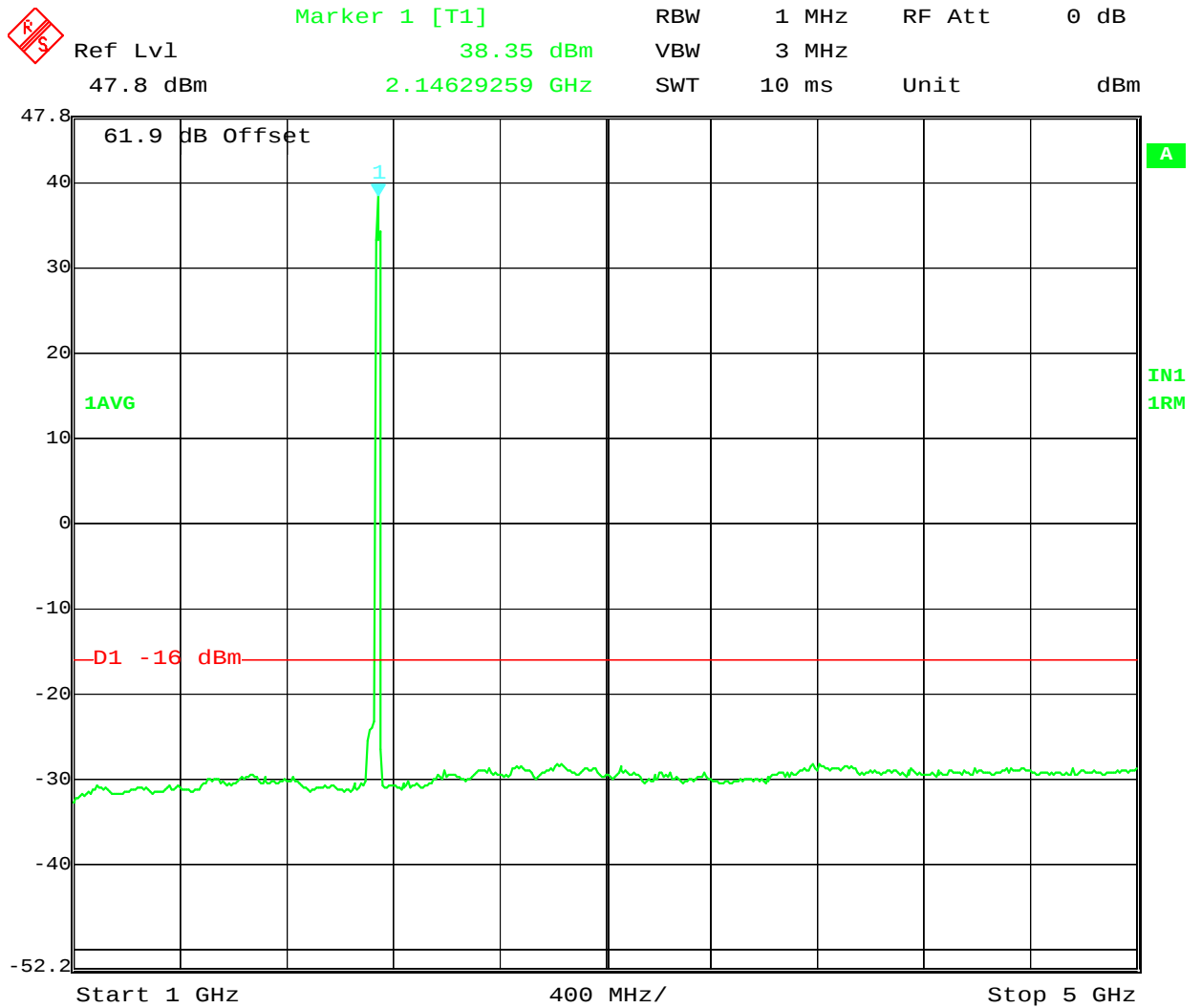
**Block: E+F
15MHz BW Bandwidth (2140 – 2155 MHz)
2x60 (MIMO)
QPSK Modulation**



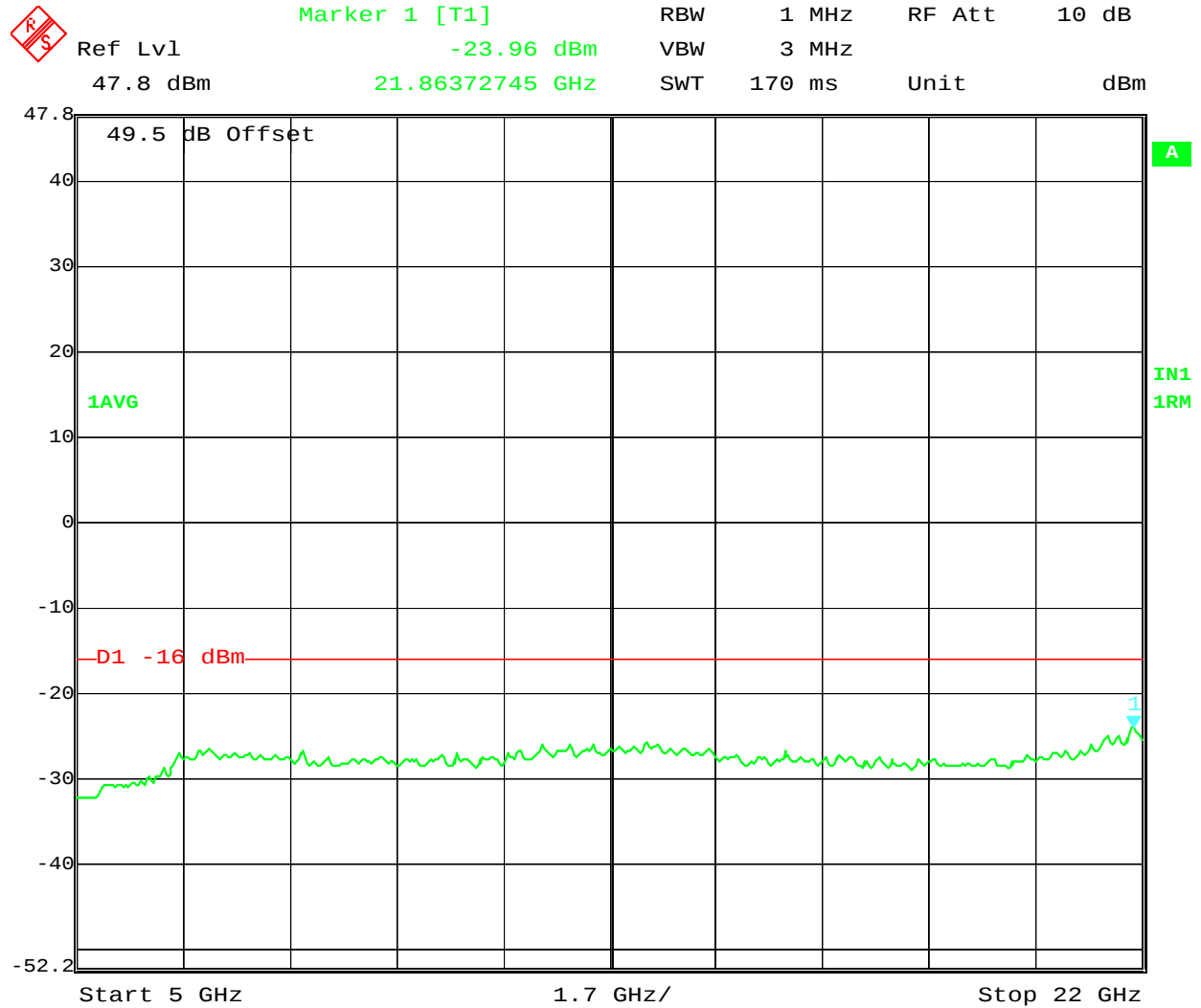
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 08:14:54



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:15:30



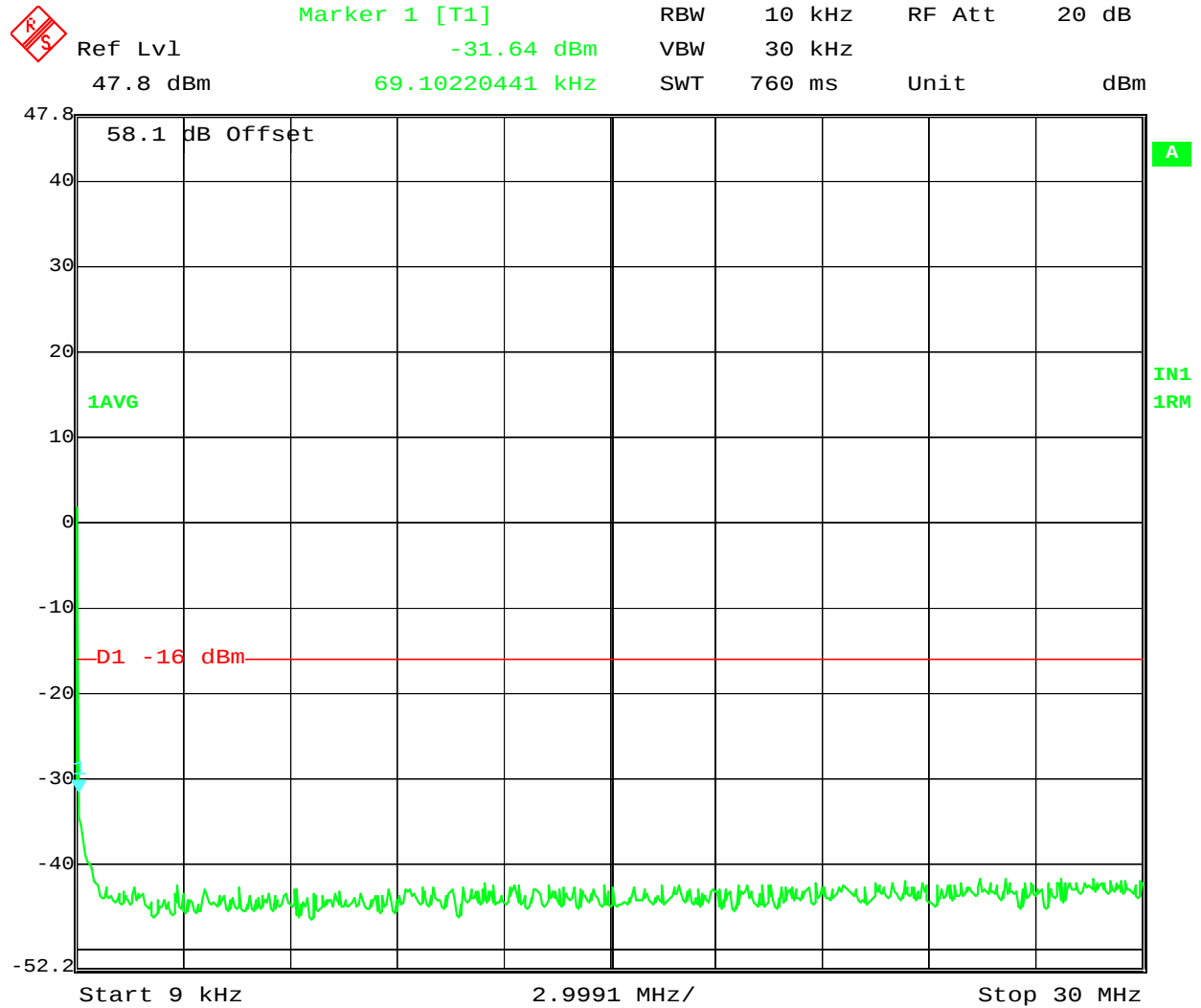
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
QPSK; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 08:16:06



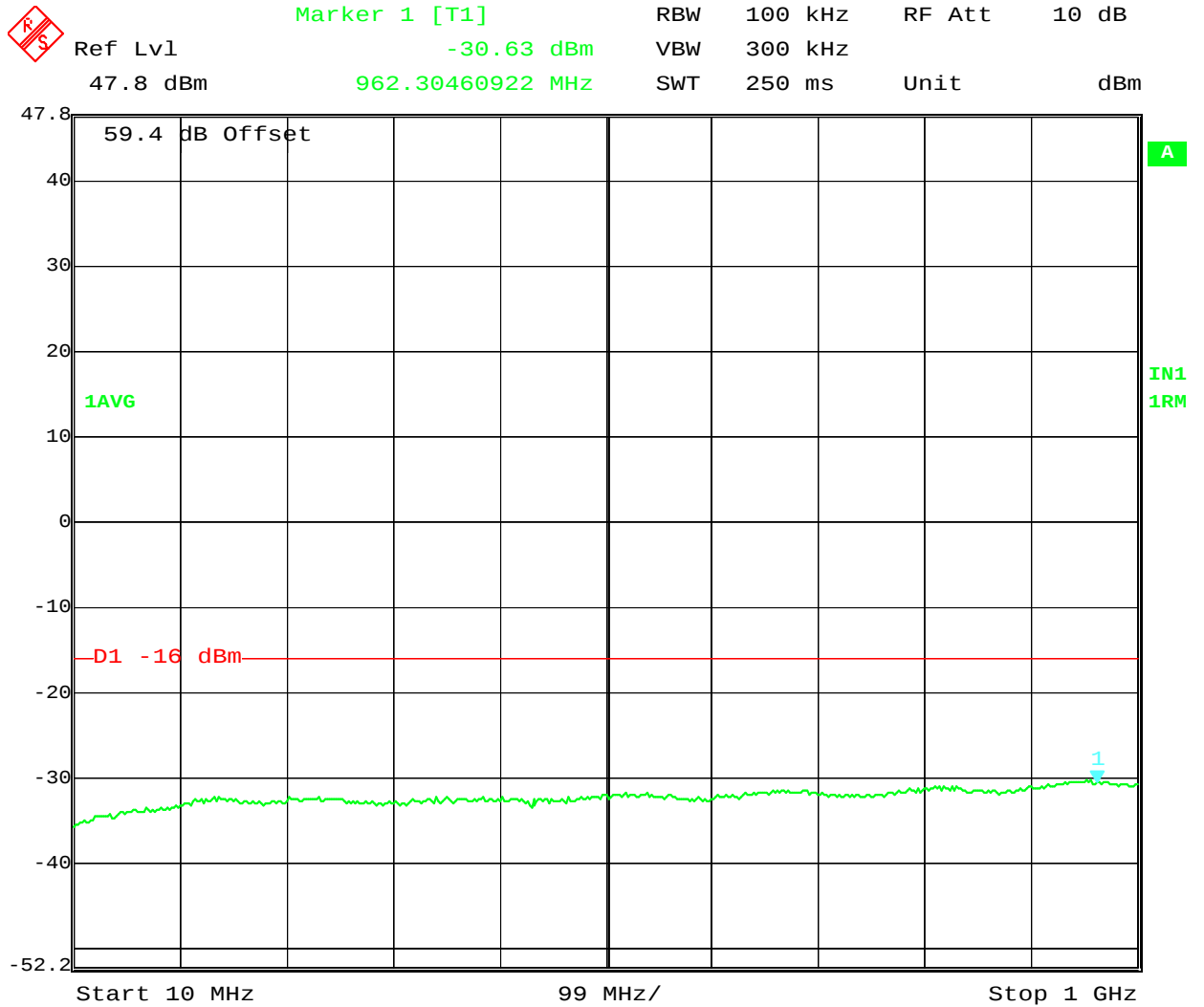
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 QPSK; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 08:16:42

**Transmit Port
Antenna Conducted Spurious Emissions**

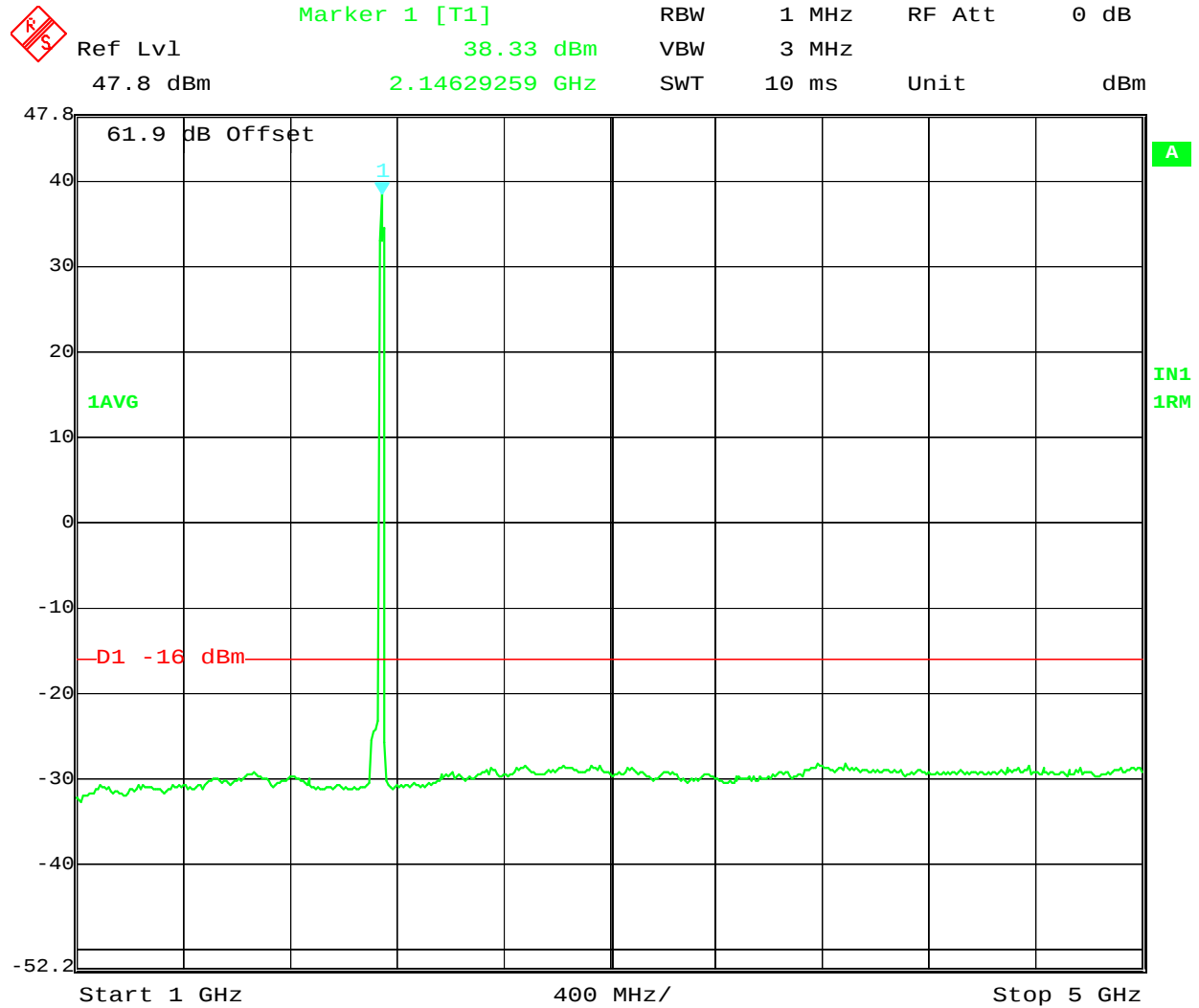
**Block: E+F
15MHz BW Bandwidth (2140 – 2155 MHz)
2x60 (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 07:12:15



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 16QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 07:12:45

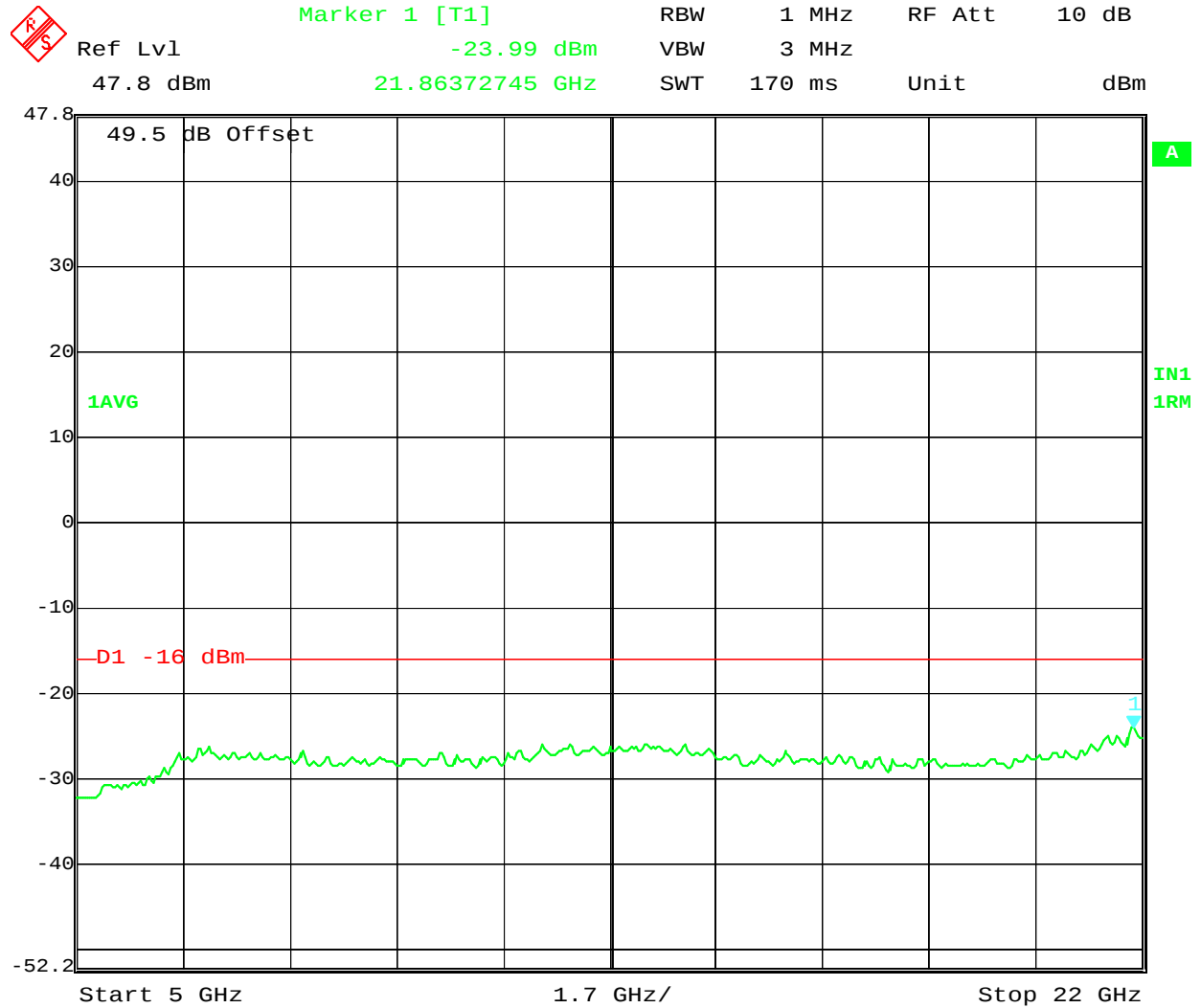


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W

16QAM; FCC PRT 27; FCCID:AS5BBTRX-13

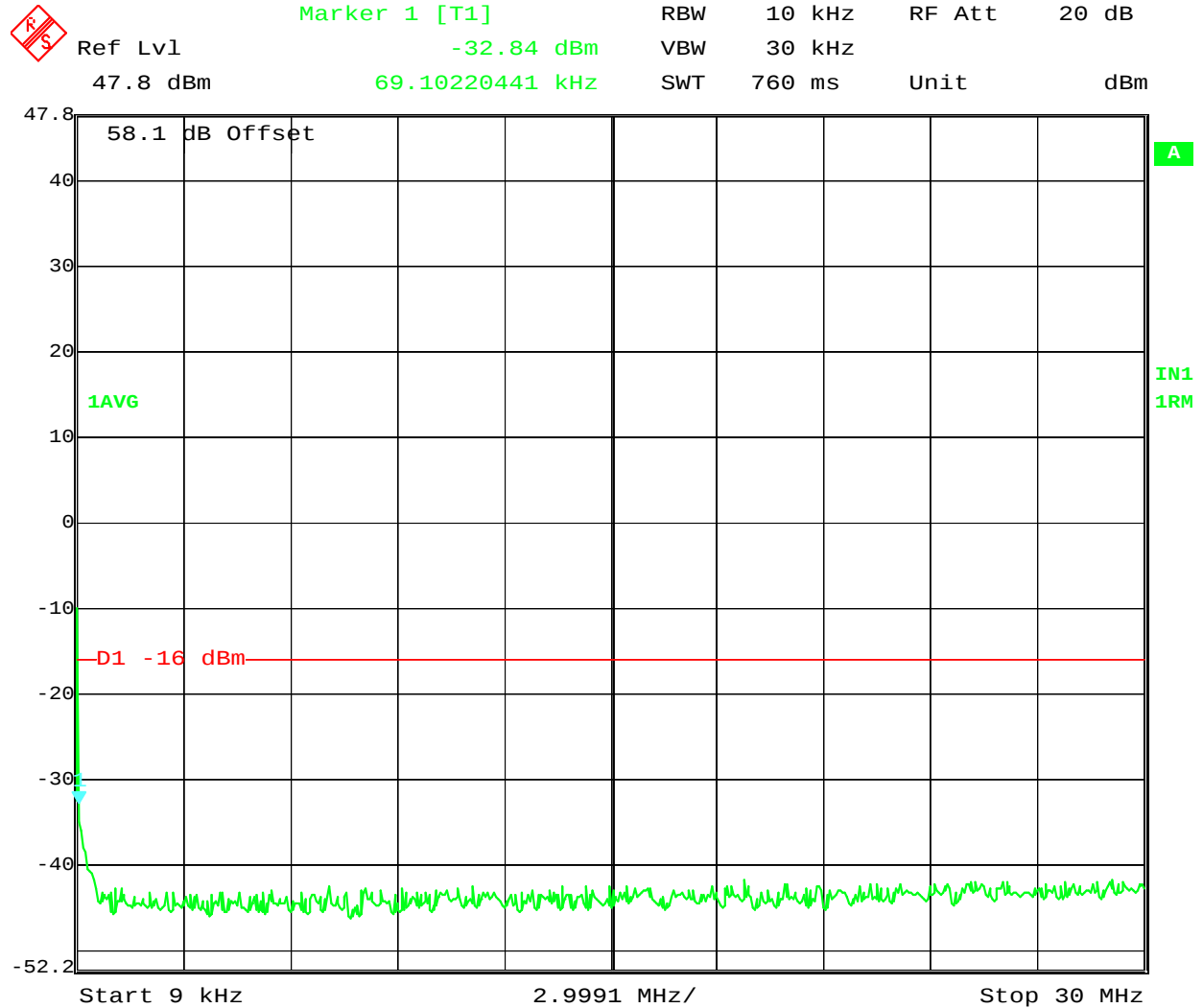
Date: 13.SEP.2013 07:13:16



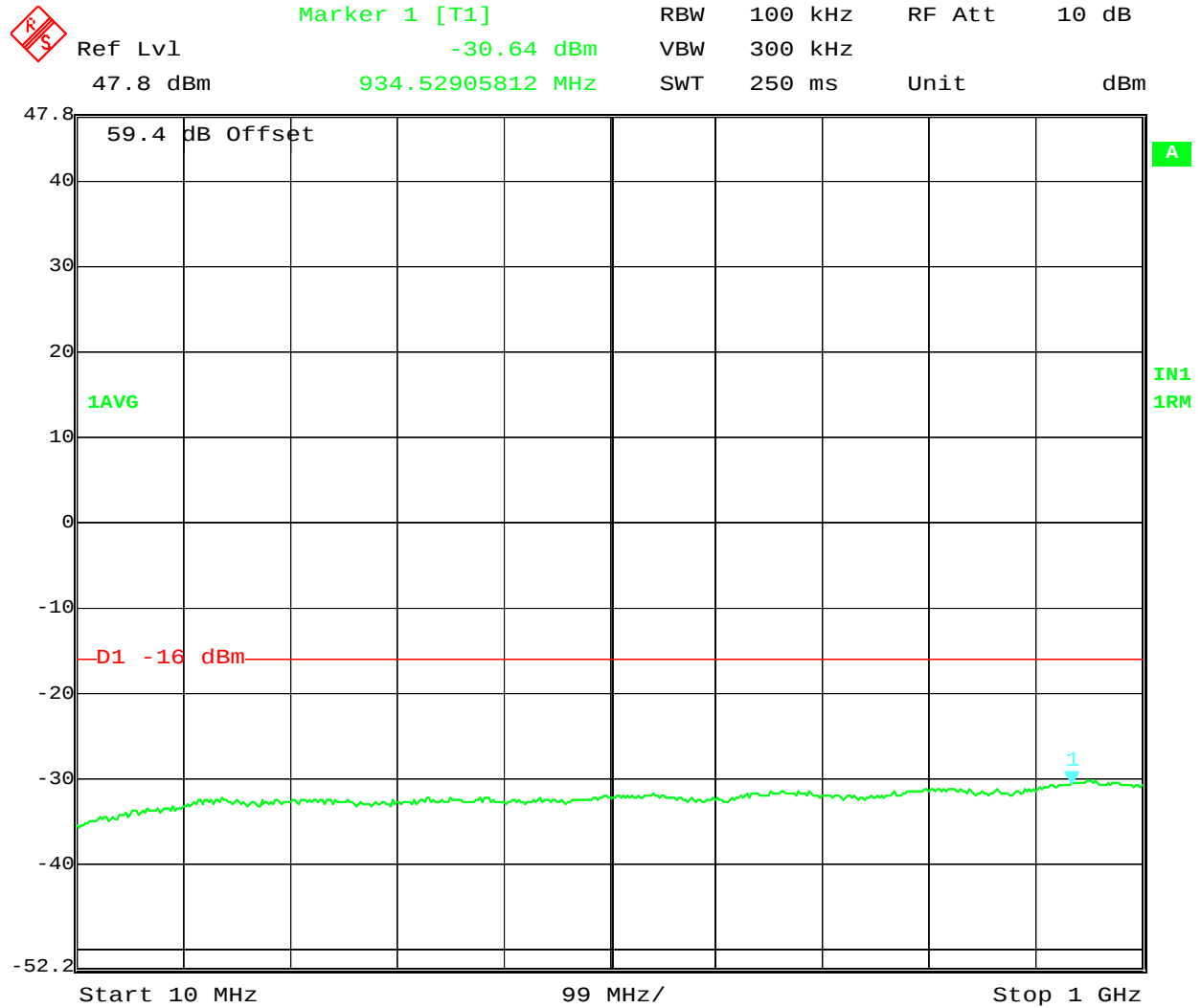
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 16QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 07:13:45

**Transmit Port
Antenna Conducted Spurious Emissions**

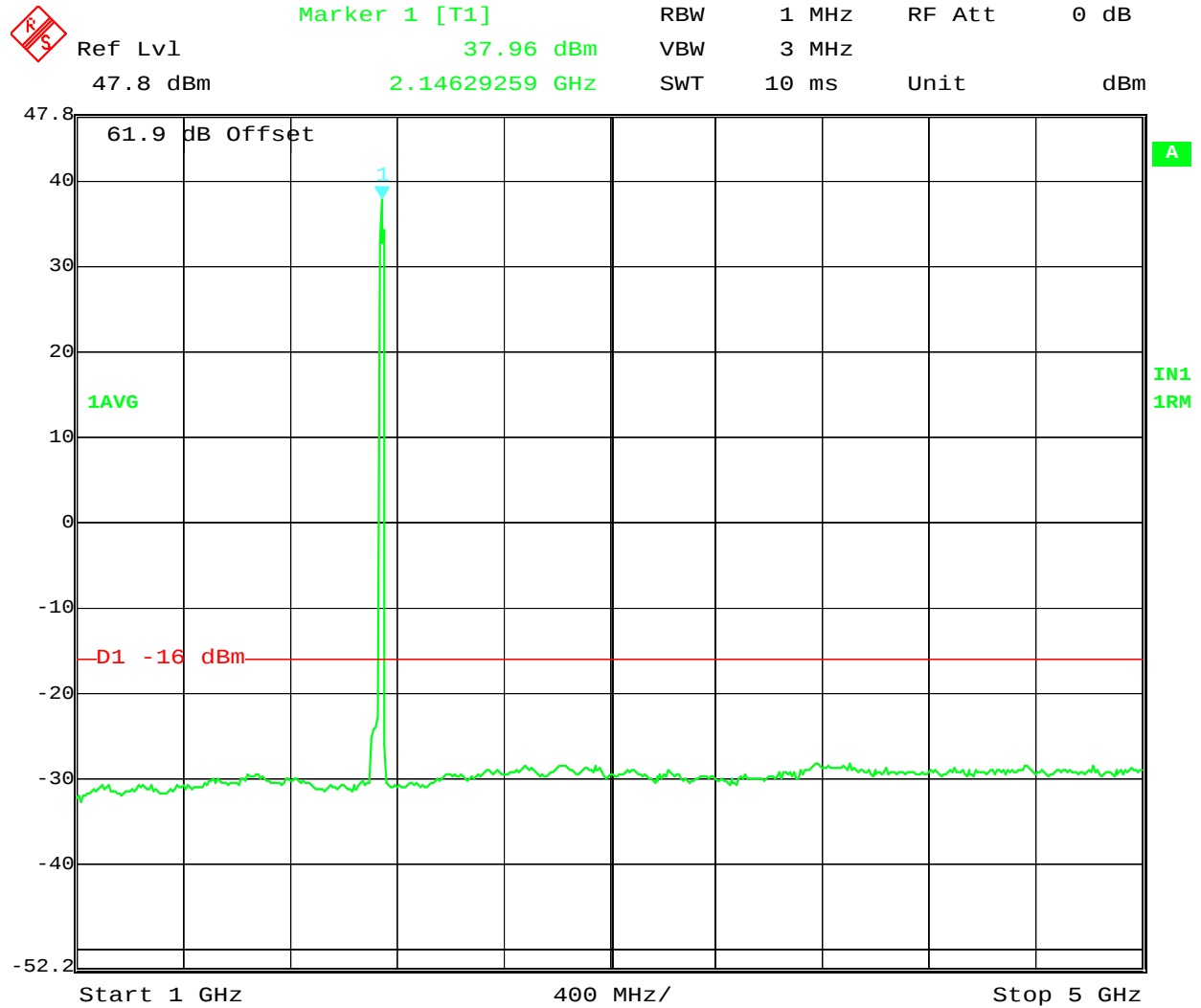
**Block: E+F
15MHz BW Bandwidth (2140 – 2155 MHz)
2x60 (MIMO)
64QAM Modulation**



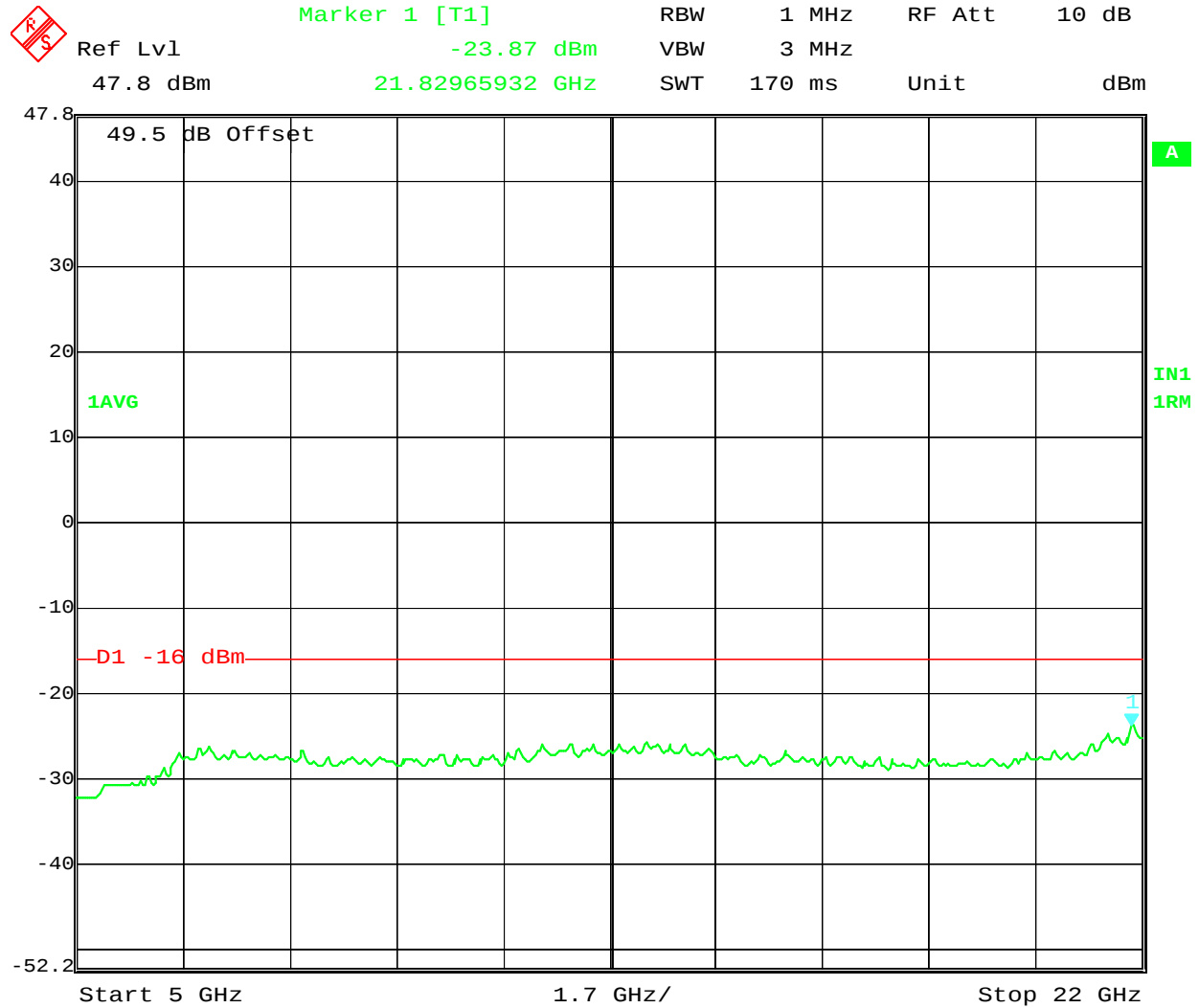
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
Date: 13.SEP.2013 06:59:18



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 06:59:47



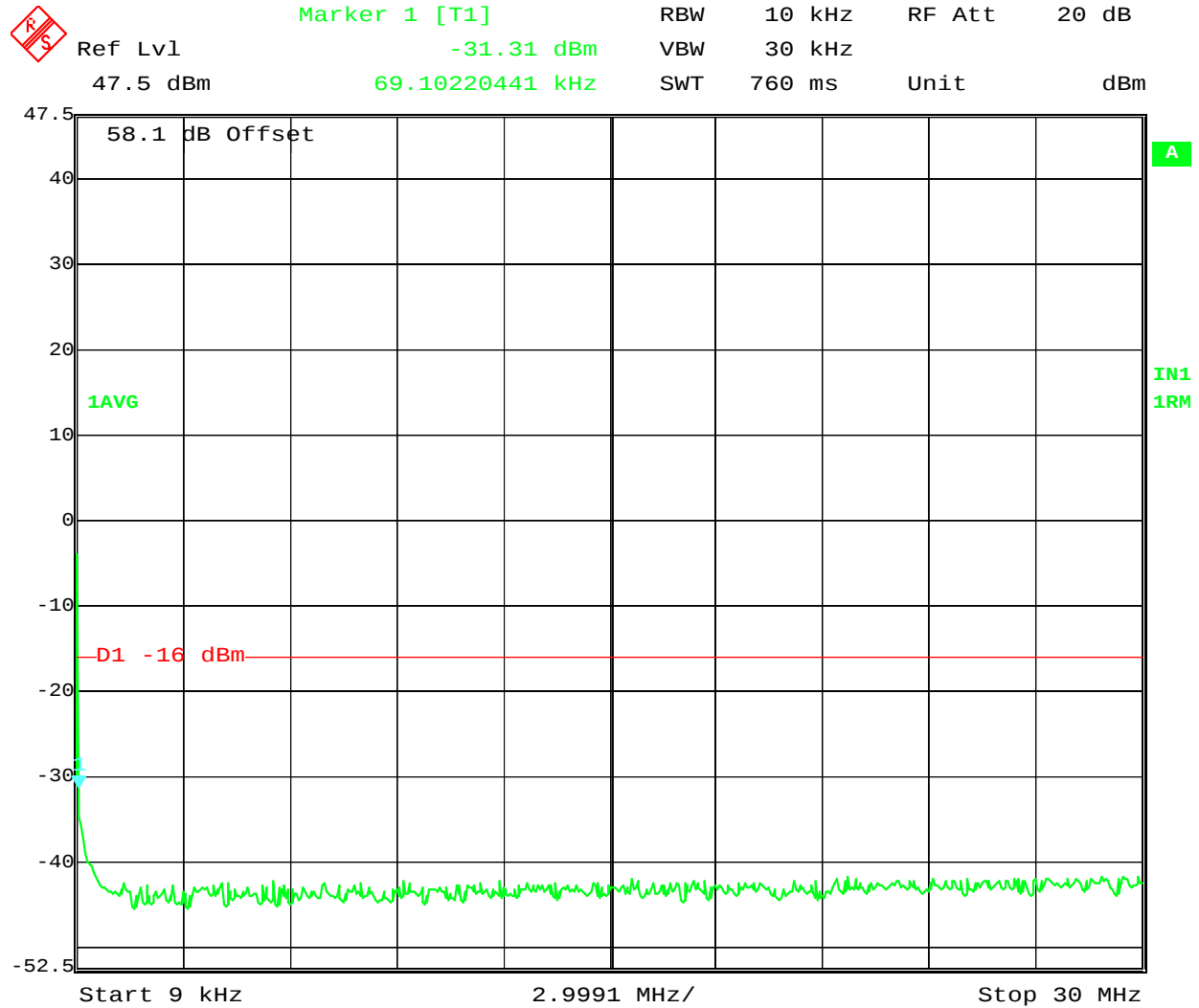
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 64QAM; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 07:00:24



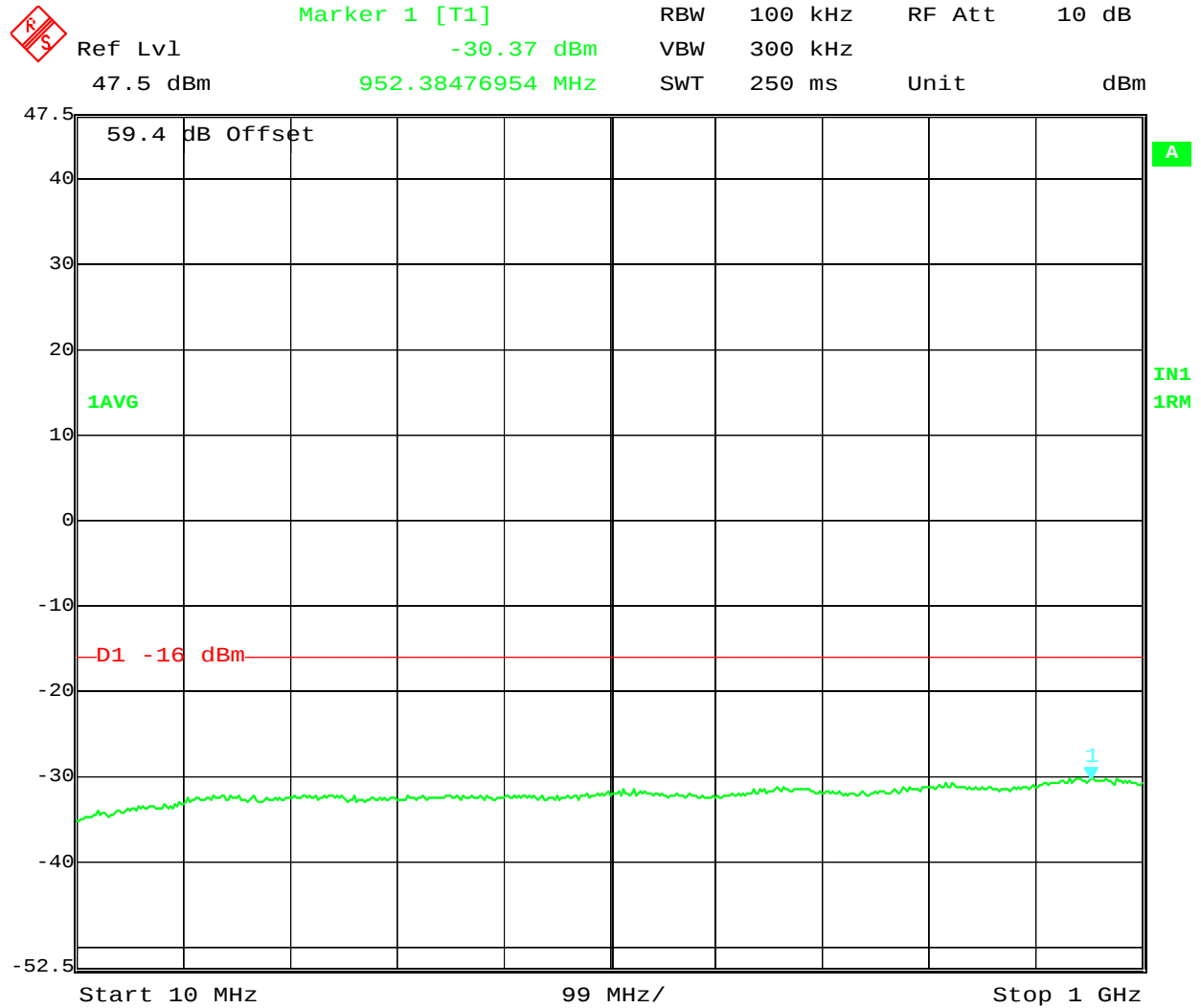
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK E+F; 2147.5 MHz; 15MHz BW; PWR:60W
 64QAM; HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 13.SEP.2013 06:58:35

**Transmit Port
Antenna Conducted Spurious Emissions**

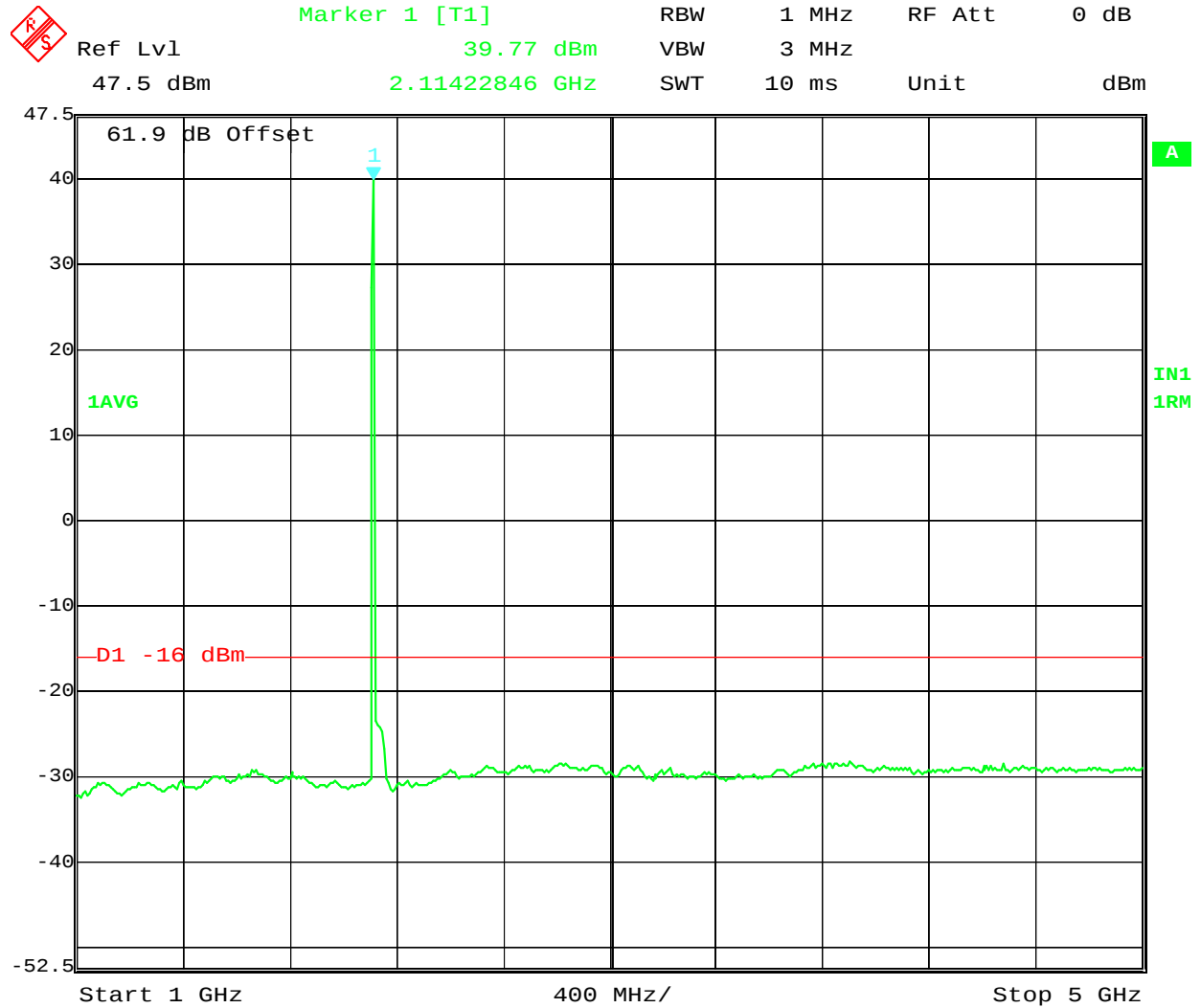
**Block: A
10 MHz Bandwidth (2110-2120 MHz)
2x60 watts (MIMO)
QPSK Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:27:40



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:28:30



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:29:24

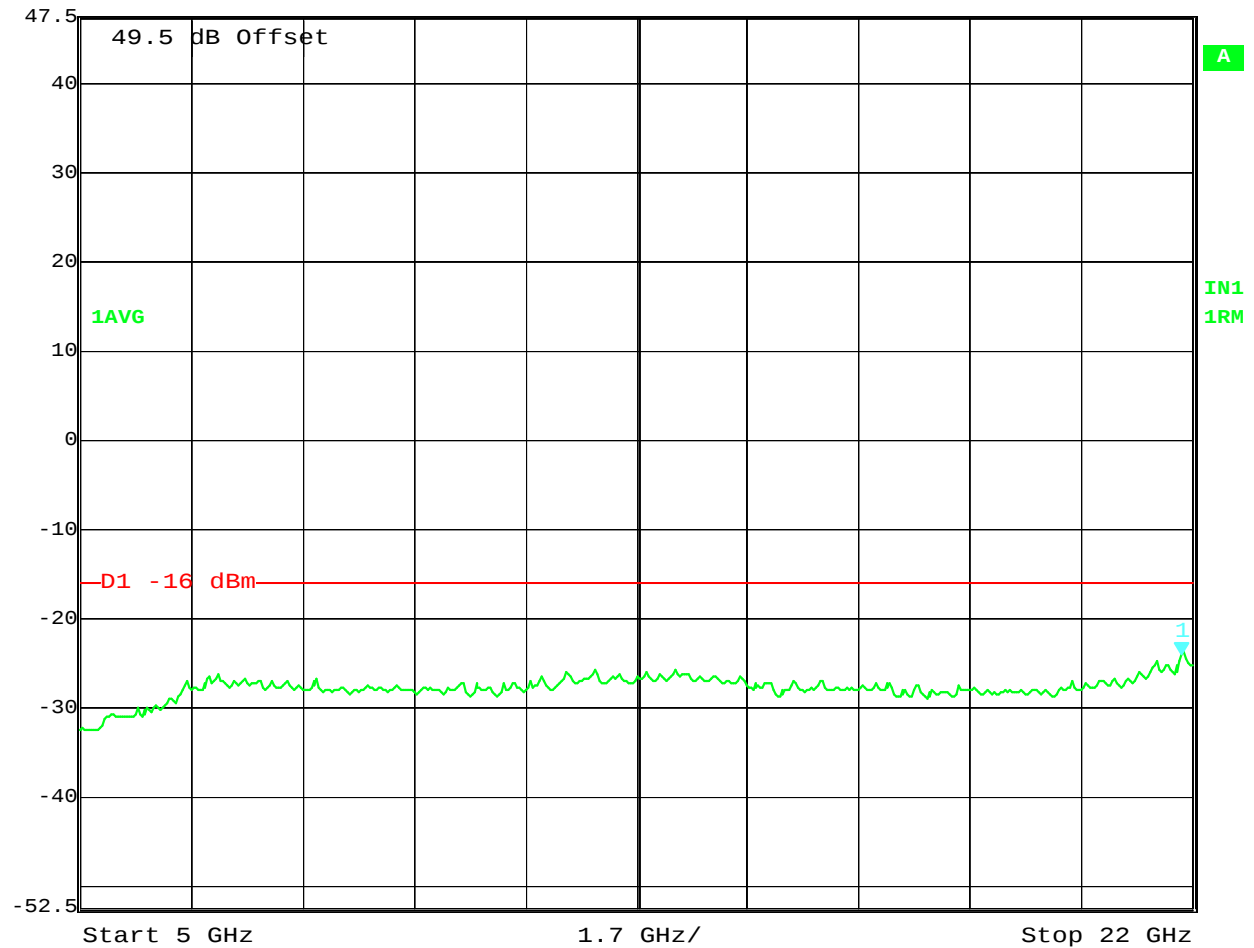
With HPF



Ref Lvl
47.5 dBm

Marker 1 [T1]
-24.07 dBm
21.82965932 GHz

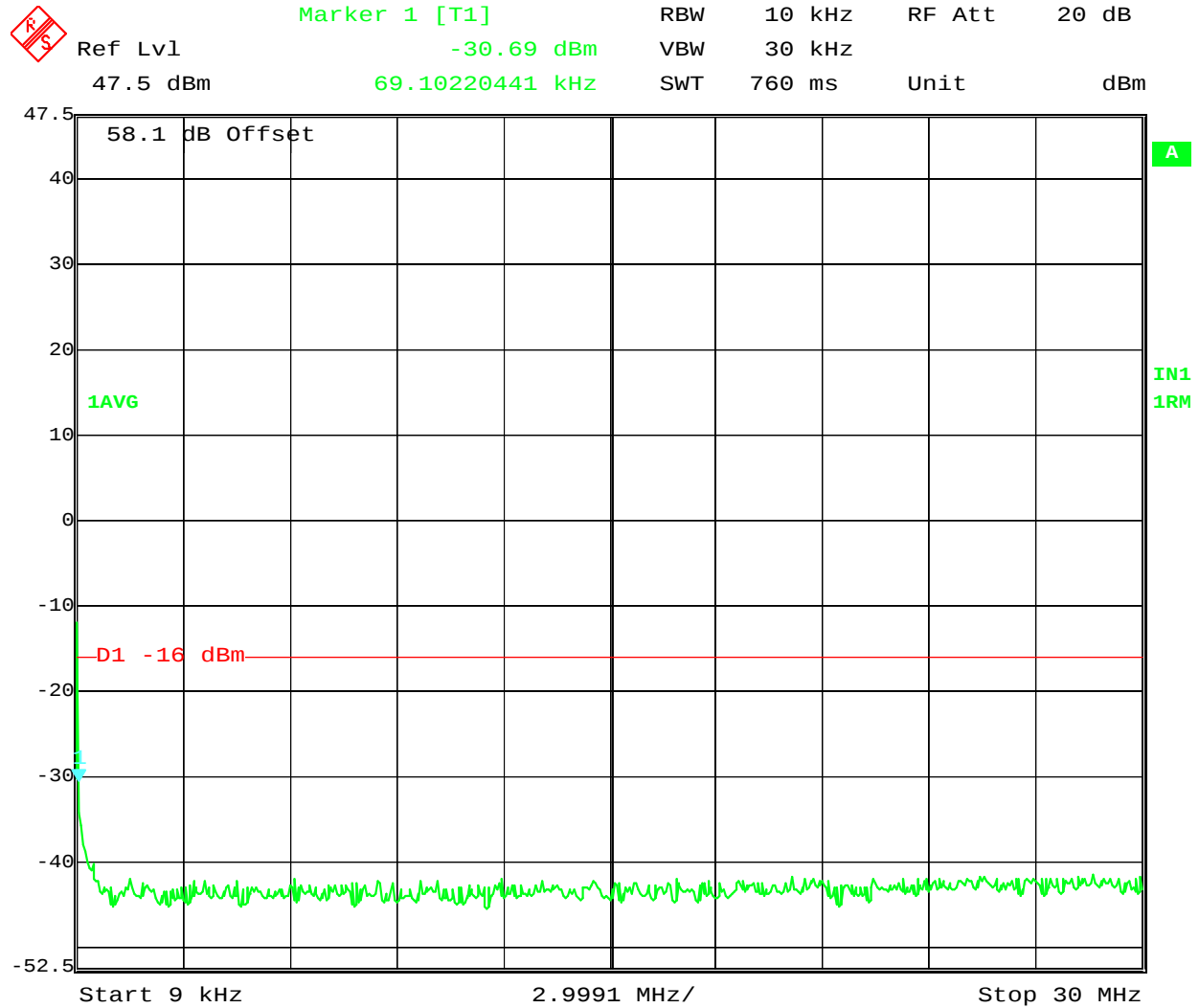
RBW 1 MHz RF Att 10 dB
VBW 3 MHz
SWT 170 ms Unit dBm



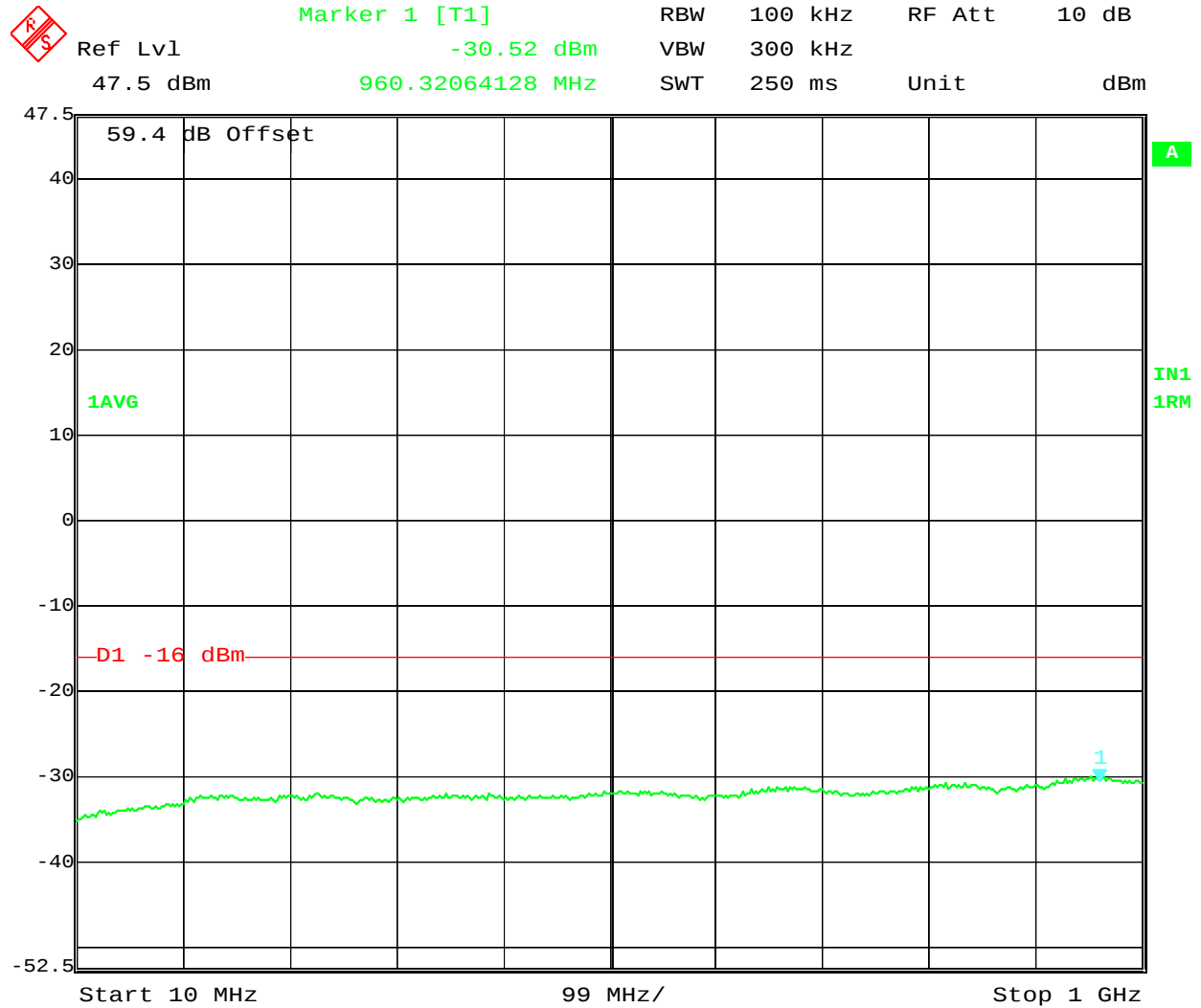
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; QPSK
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:44:29

**Transmit Port
Antenna Conducted Spurious Emissions**

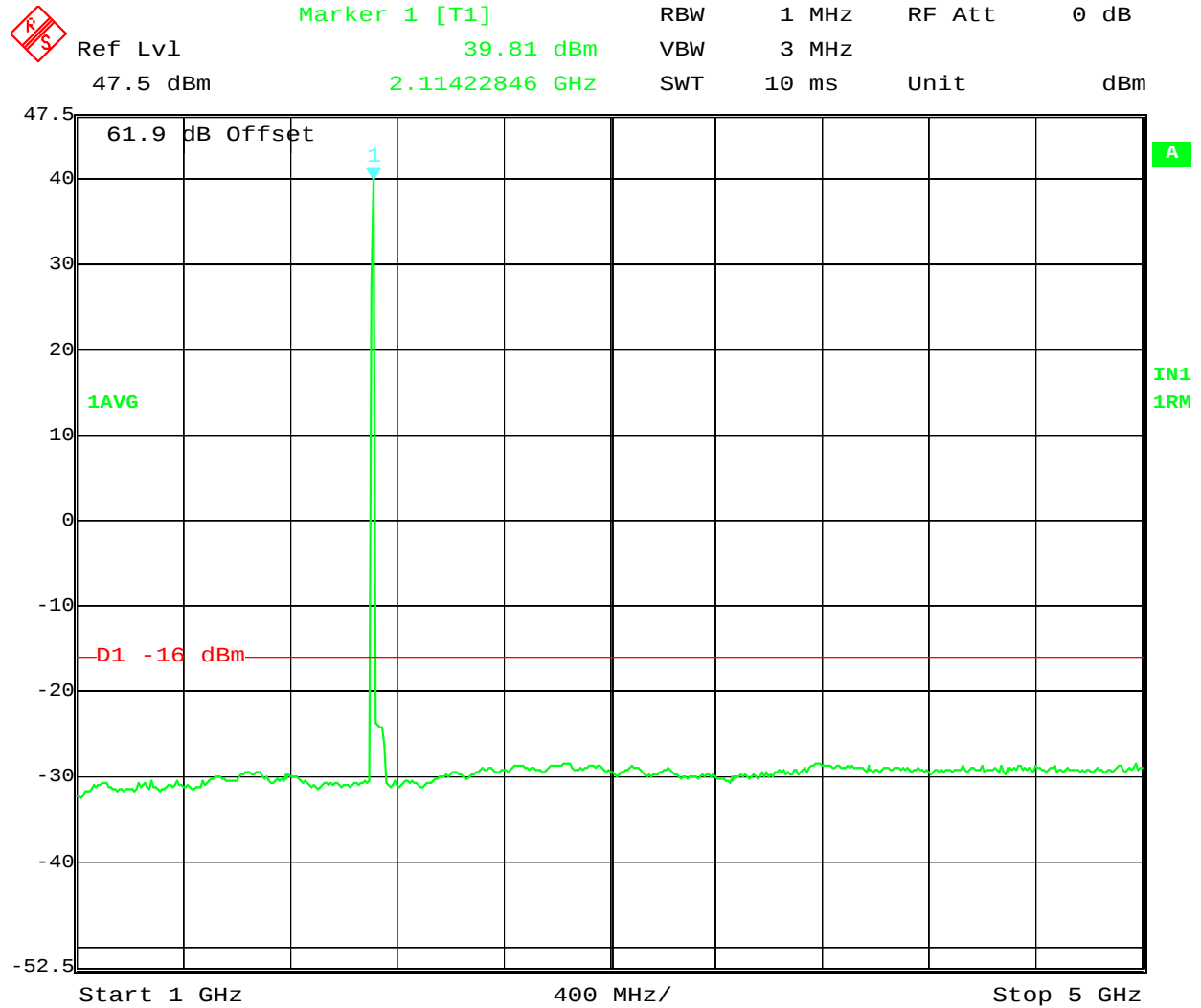
**Block: A
10 MHz Bandwidth (2110-2120 MHz)
2x60 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:49:42



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:49:06



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:48:18

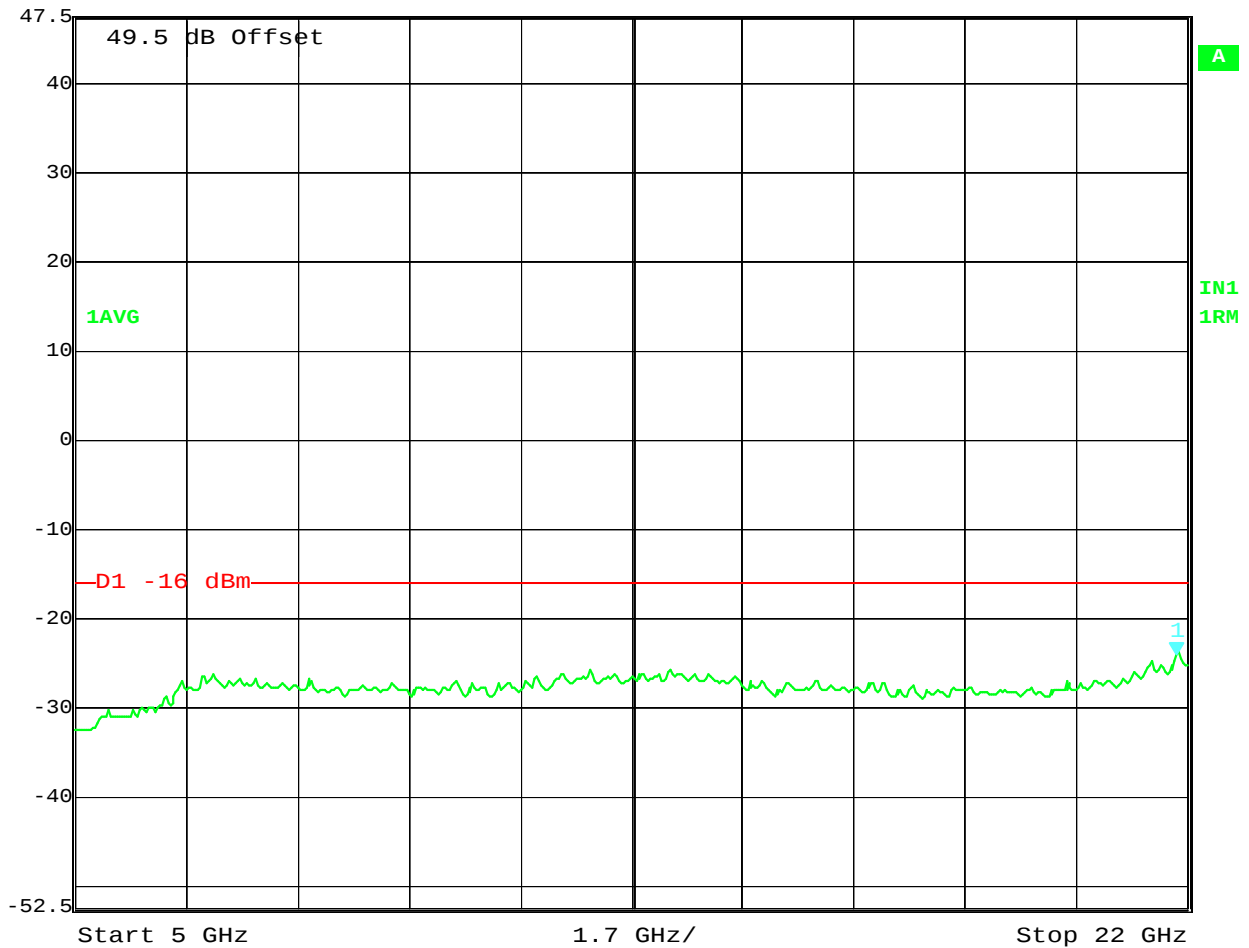
With HPF



Ref Lvl
47.5 dBm

Marker 1 [T1]
-24.08 dBm
21.82965932 GHz

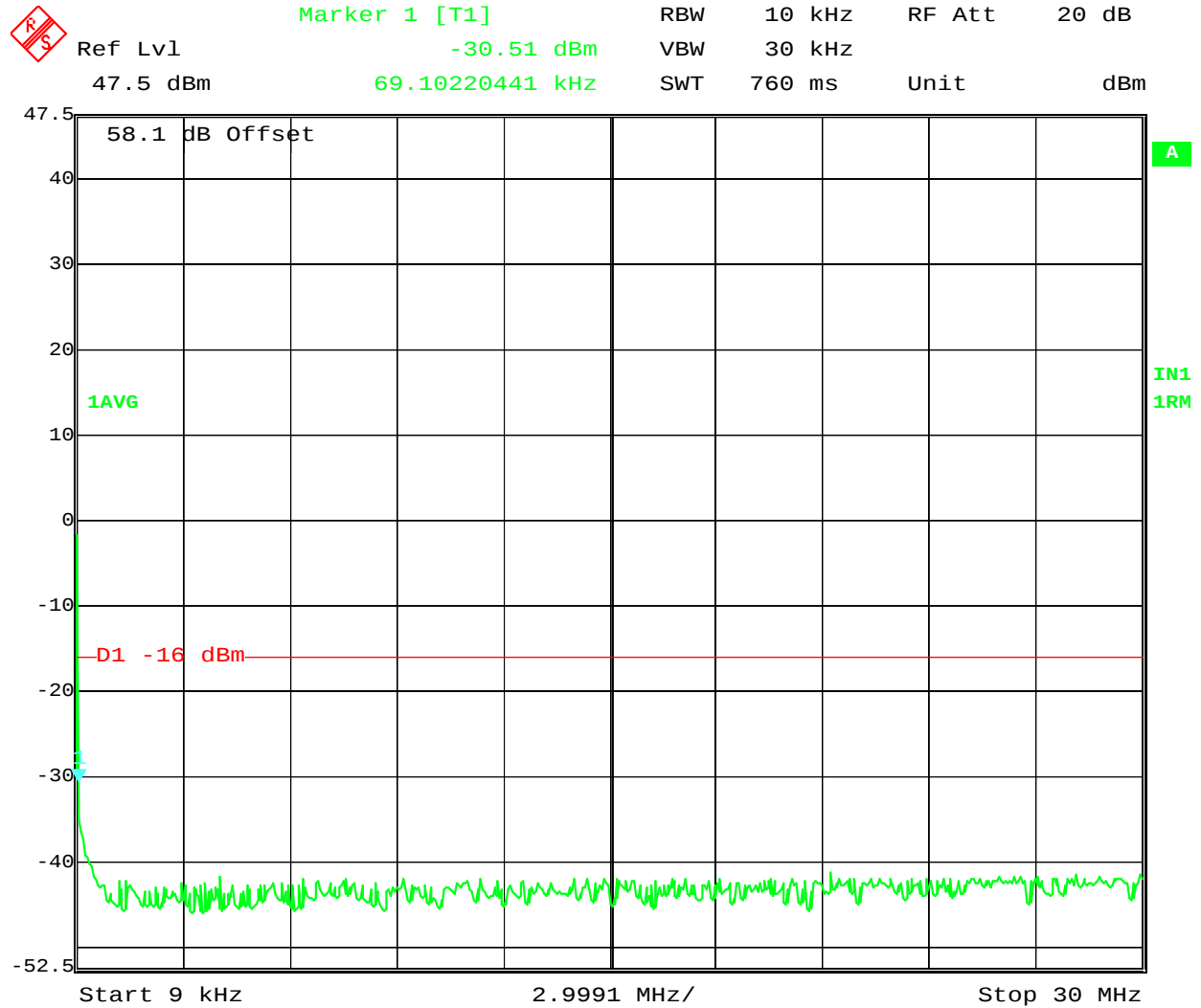
RBW 1 MHz RF Att 10 dB
VBW 3 MHz
SWT 170 ms Unit dBm



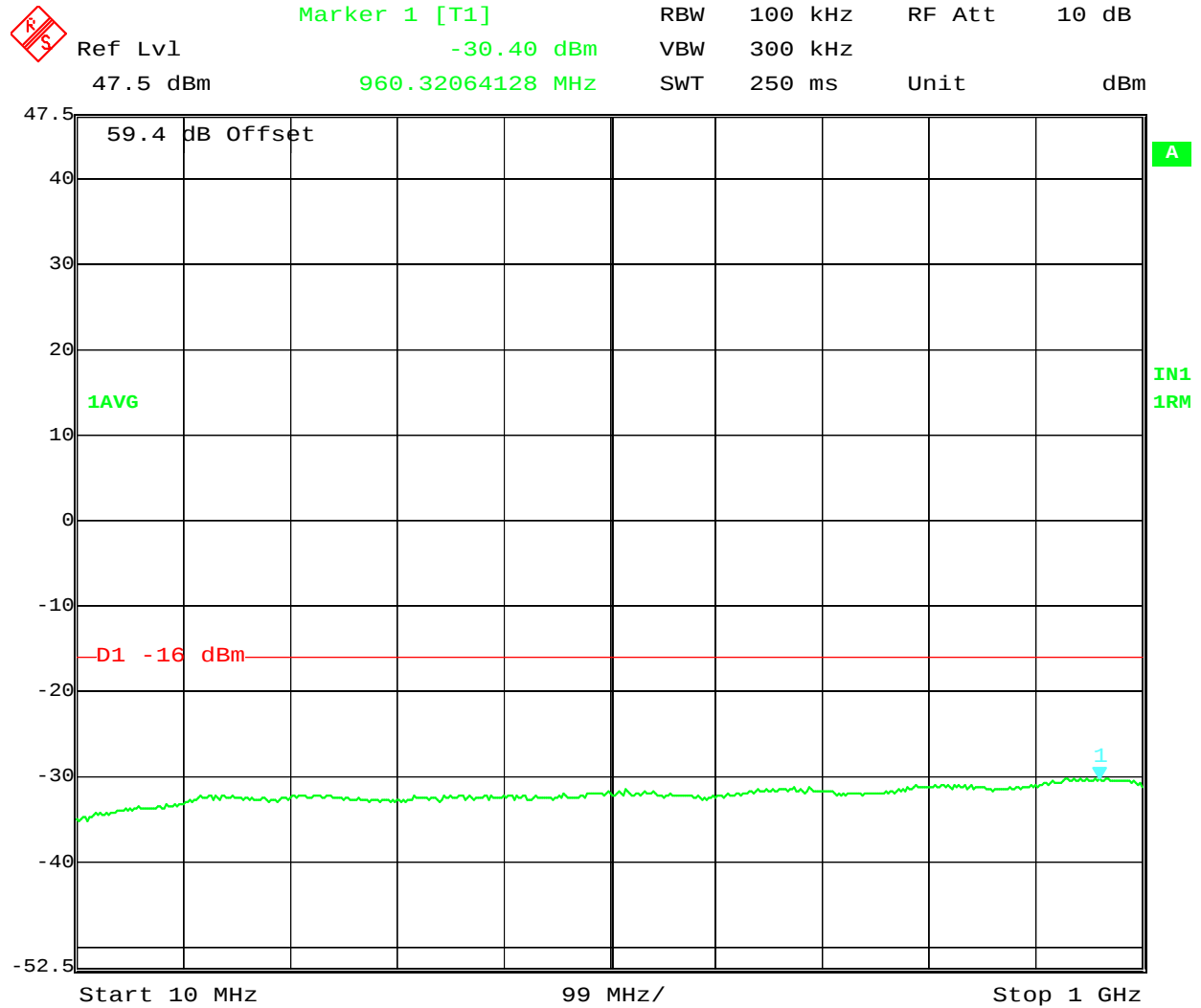
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 16QAM
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 08:47:13

**Transmit Port
Antenna Conducted Spurious Emissions**

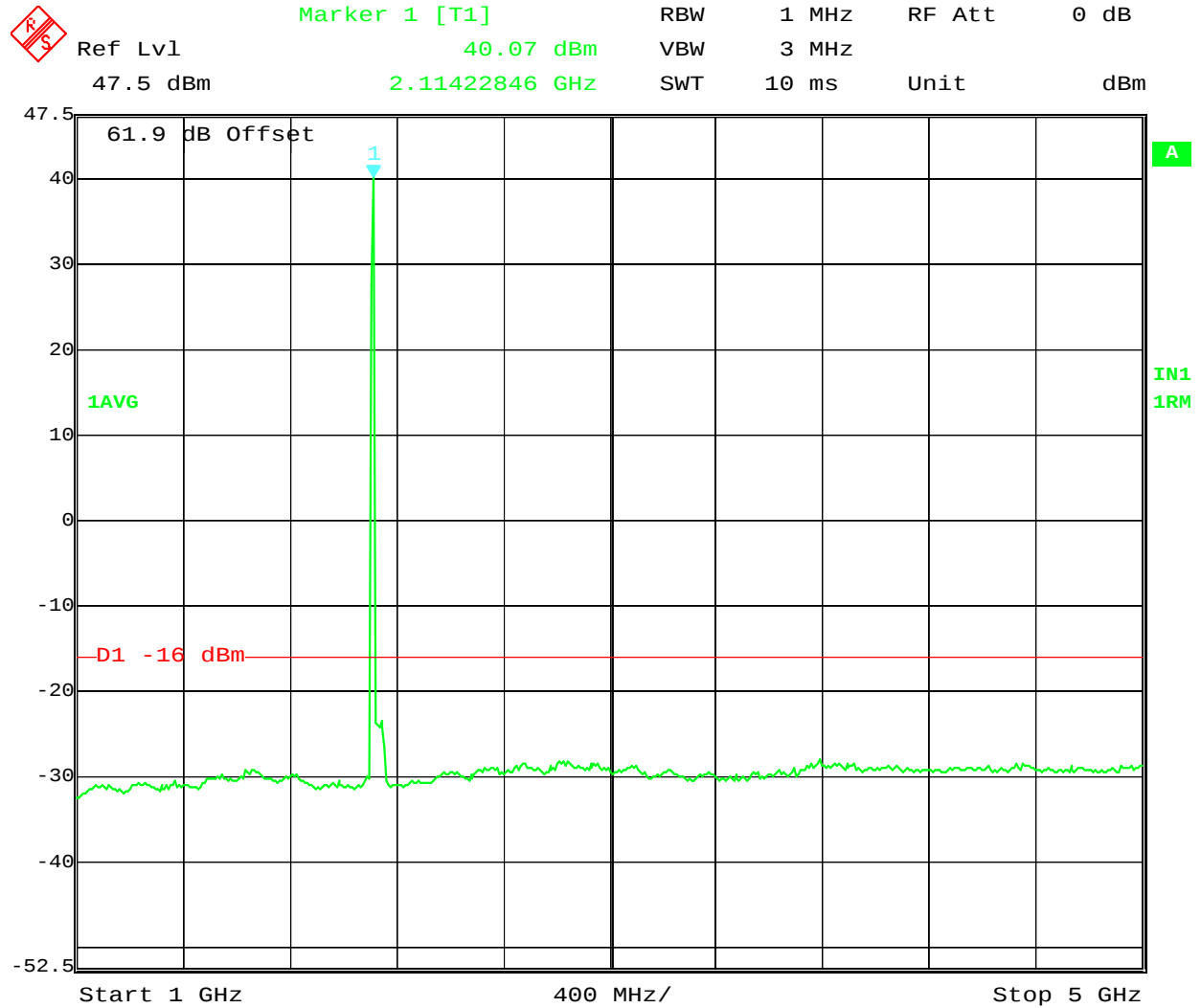
**Block: A
10 MHz Bandwidth (2110-2120 MHz)
2x60 watts (MIMO)
64QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 64QAM
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 22.AUG.2013 10:04:39



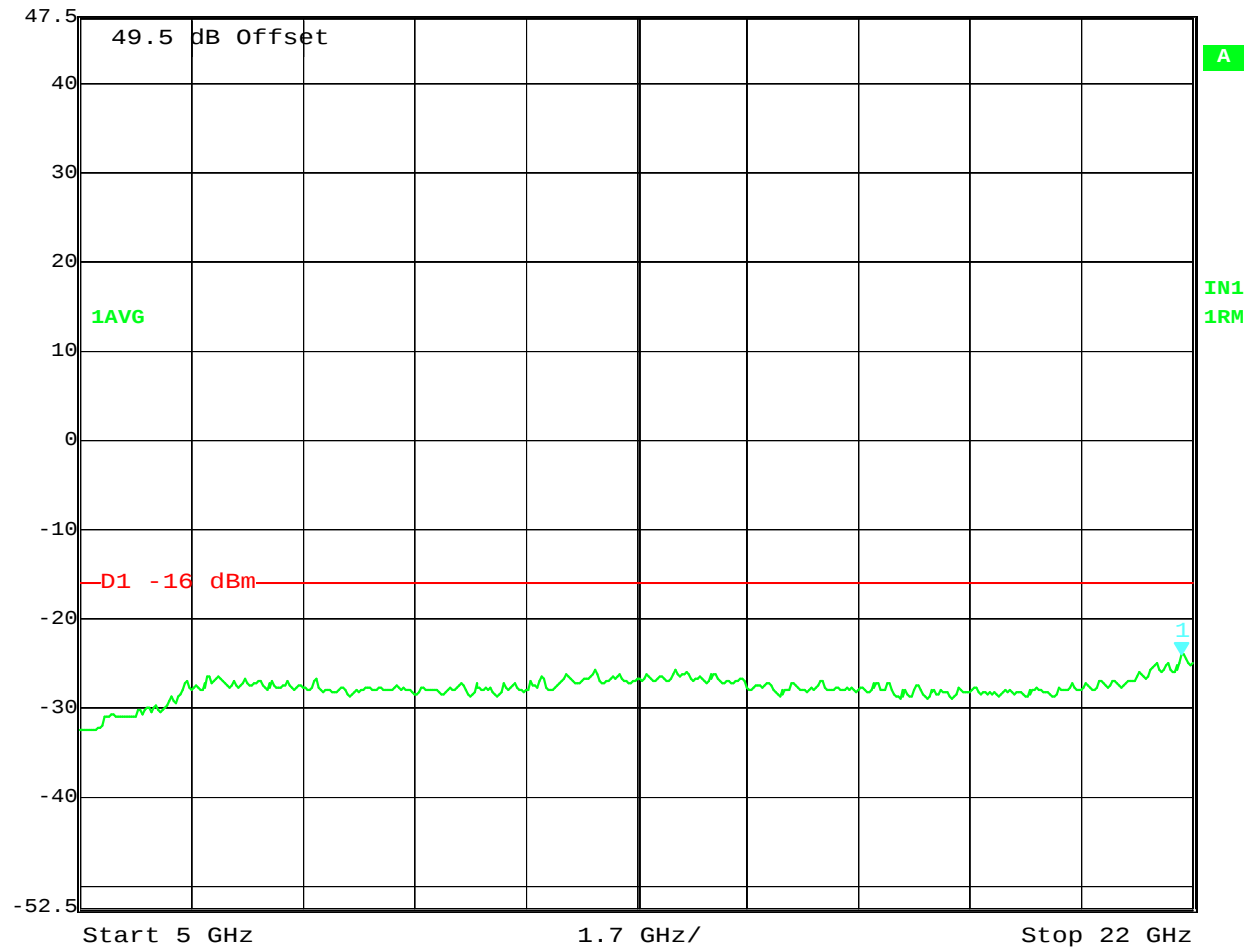
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 10:05:15



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 10:05:50

With HPF

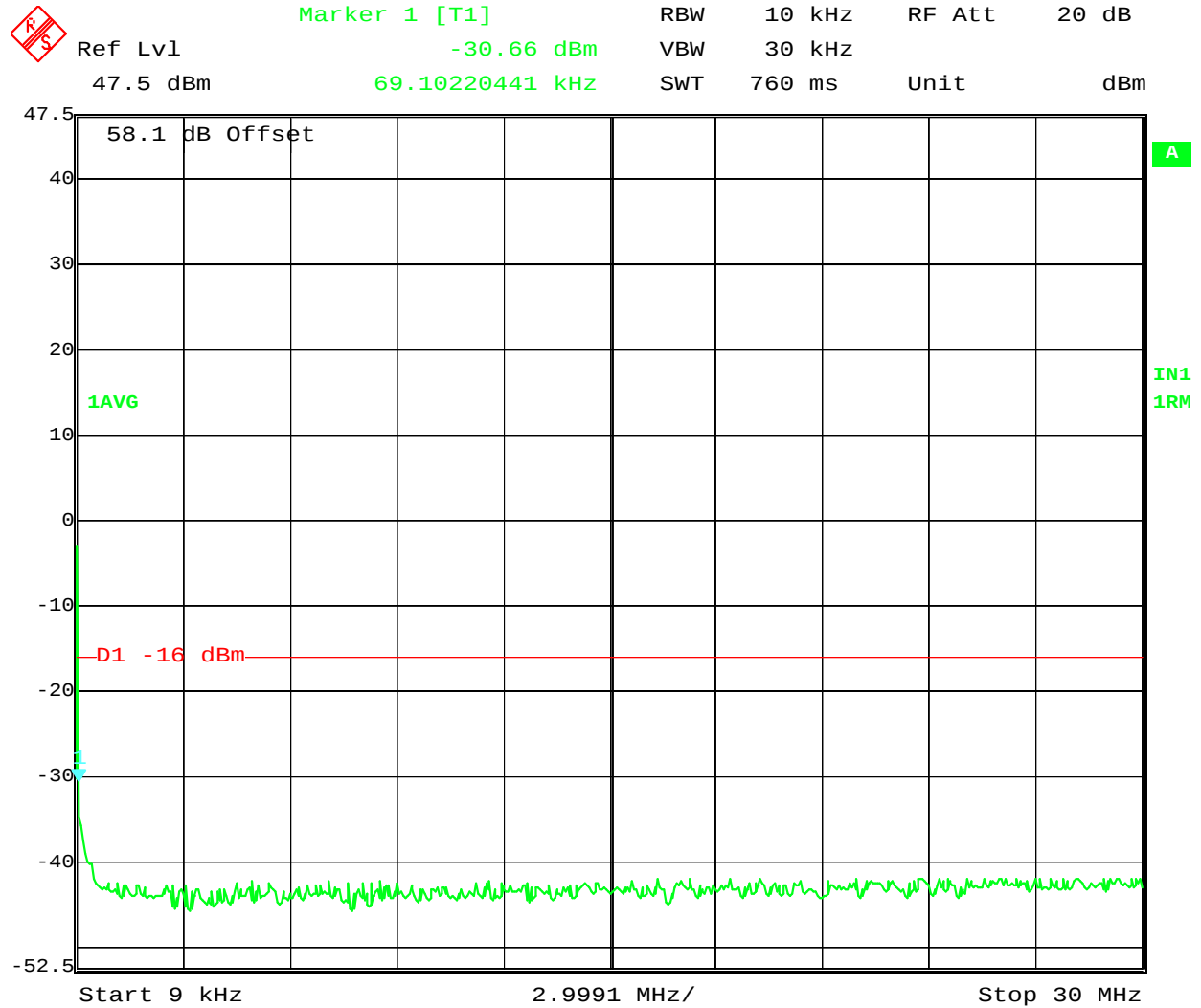

 Ref Lvl 47.5 dBm
 Marker 1 [T1] -24.07 dBm
 21.82965932 GHz
 RBW 1 MHz RF Att 10 dB
 VBW 3 MHz
 SWT 170 ms Unit dBm



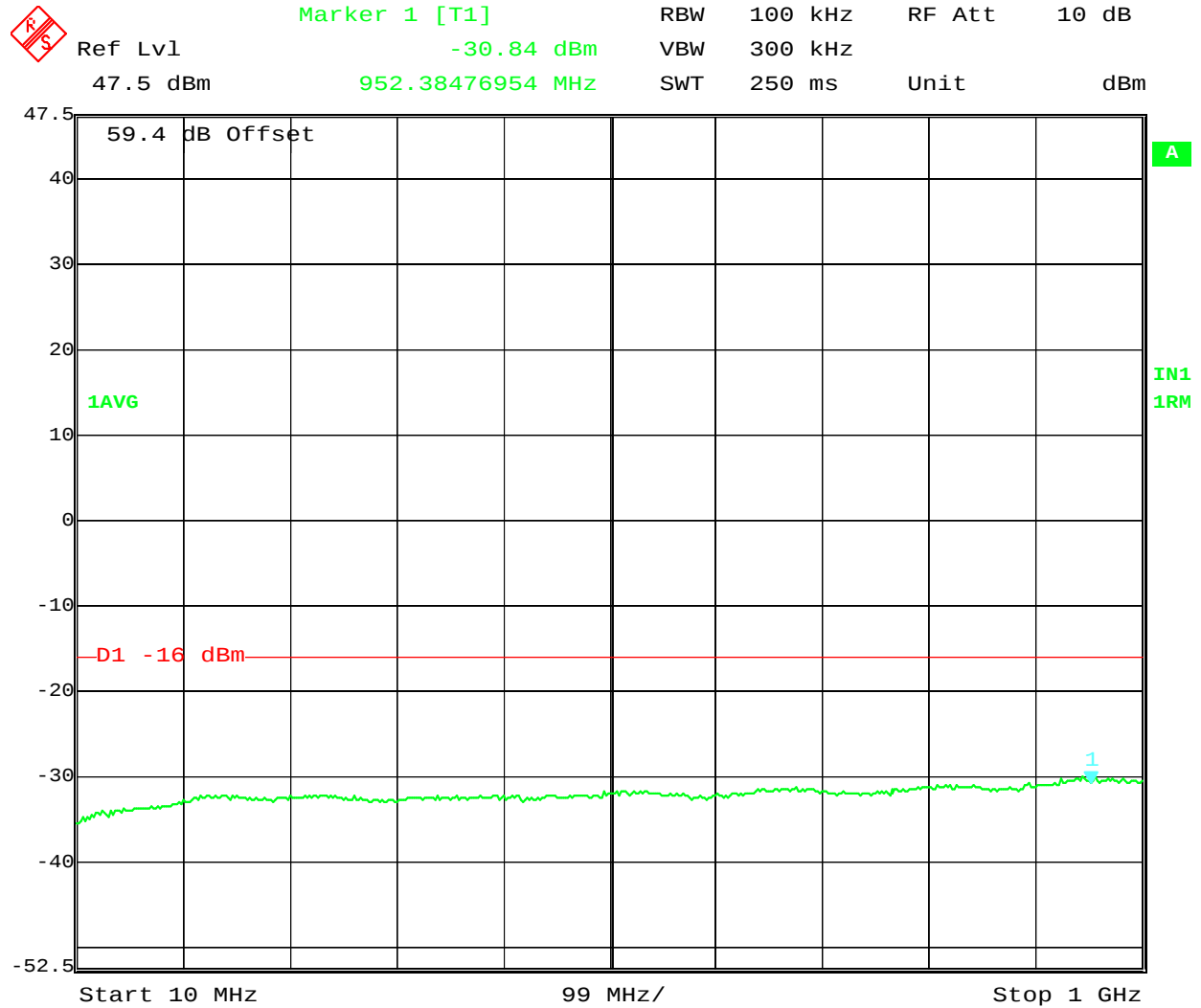
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK A; 2115MHz; 10MHz BW; PWR:60W; 64QAM
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 10:06:22

**Transmit Port
Antenna Conducted Spurious Emissions**

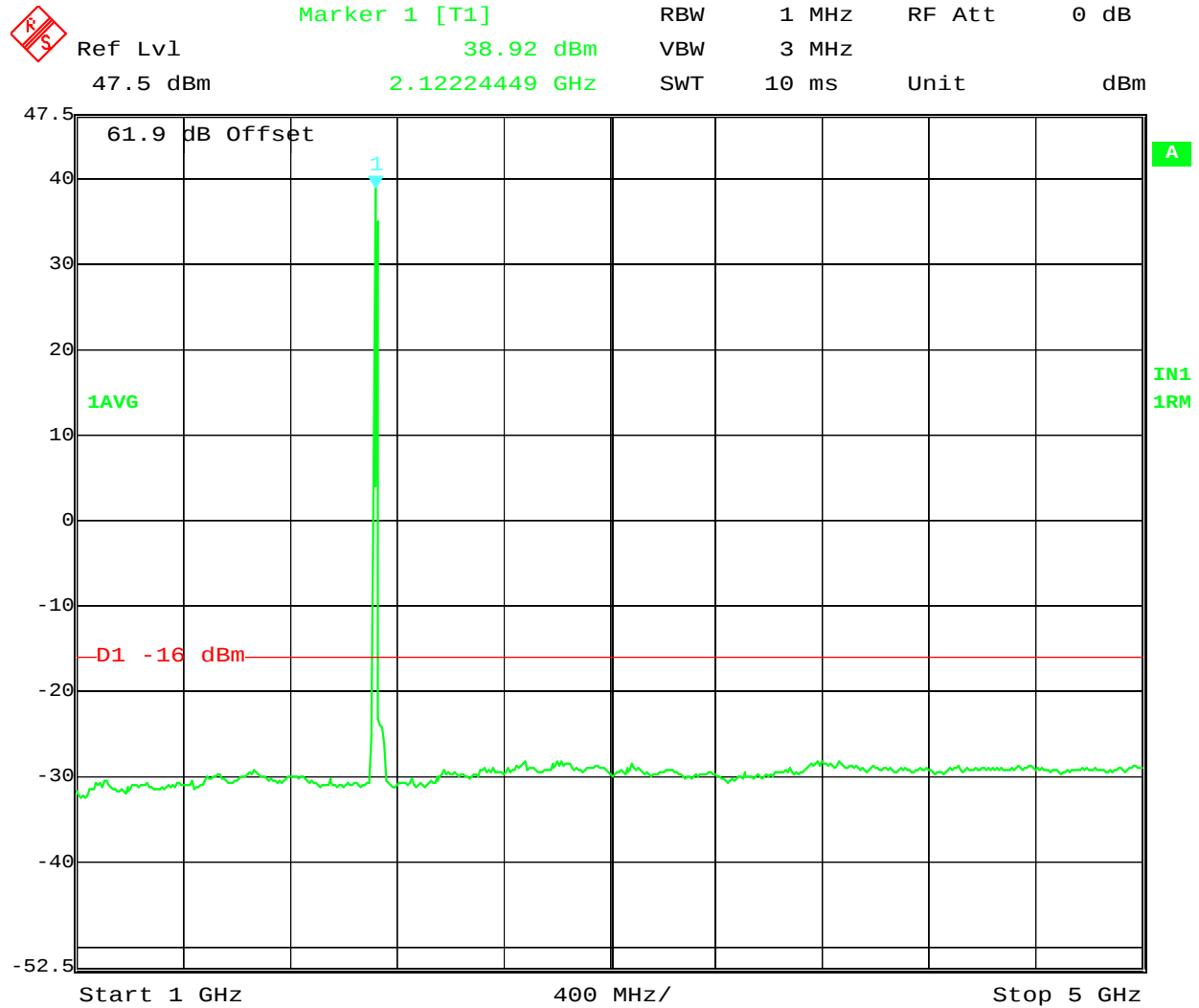
**Block: B
10 MHz Bandwidth (2120-2130 MHz)
2x60 watts (MIMO)
QPSK Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; QPSK
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 22.AUG.2013 07:53:30



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:55:09



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:55:50

With HPF



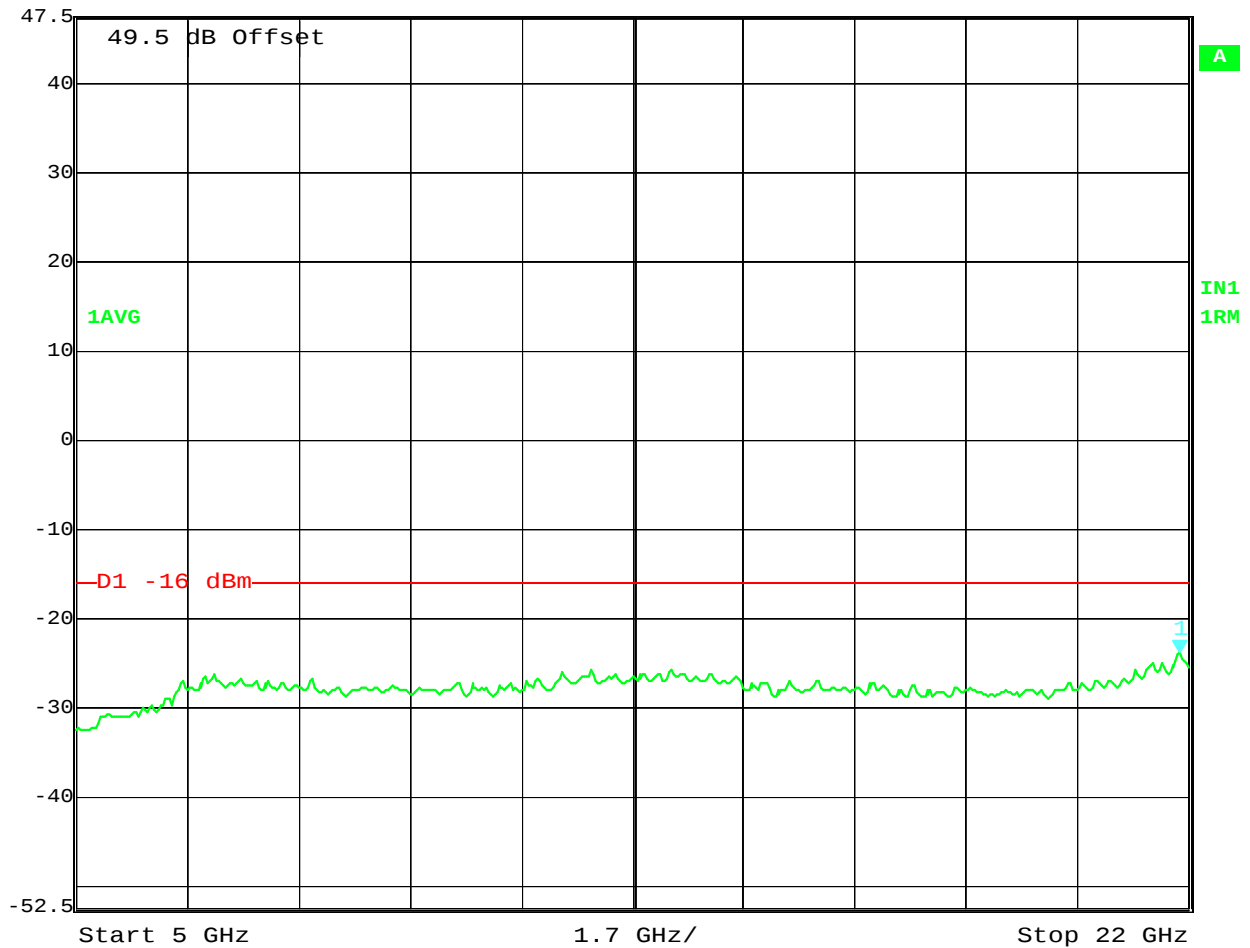
Ref Lvl
47.5 dBm

Marker 1 [T1]

-23.98 dBm

21.86372745 GHz

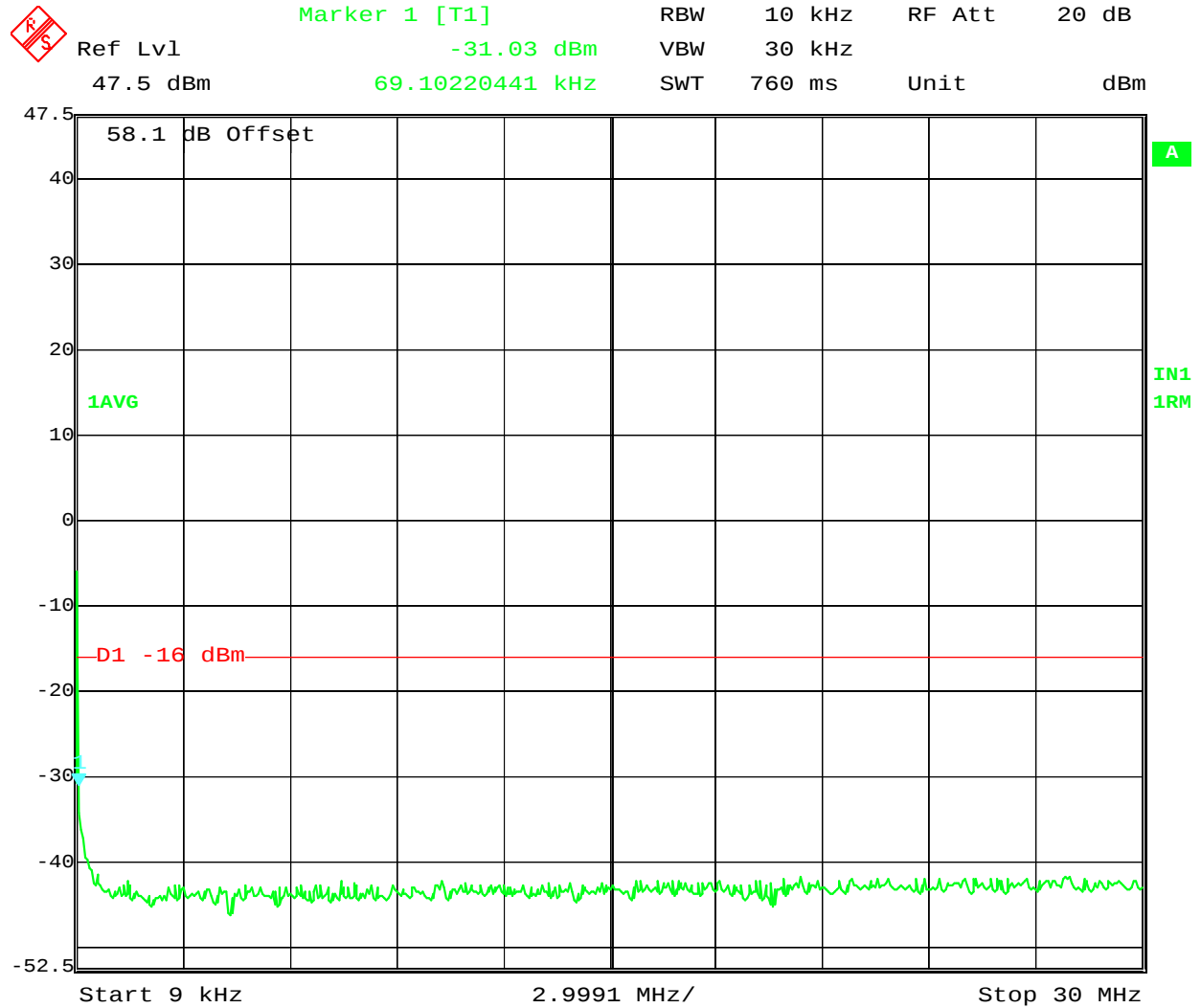
RBW 1 MHz RF Att 10 dB
VBW 3 MHz
SWT 170 ms Unit dBm



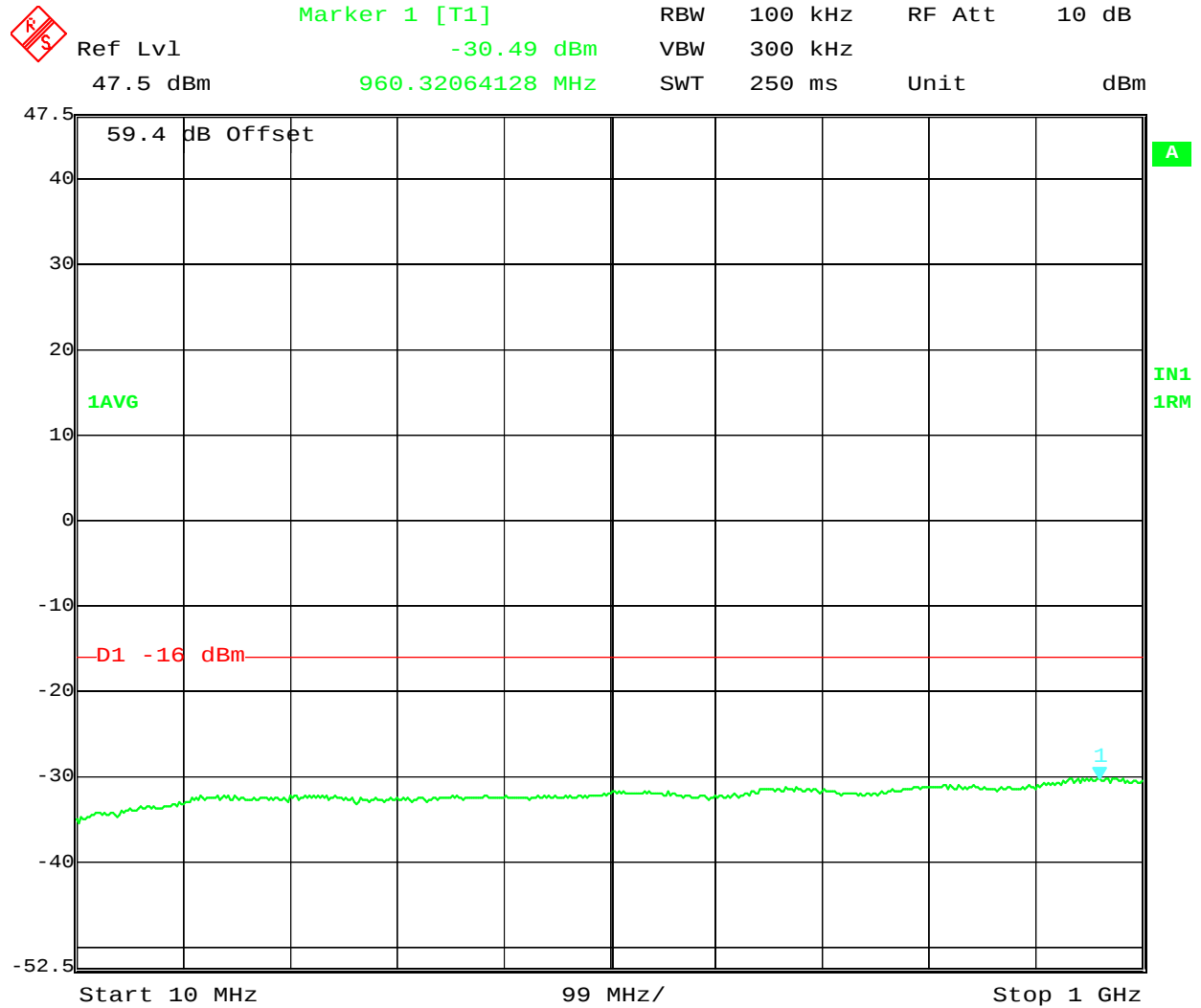
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:56:32

**Transmit Port
Antenna Conducted Spurious Emissions**

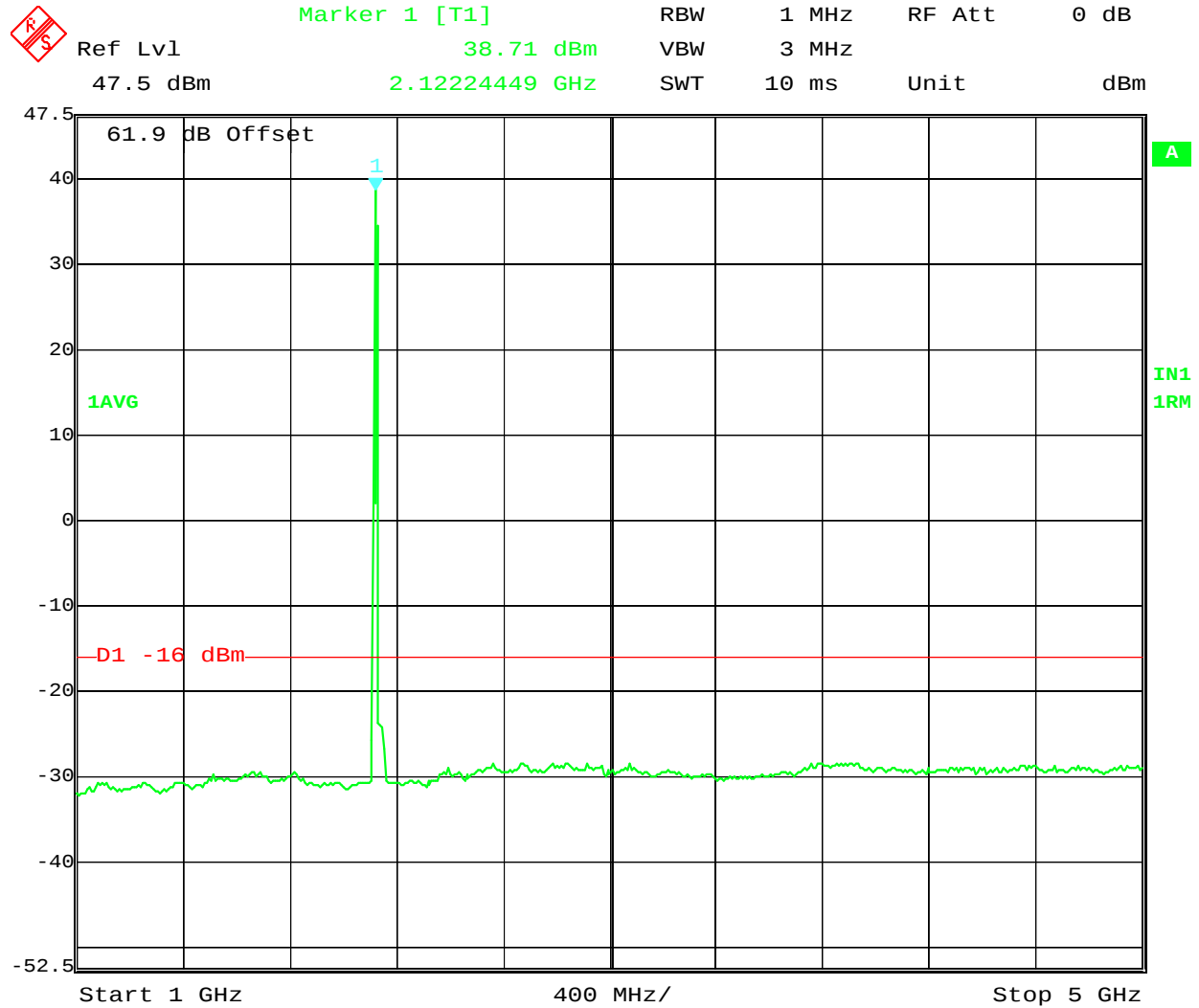
**Block: B
10 MHz Bandwidth (2120-2130 MHz)
2x60 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:13:04



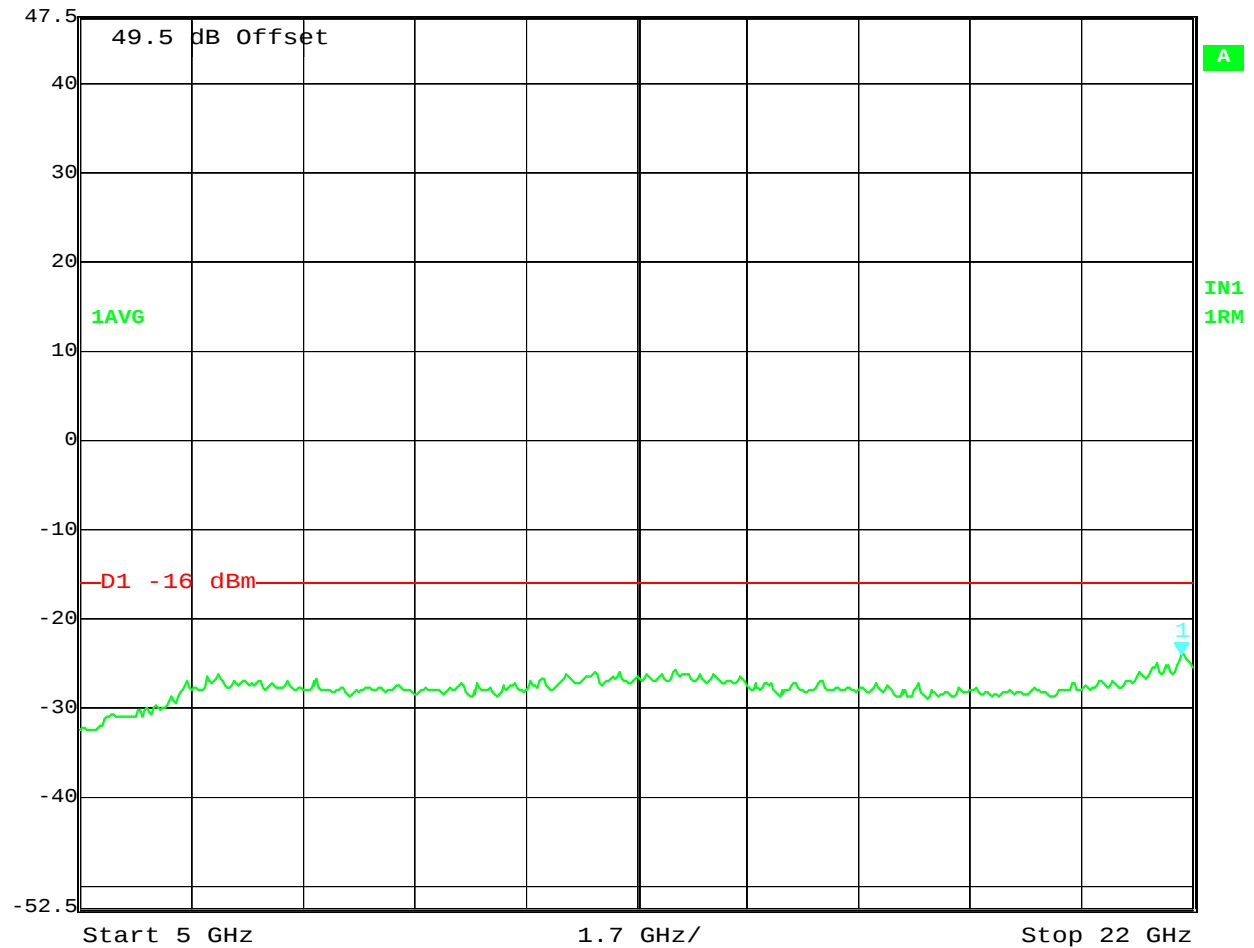
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:14:00



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:14:47

With HPF

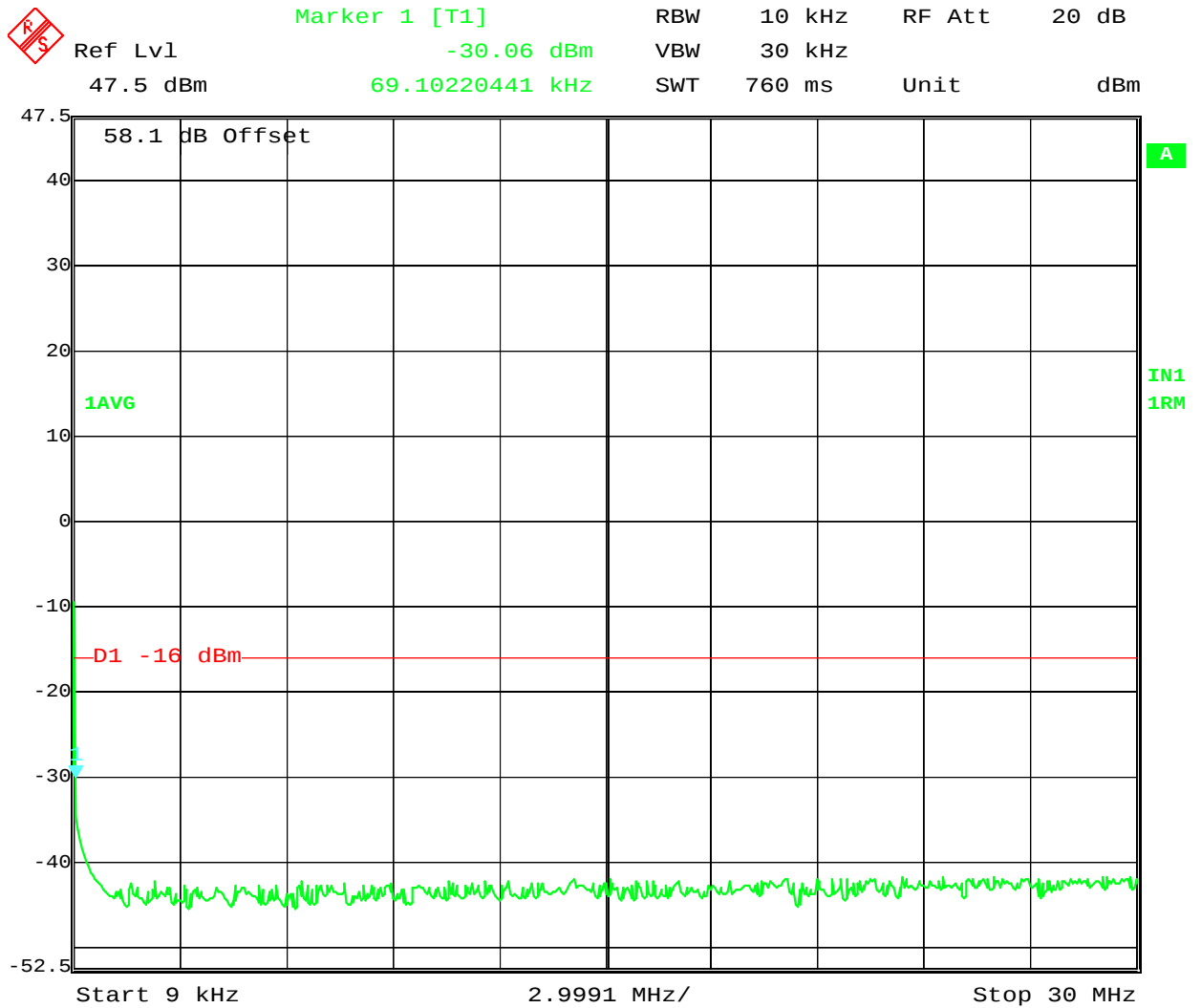

 Marker 1 [T1] RBW 1 MHz RF Att 10 dB
 Ref Lvl -24.06 dBm VBW 3 MHz
 47.5 dBm 21.82965932 GHz SWT 170 ms Unit dBm



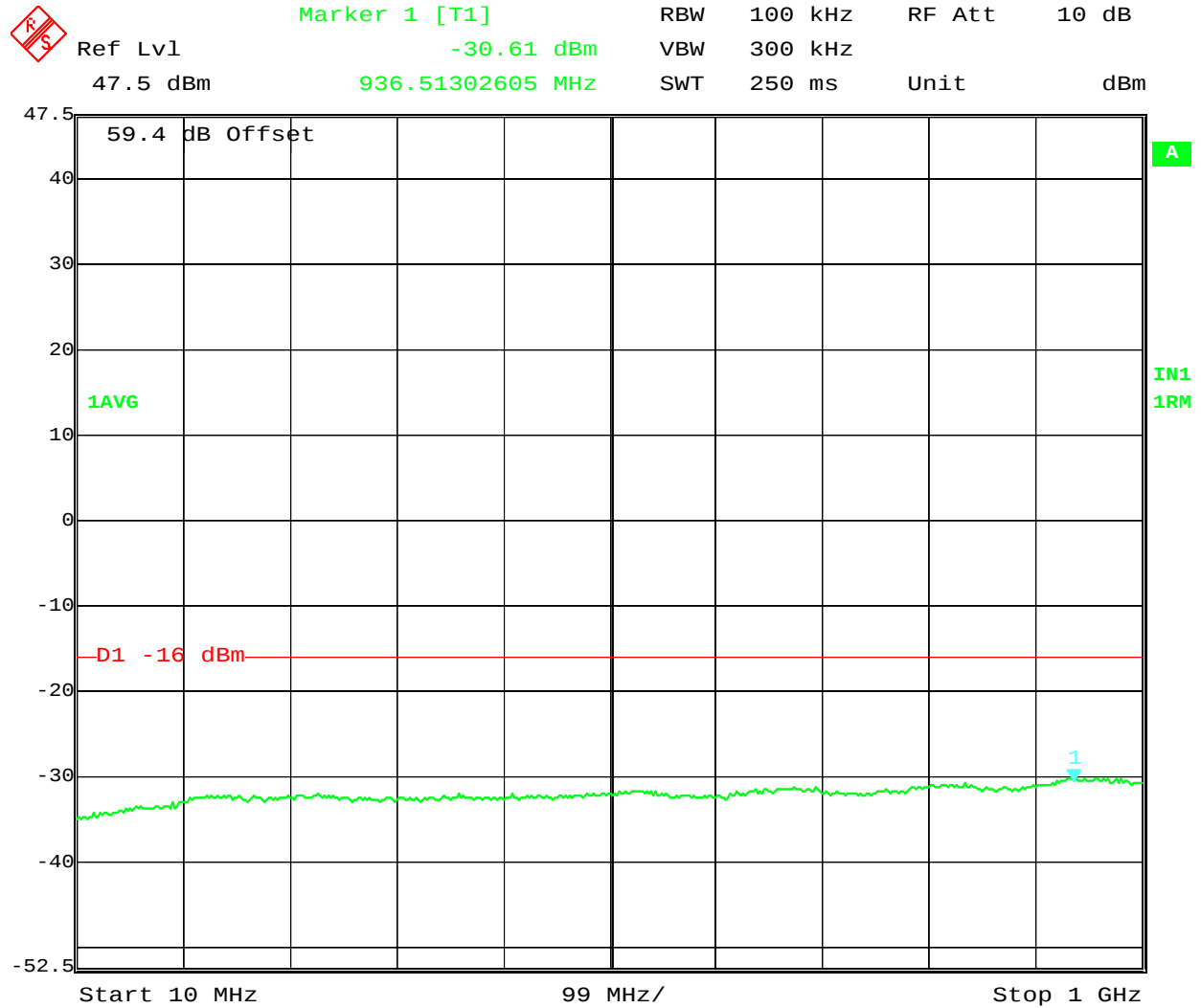
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:15:41

**Transmit Port
Antenna Conducted Spurious Emissions**

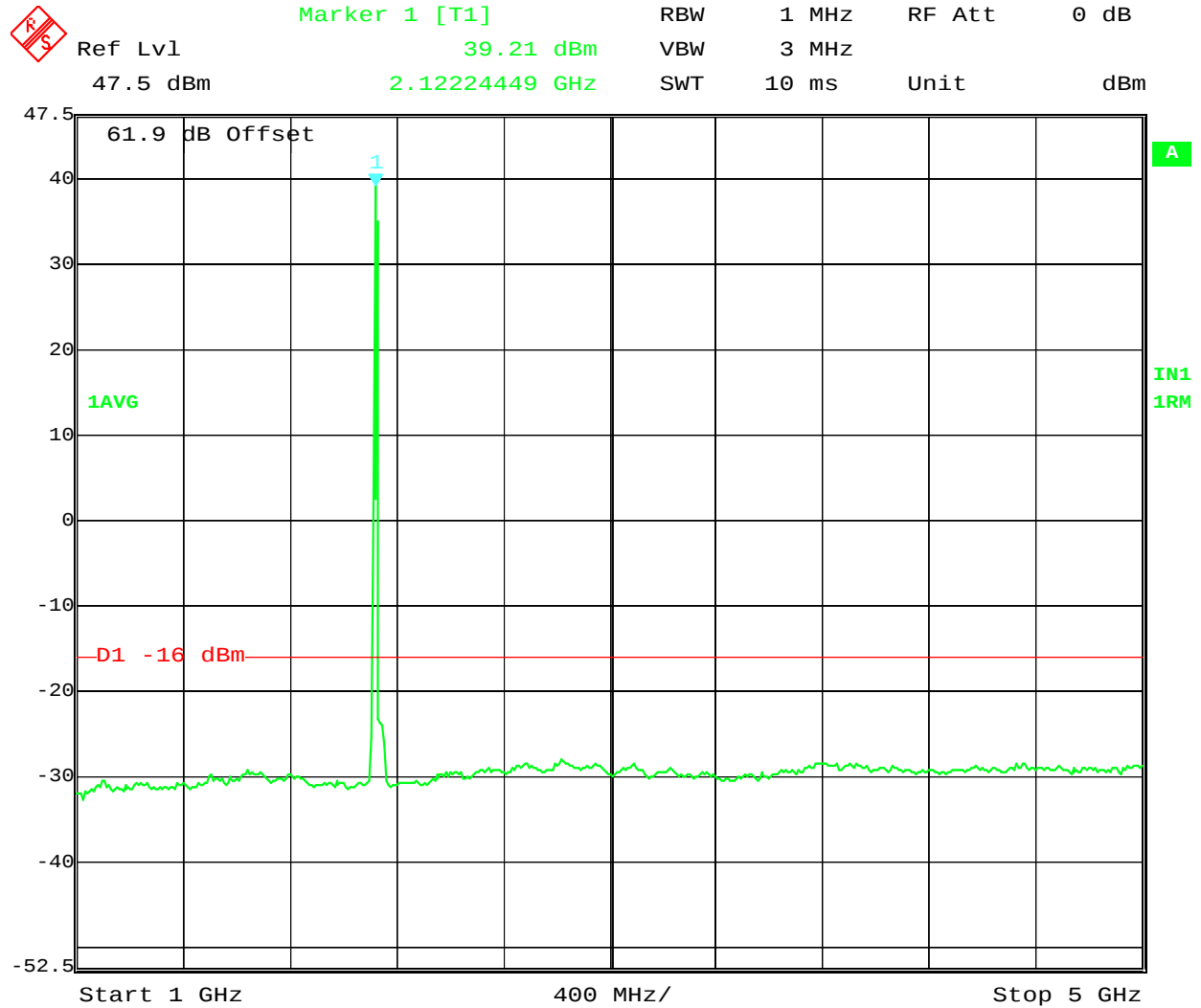
**Block: B
10 MHz Bandwidth (2120-2130 MHz)
2x60 watts (MIMO)
64QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 64QAM
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 22.AUG.2013 07:29:37



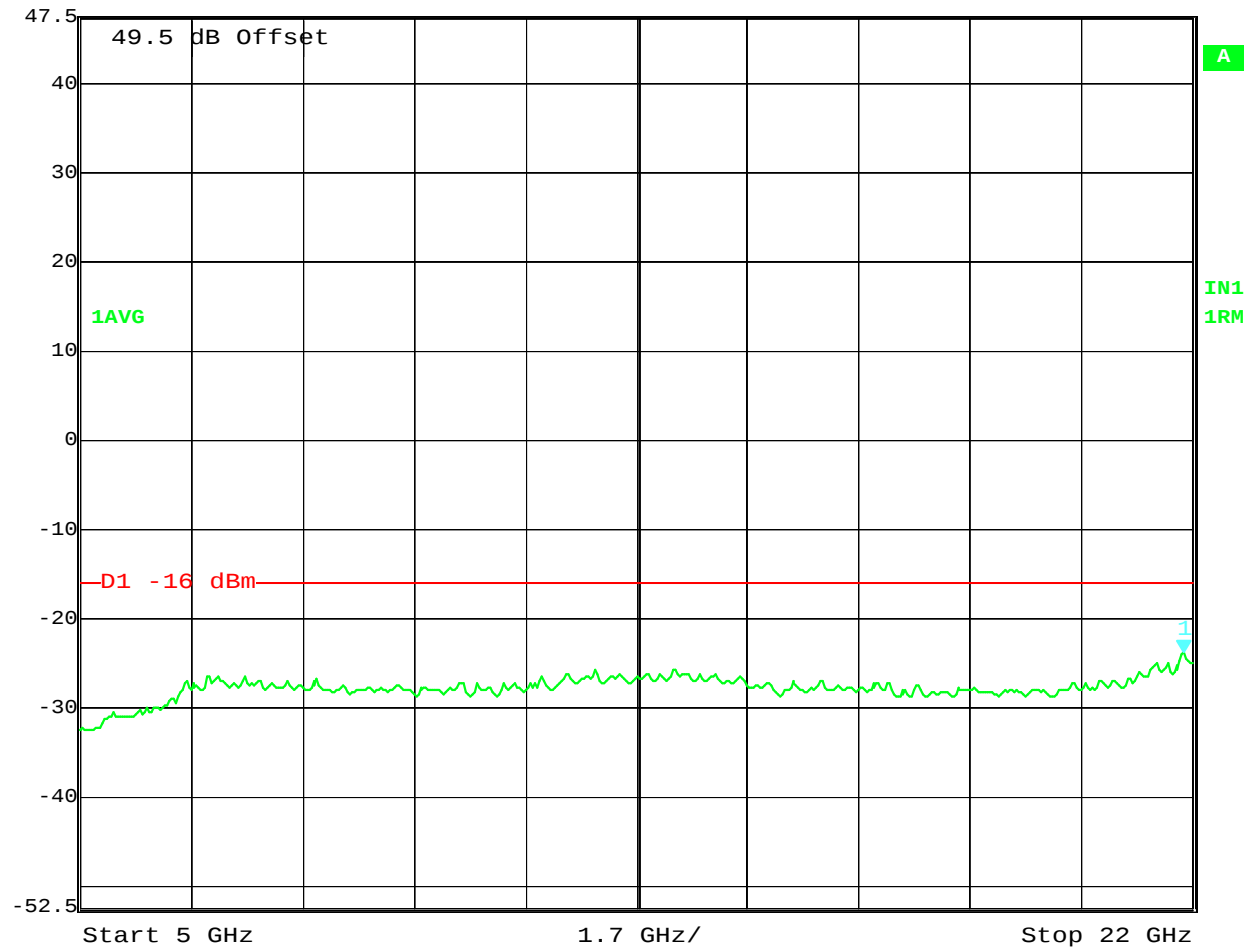
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:28:58



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:28:20

With HPF

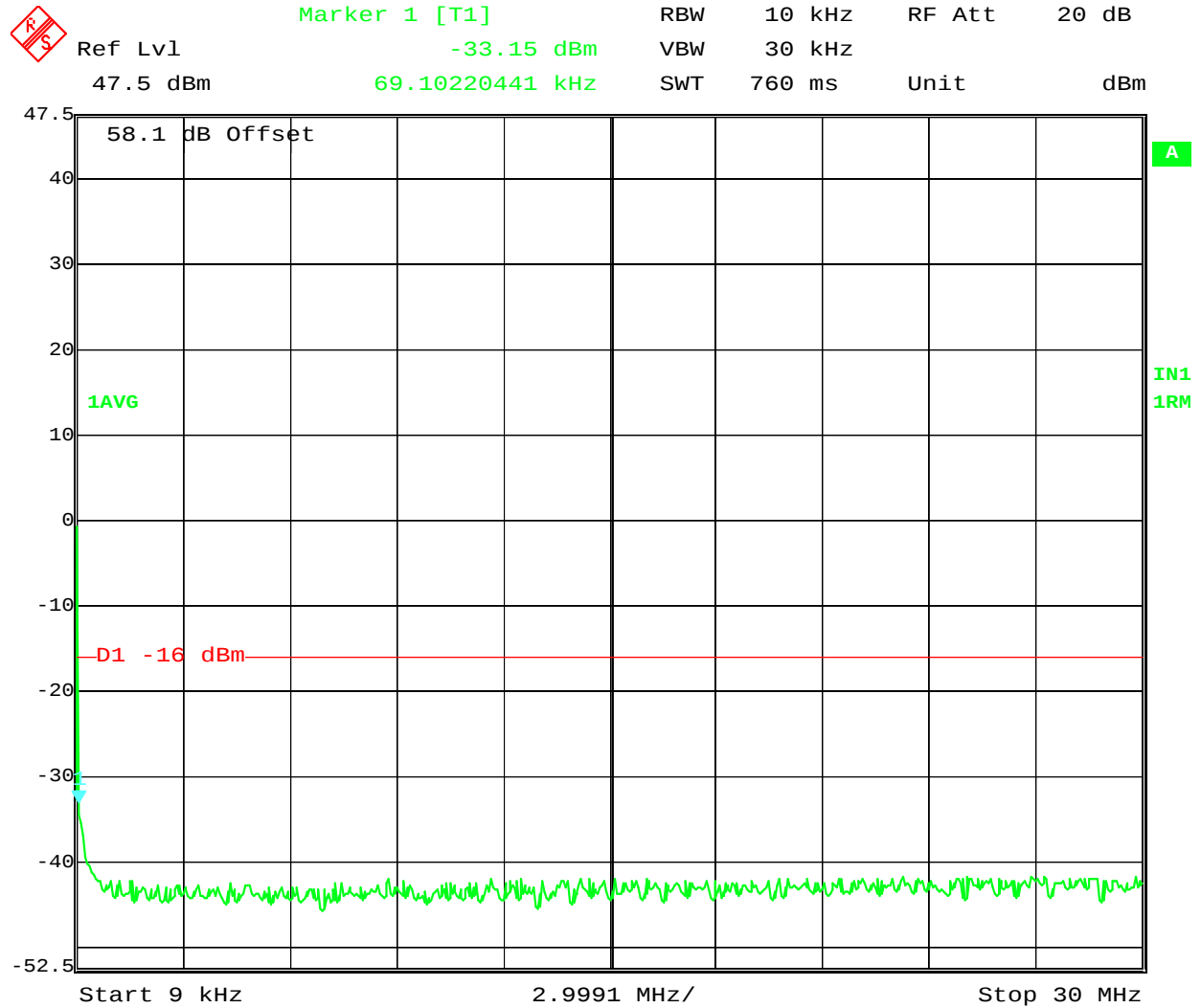

 Ref Lvl 47.5 dBm
 Marker 1 [T1] -23.93 dBm
 21.86372745 GHz
 RBW 1 MHz
 VBW 3 MHz
 SWT 170 ms
 RF Att 10 dB
 Unit dBm



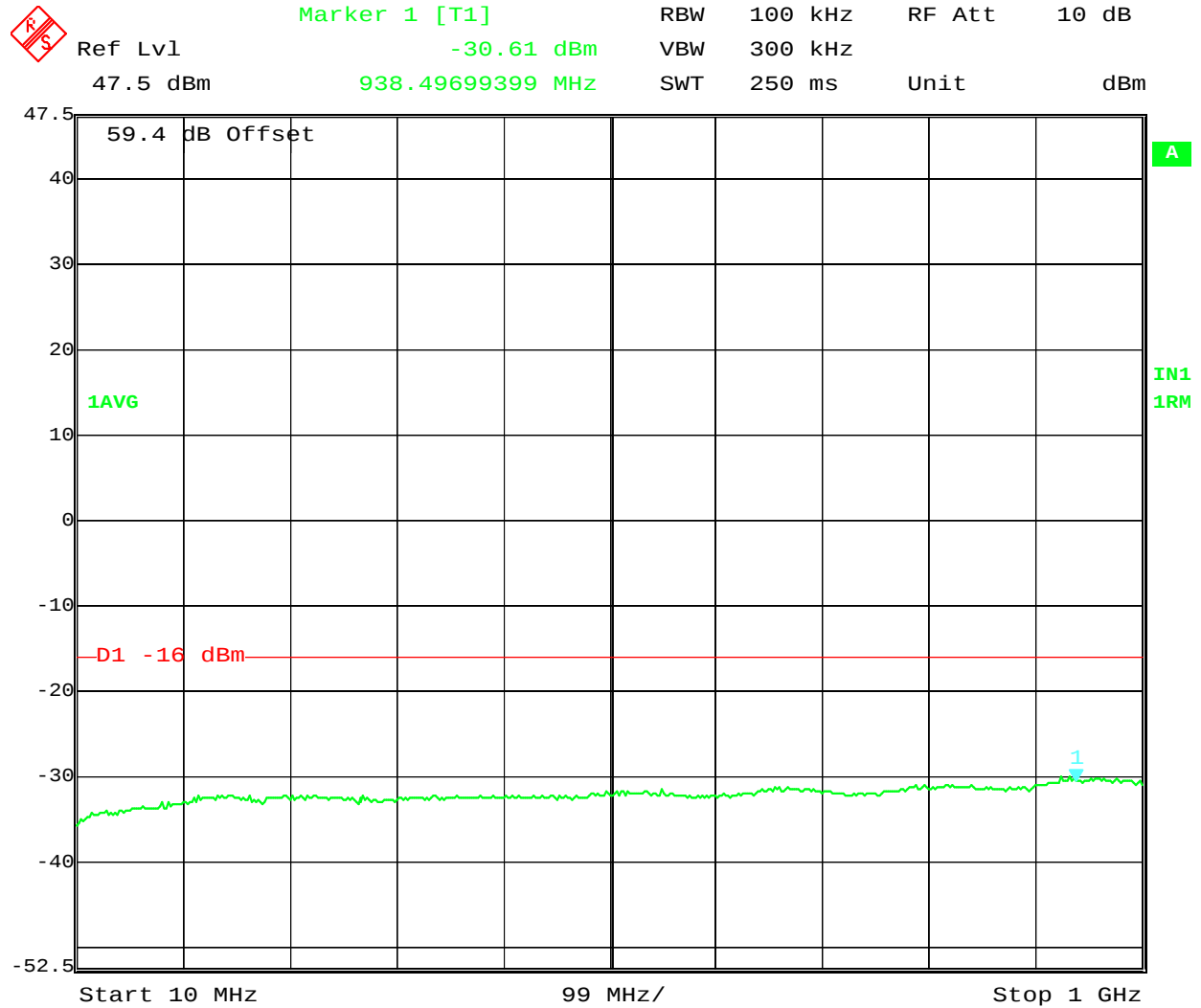
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK B; 2125MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 07:27:40

**Transmit Port
Antenna Conducted Spurious Emissions**

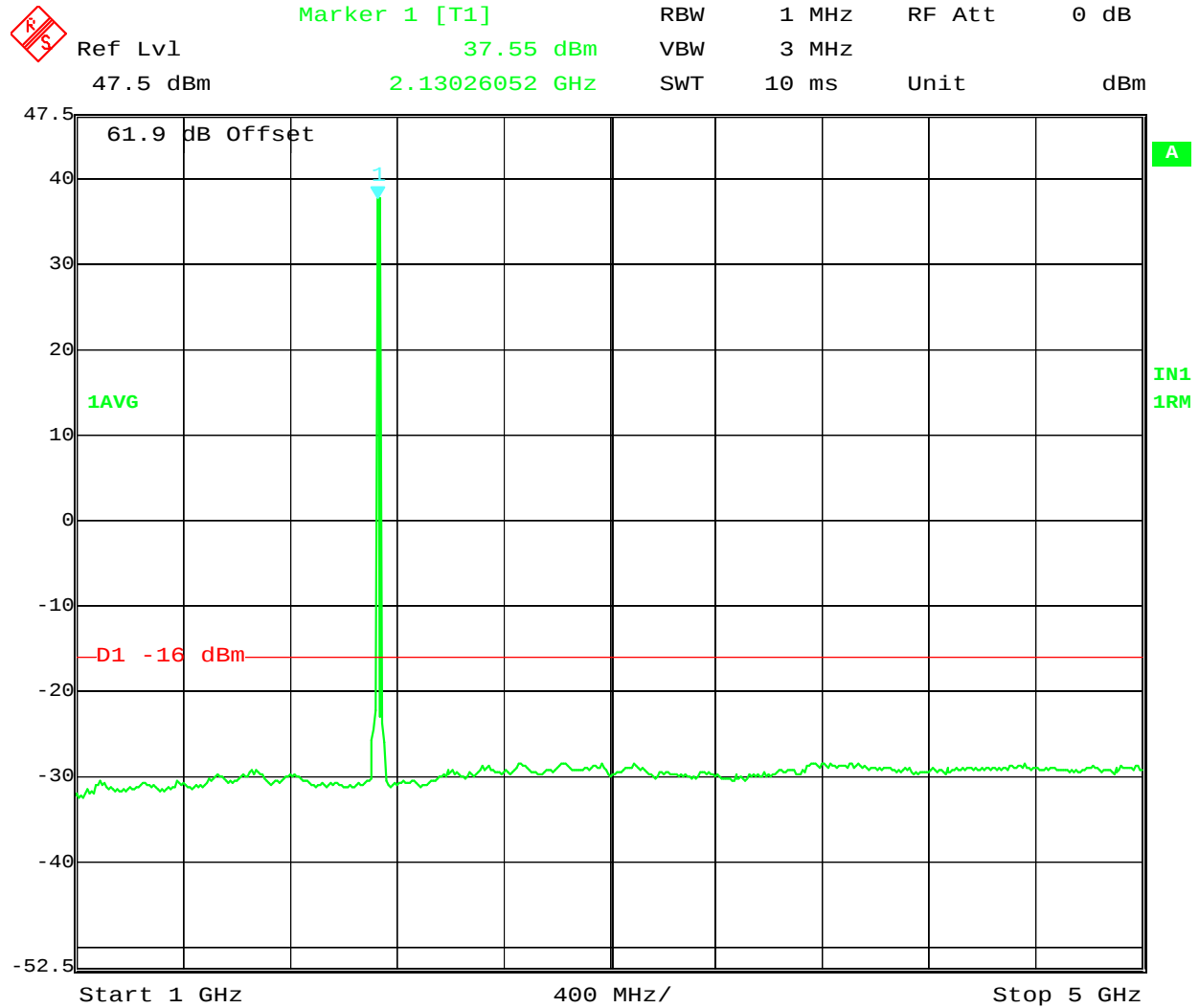
**Block: C+D
10 MHz Bandwidth (2130-2135+2135-2140 MHz)
2x60 watts (MIMO)
QPSK Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 05:03:44

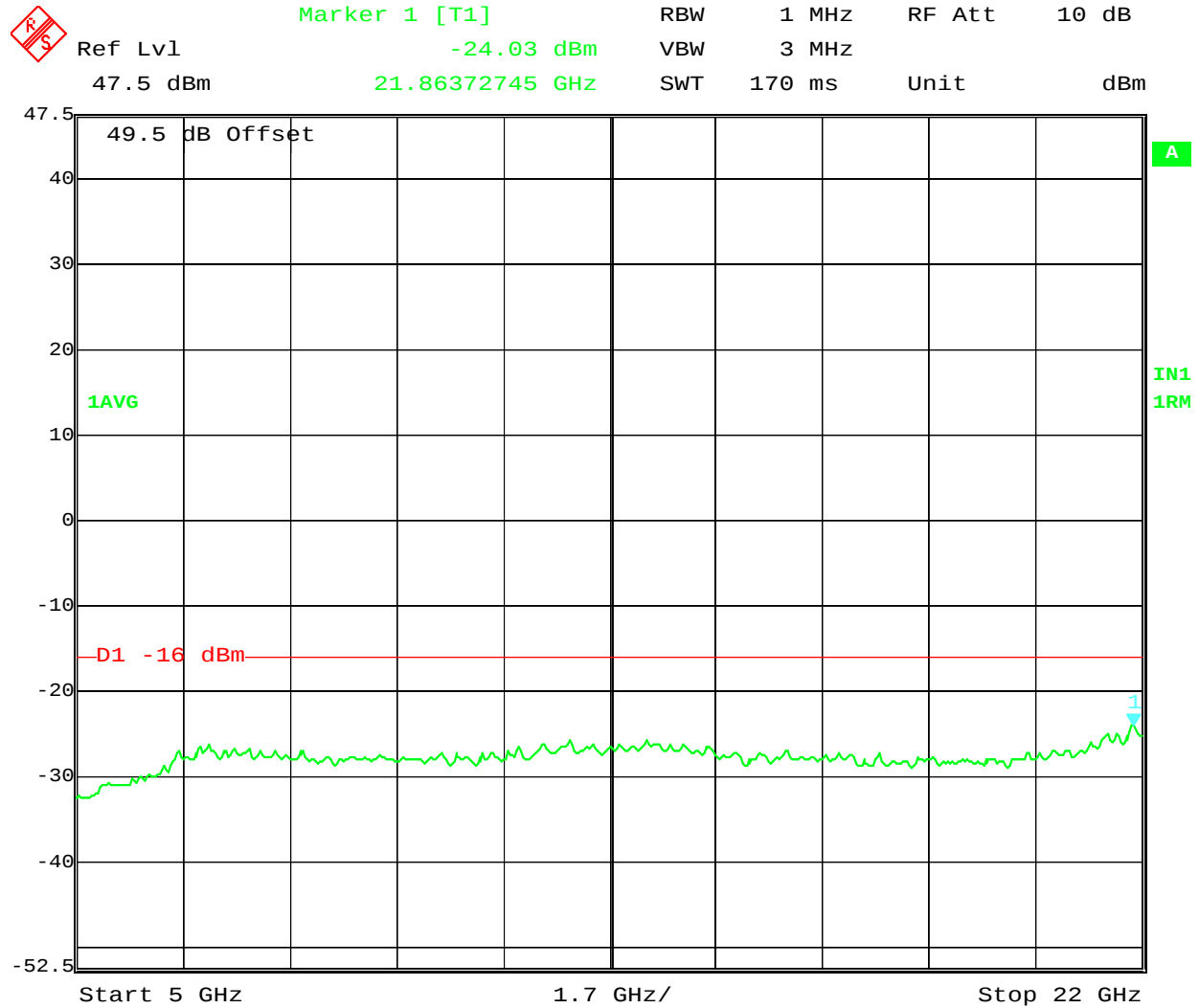


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; QPSK
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 26.AUG.2013 05:04:33



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 05:05:03

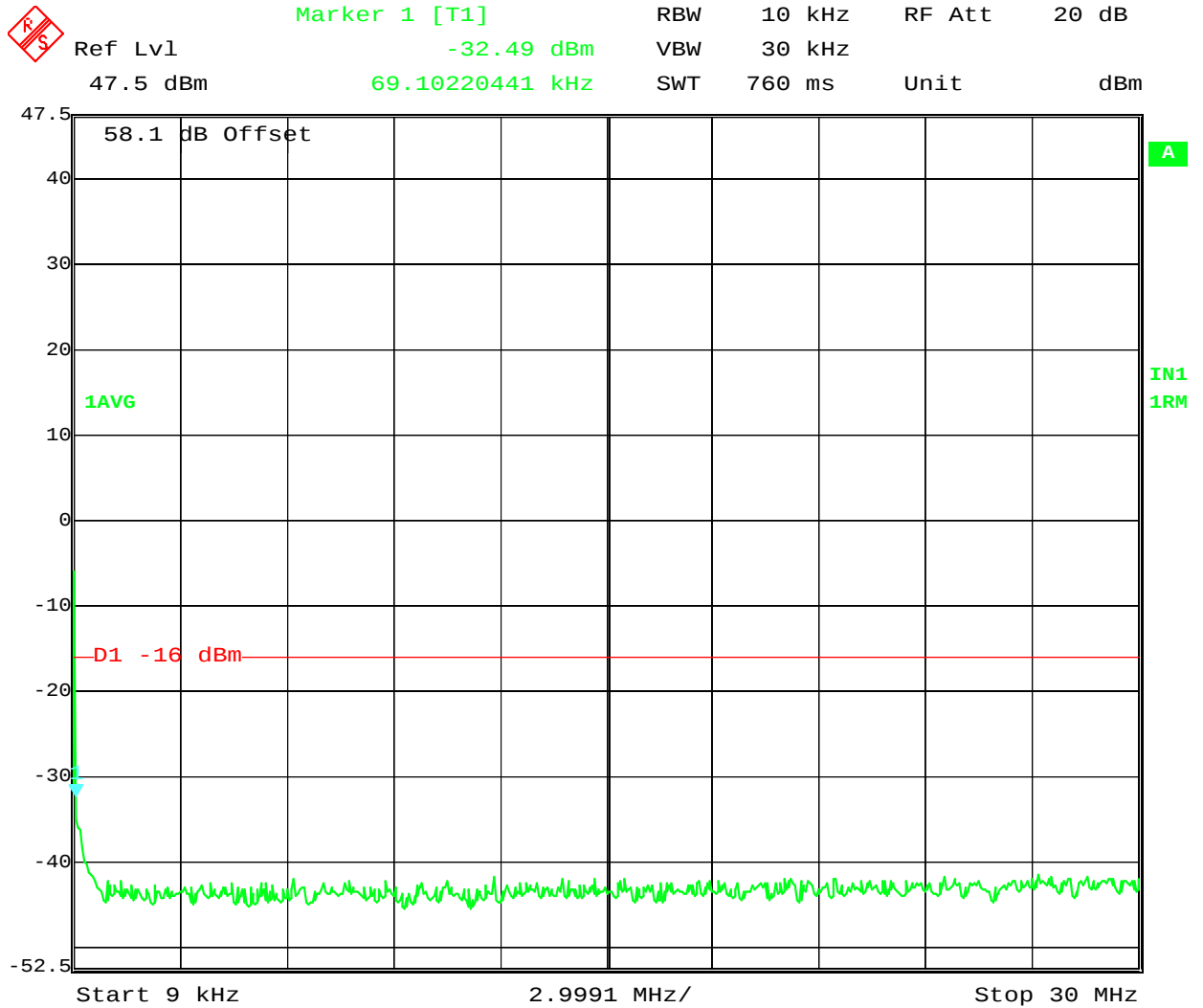
With HPF



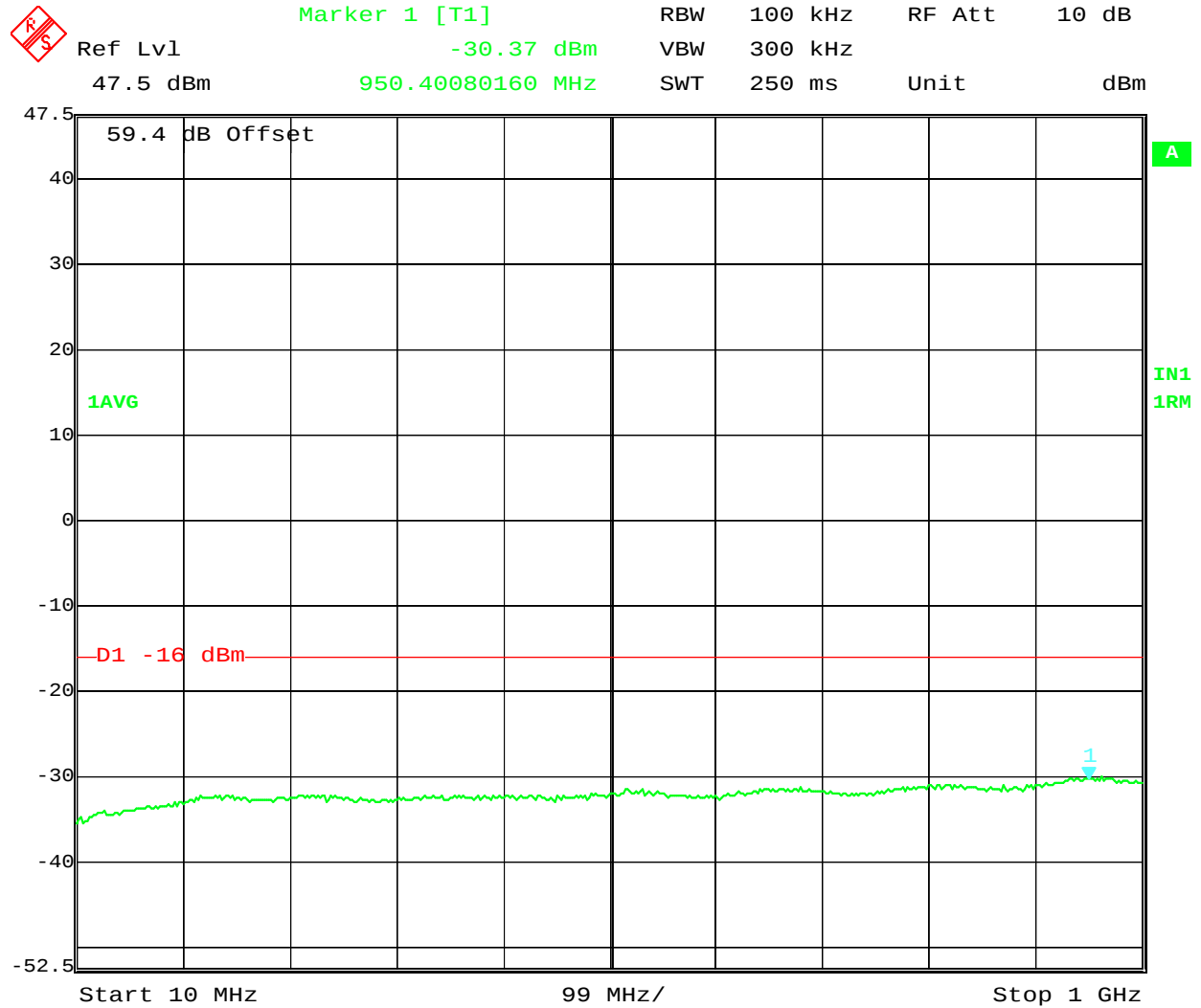
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; QPSK
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 05:05:41

**Transmit Port
Antenna Conducted Spurious Emissions**

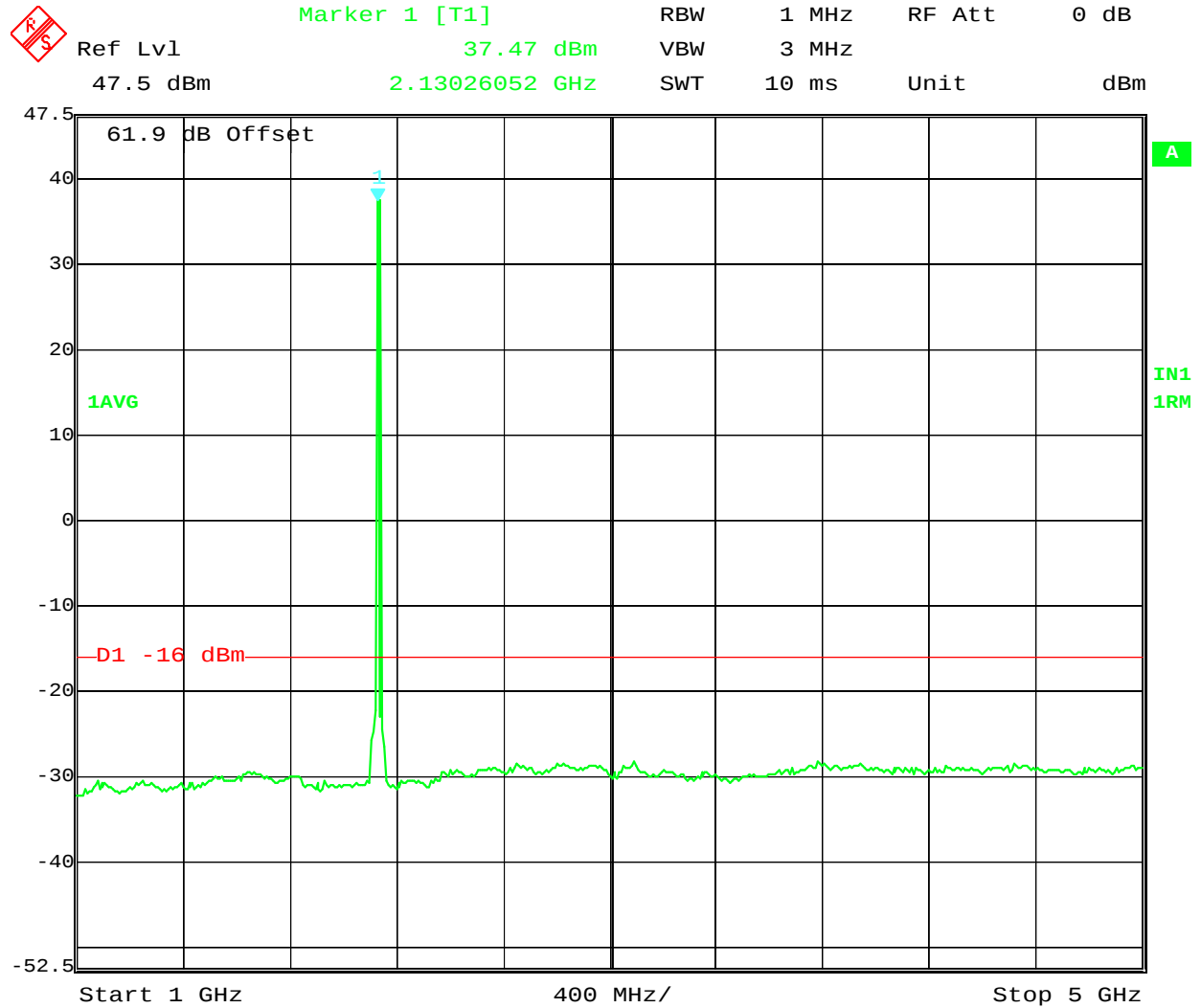
**Block: C+D
10 MHz Bandwidth (2130-2135+2135-2140 MHz)
2x60 watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 12:21:46



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 12:20:58



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 12:22:58

With HPF



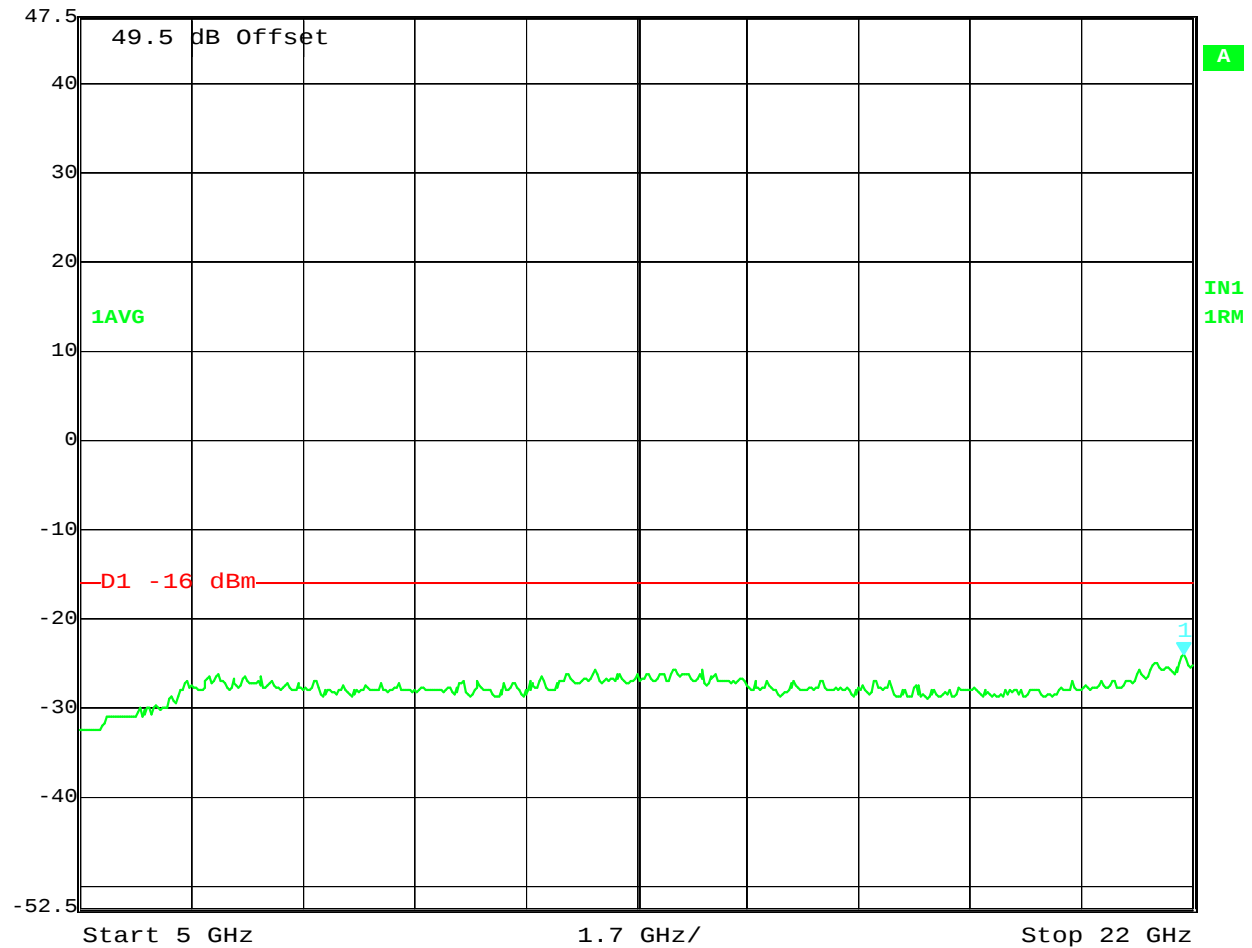
Ref Lvl
47.5 dBm

Marker 1 [T1]

-24.03 dBm

21.86372745 GHz

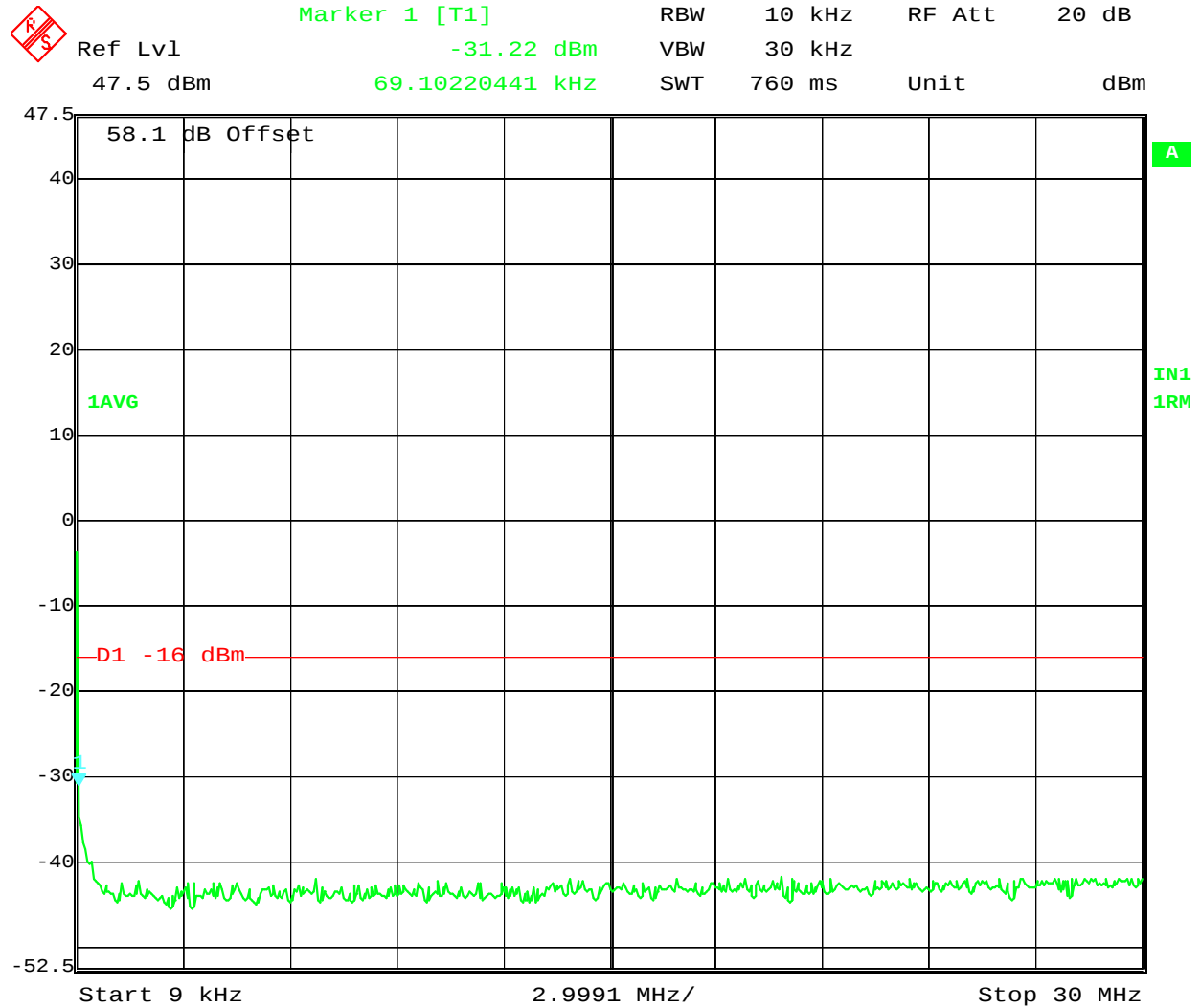
RBW 1 MHz RF Att 10 dB
VBW 3 MHz
SWT 170 ms Unit dBm



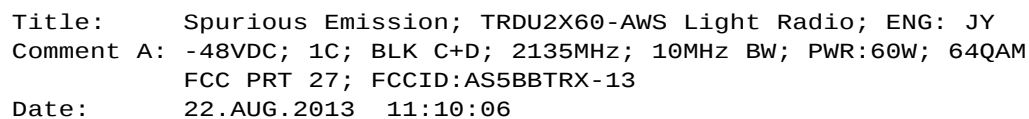
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 16QAM
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 12:23:36

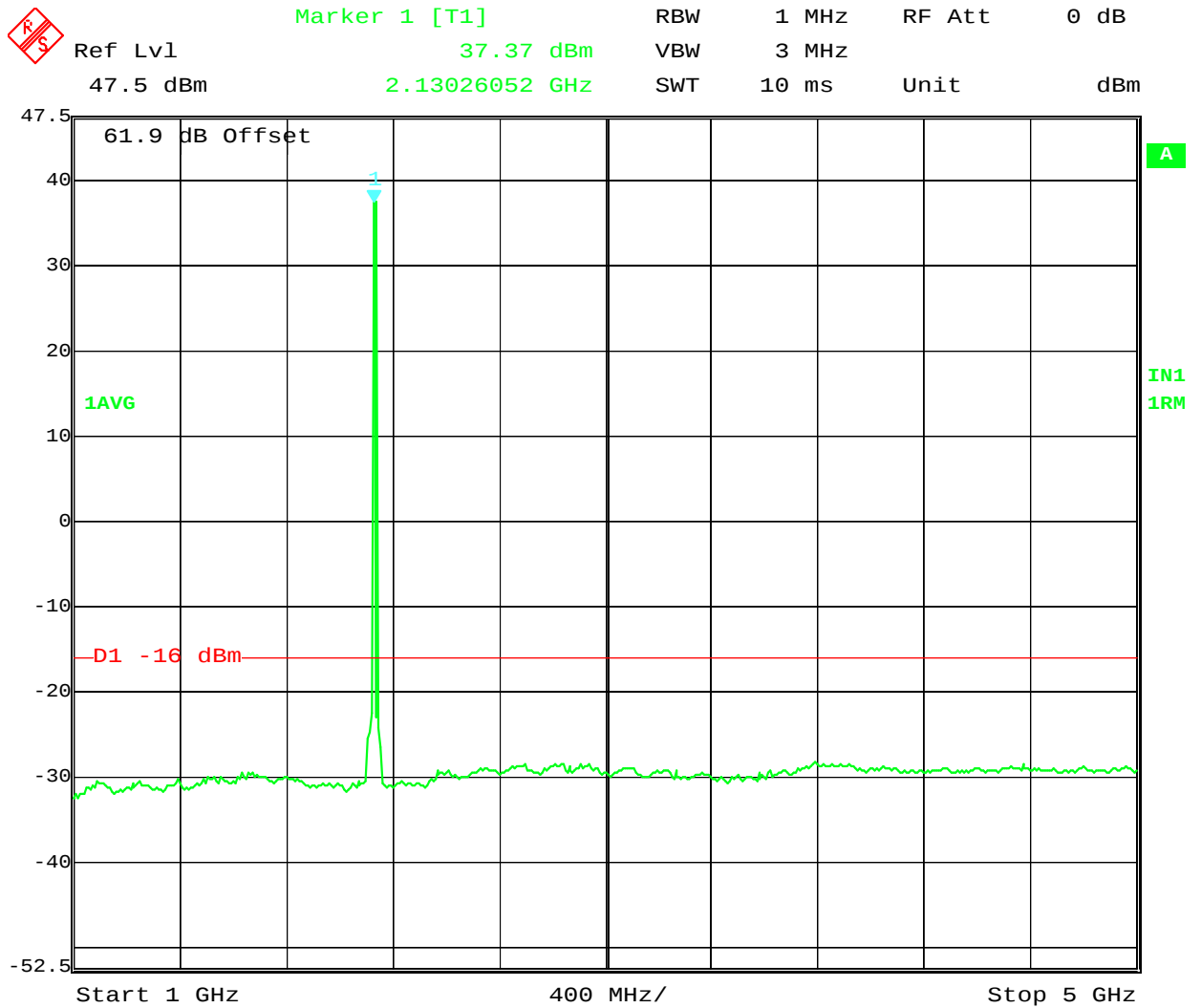
**Transmit Port
Antenna Conducted Spurious Emissions**

**Block: C+D
10 MHz Bandwidth (2130-2135+2135-2140 MHz)
2x60 watts (MIMO)
64QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 11:08:48





Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 11:10:54

With HPF



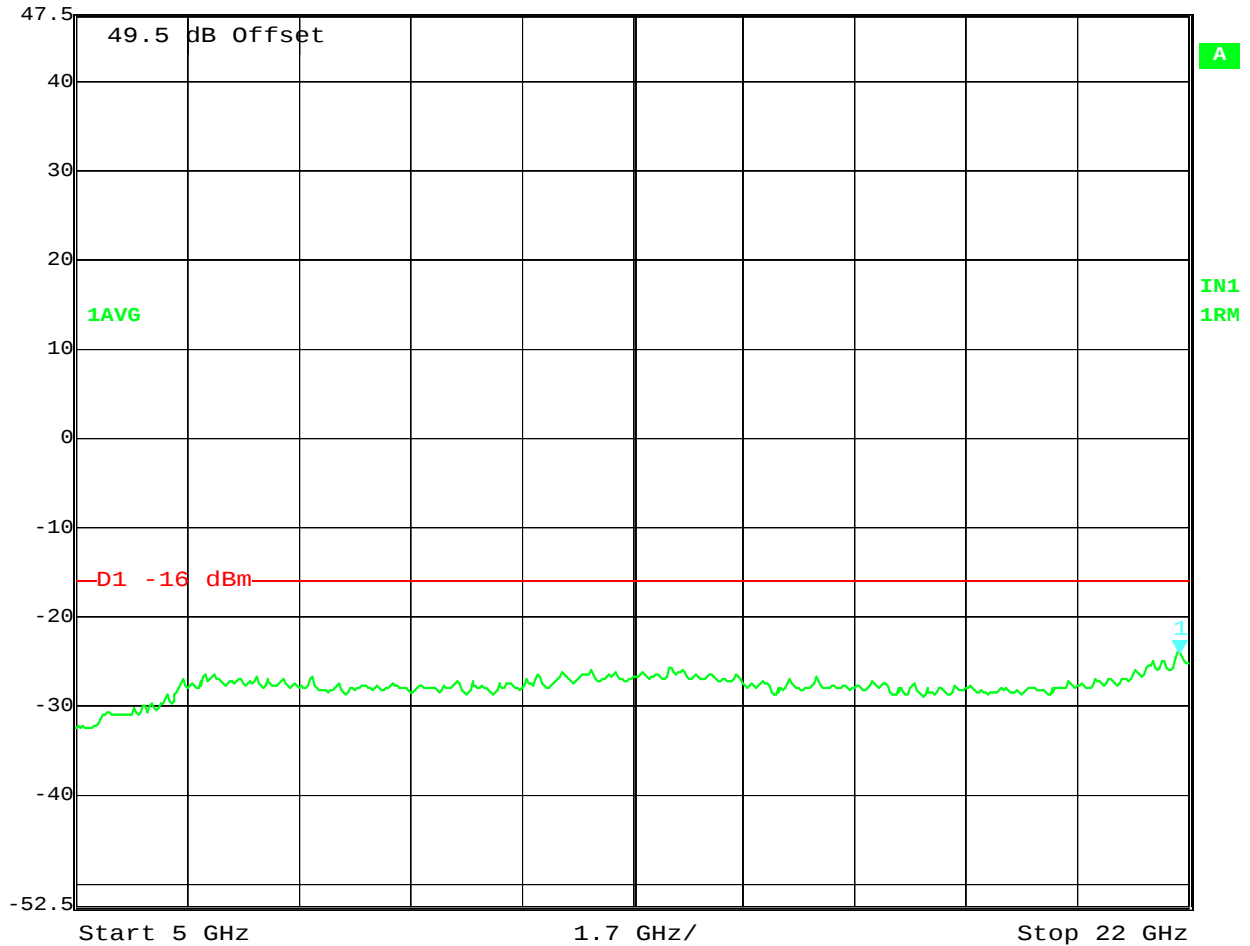
Ref Lvl
47.5 dBm

Marker 1 [T1]

-24.10 dBm

21.86372745 GHz

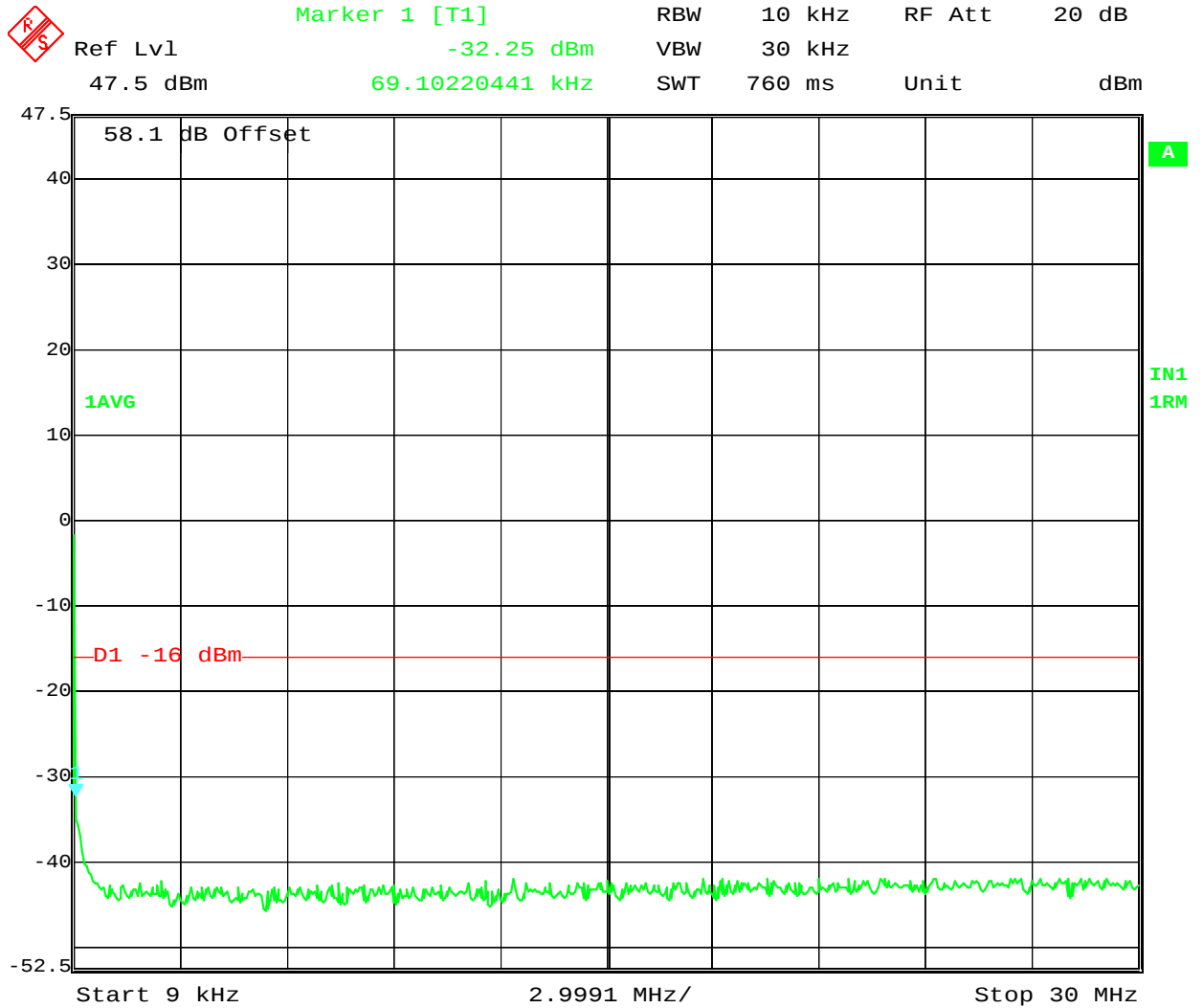
RBW 1 MHz RF Att 10 dB
VBW 3 MHz
SWT 170 ms Unit dBm



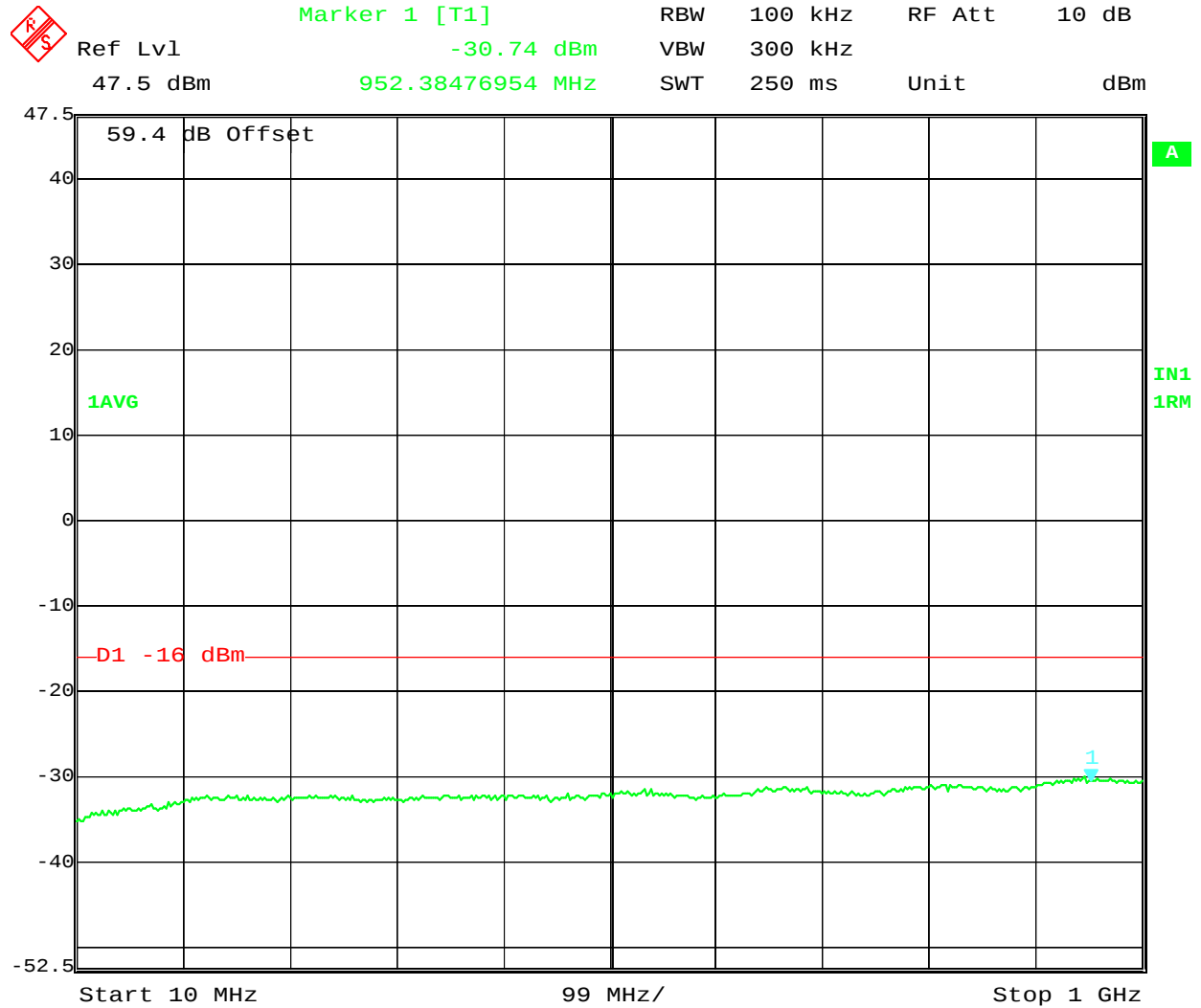
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK C+D; 2135MHz; 10MHz BW; PWR:60W; 64QAM
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 11:11:40

**Transmit Port
Antenna Conducted Spurious Emissions**

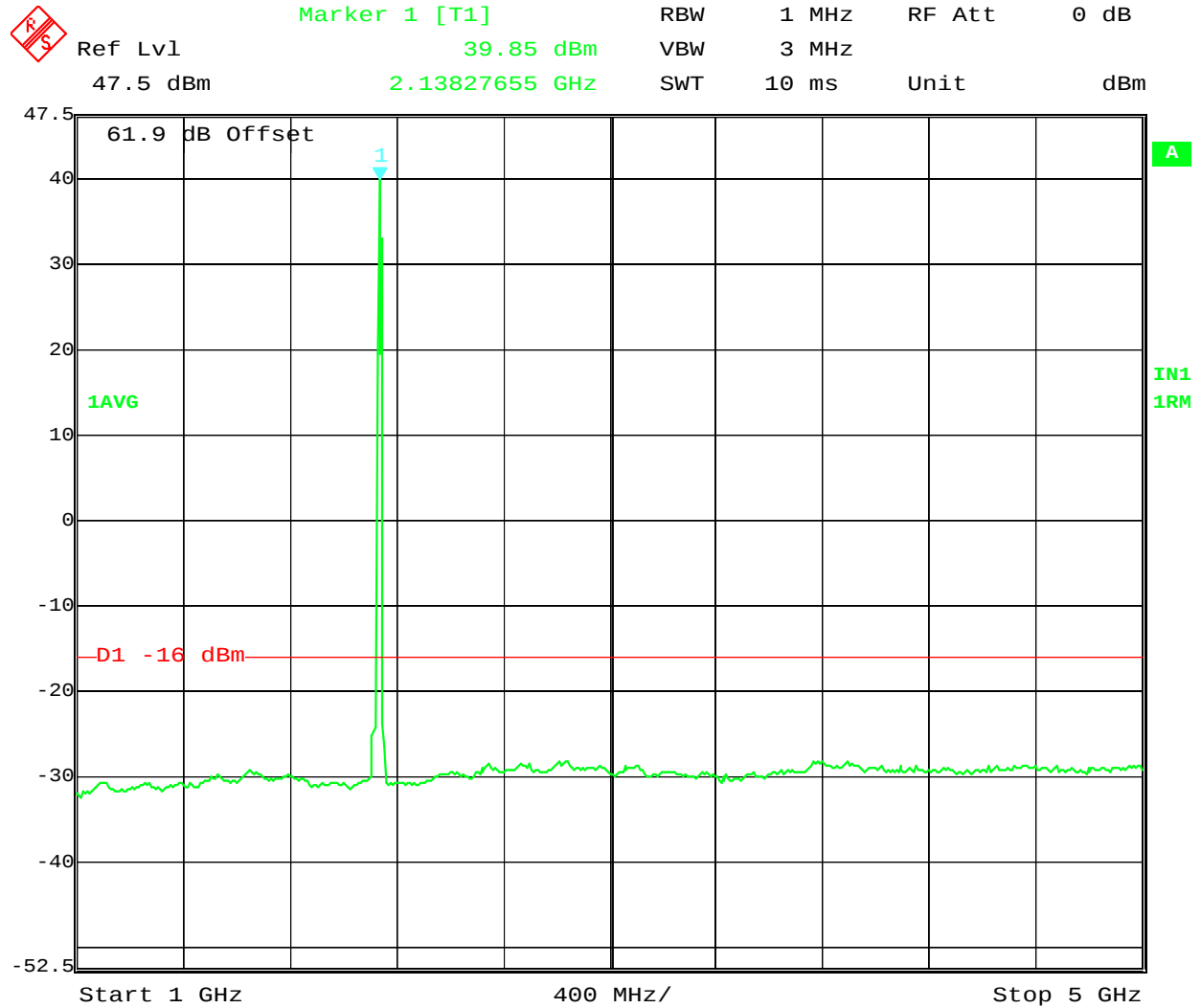
**Block: D+E
10 MHz Bandwidth (2135-2140+2140-2145 MHz)
2x60watts (MIMO)
QPSK Modulation**



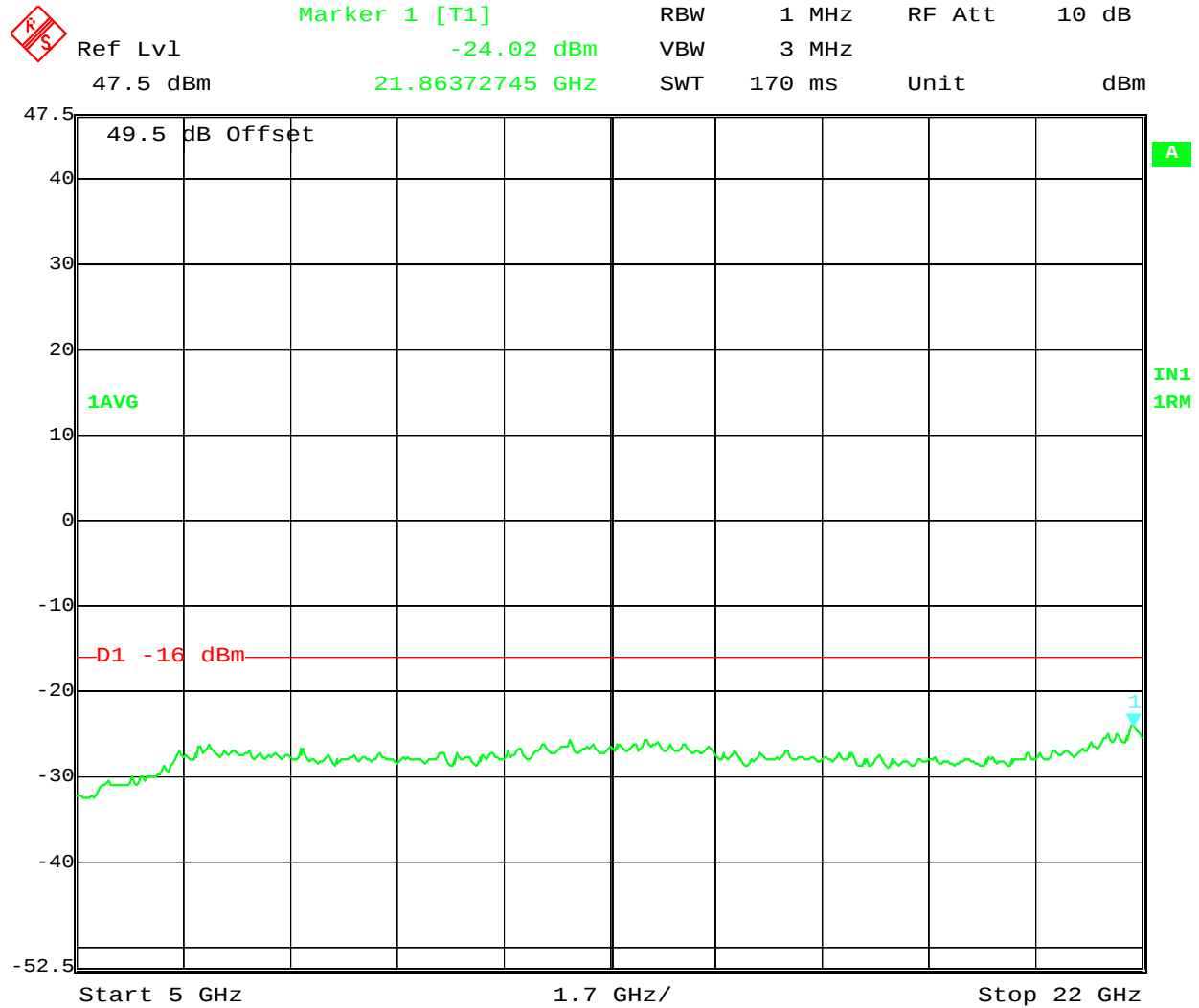
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; QPSK
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 26.AUG.2013 08:14:09



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 08:17:05



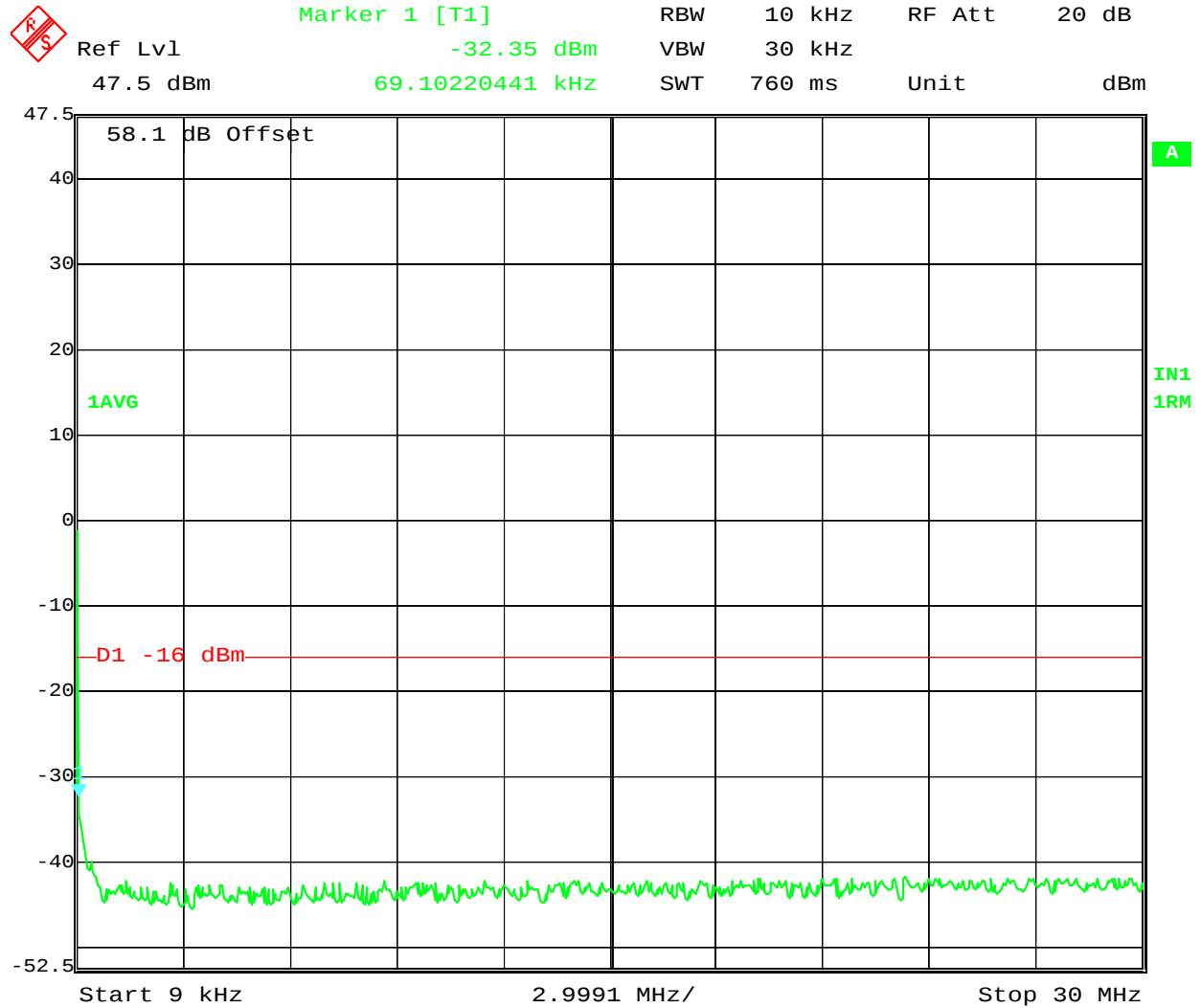
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; QPSK
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 26.AUG.2013 08:18:11



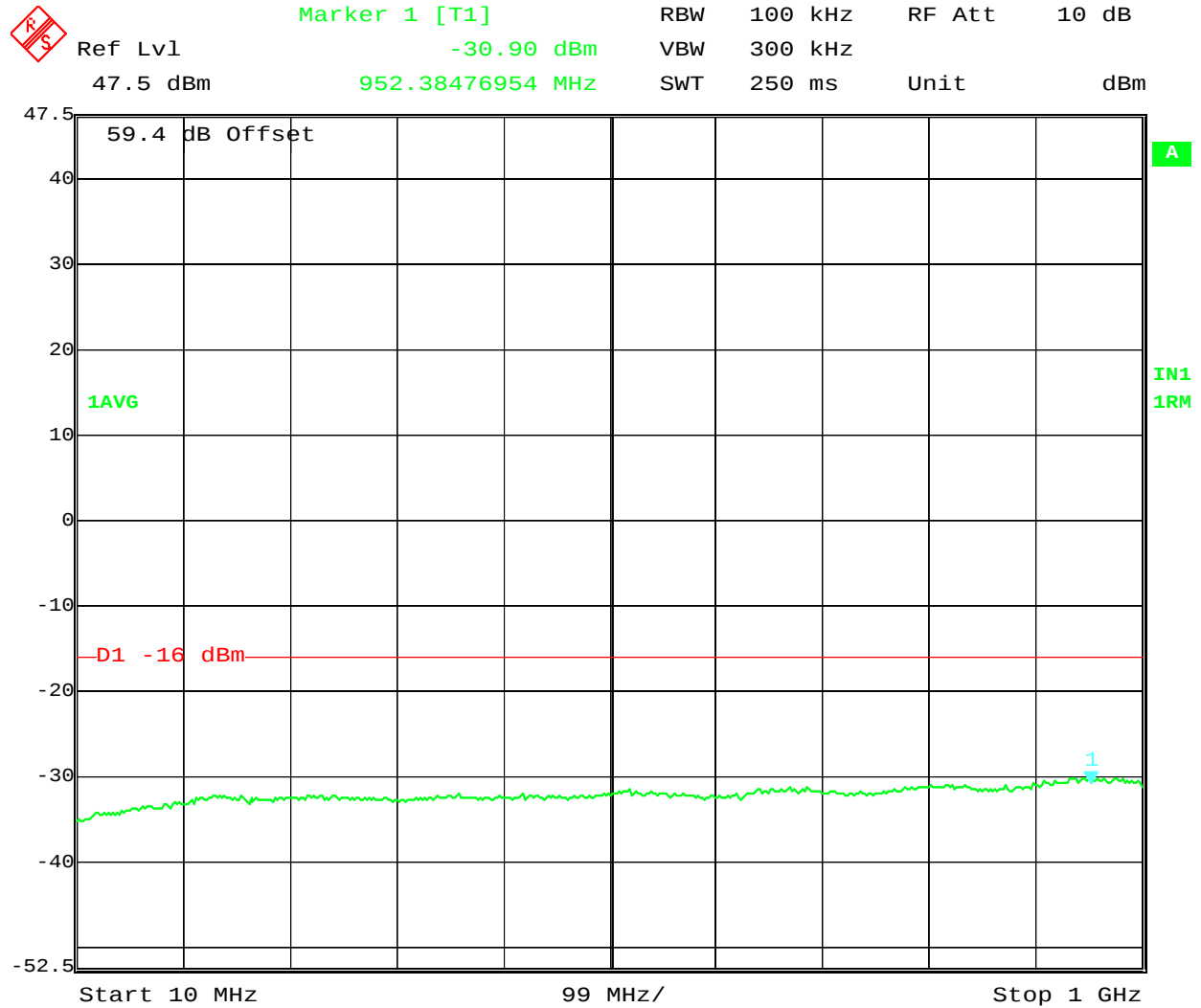
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; QPSK
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 08:19:16

**Transmit Port
Antenna Conducted Spurious Emissions**

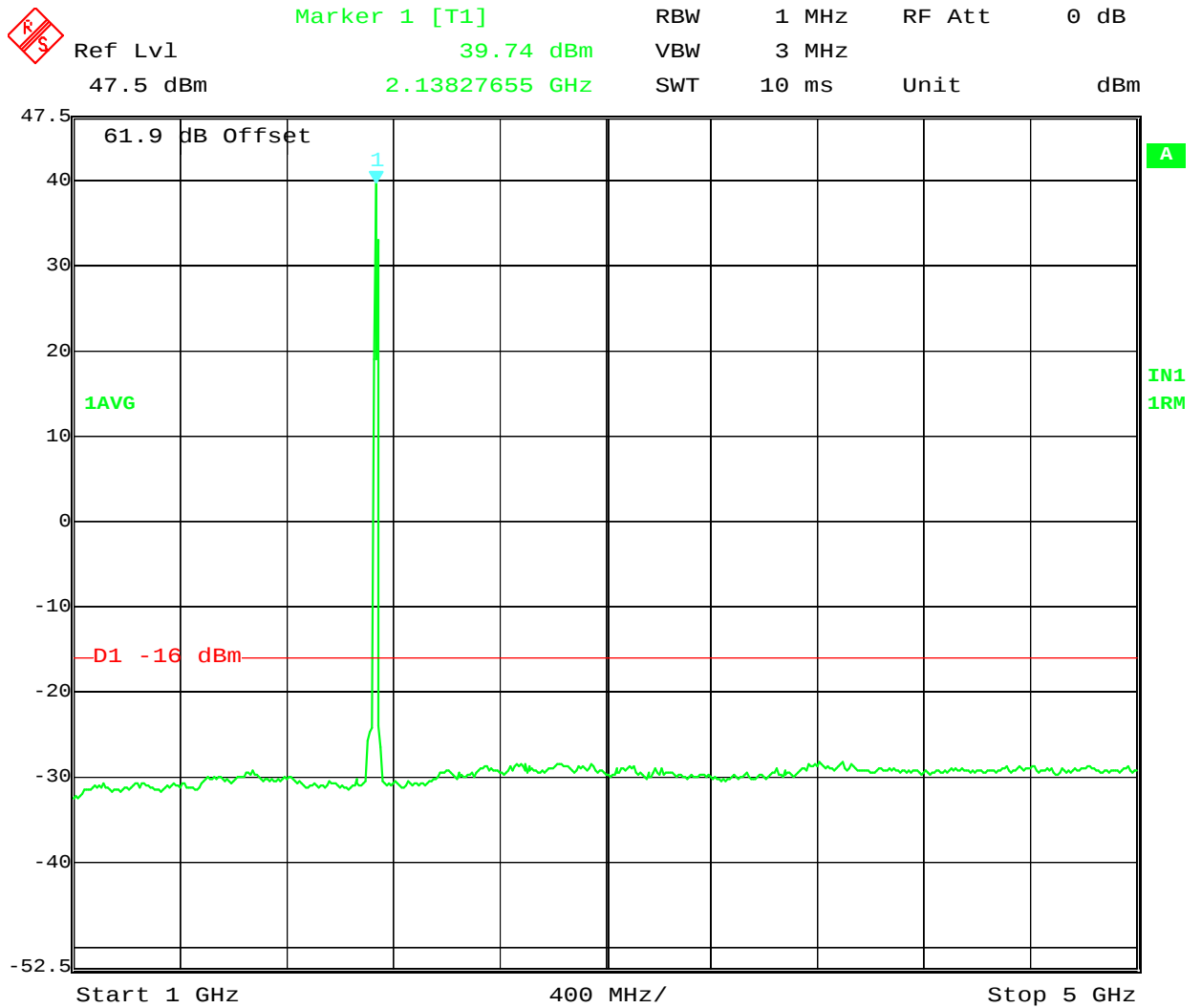
**Block: D+E
10 MHz Bandwidth (2135-2140+2140-2145 MHz)
2x60watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 16QAM
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 26.AUG.2013 09:00:59



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 09:02:24



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 09:03:15

With HPF



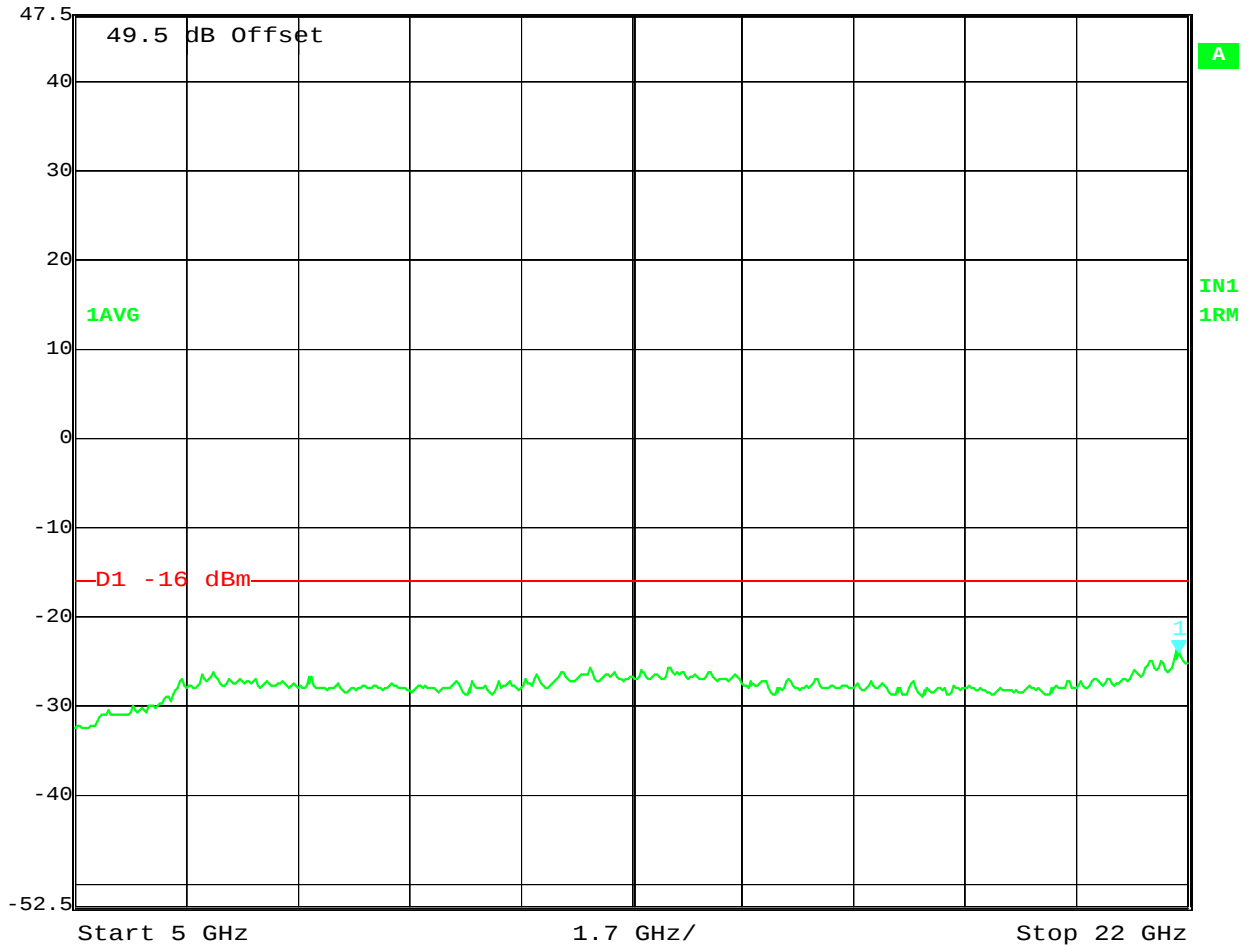
Ref Lvl
47.5 dBm

Marker 1 [T1]

-24.01 dBm

21.86372745 GHz

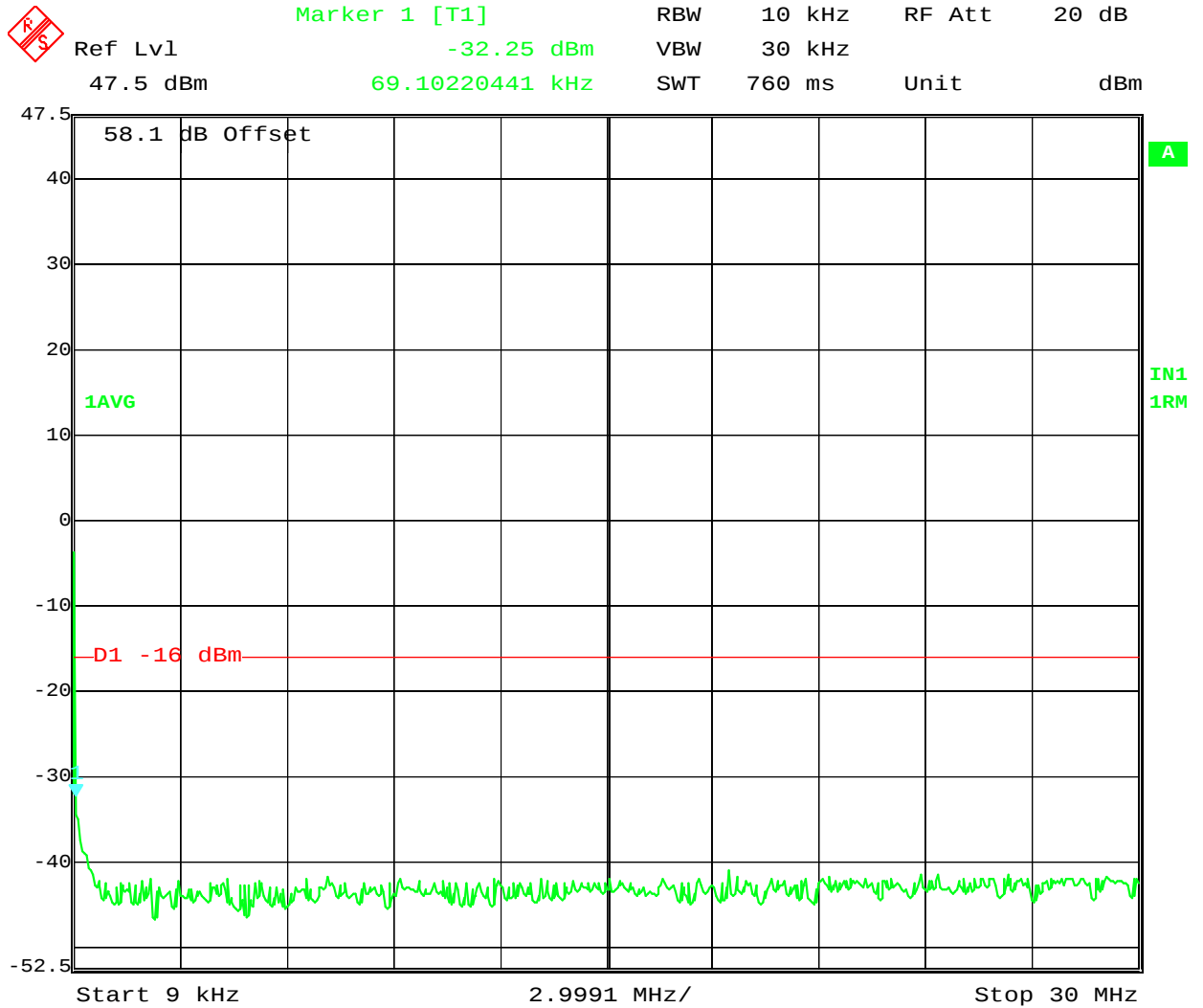
RBW 1 MHz RF Att 10 dB
VBW 3 MHz
SWT 170 ms Unit dBm



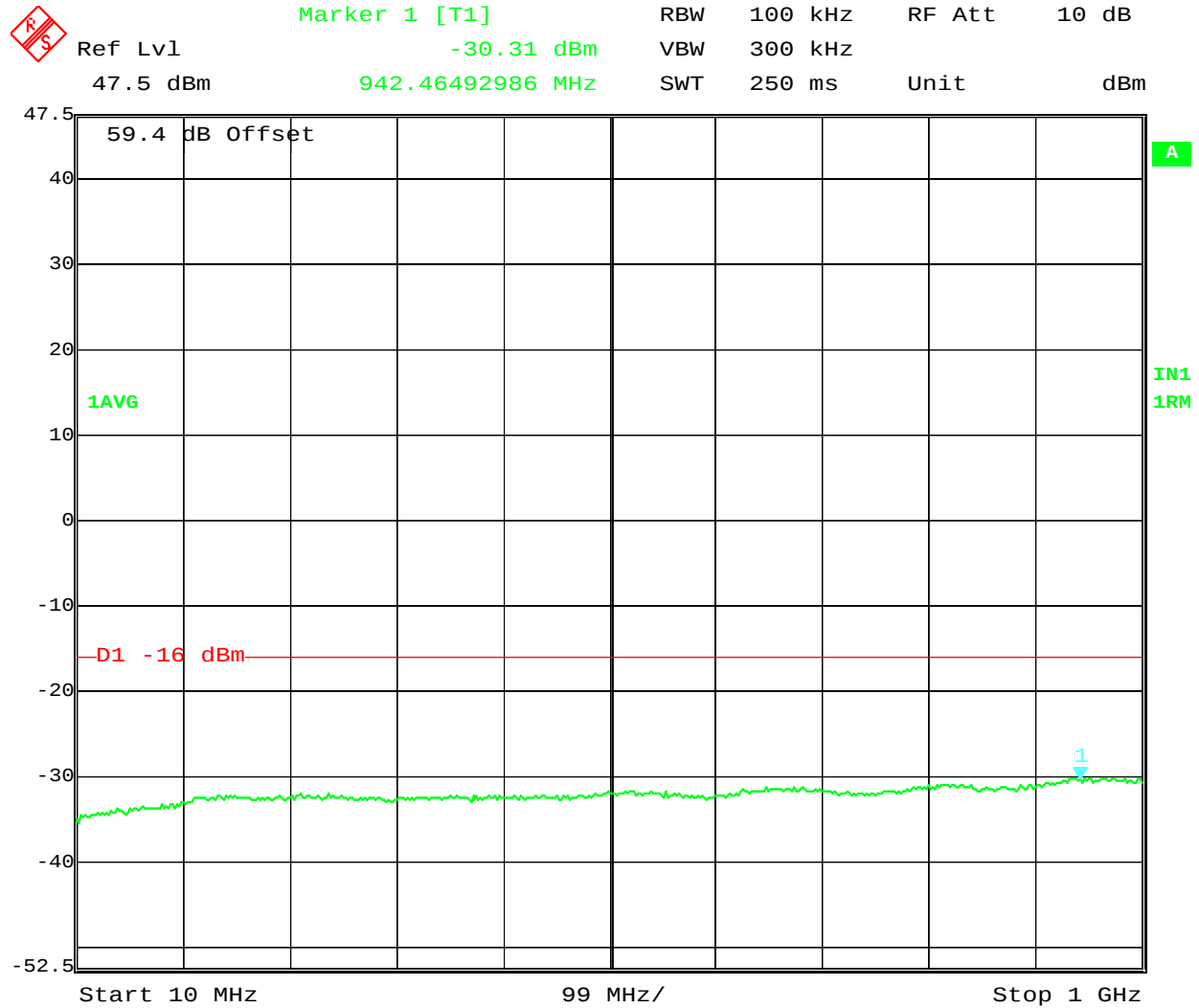
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 16QAM
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 09:06:17

**Transmit Port
Antenna Conducted Spurious Emissions**

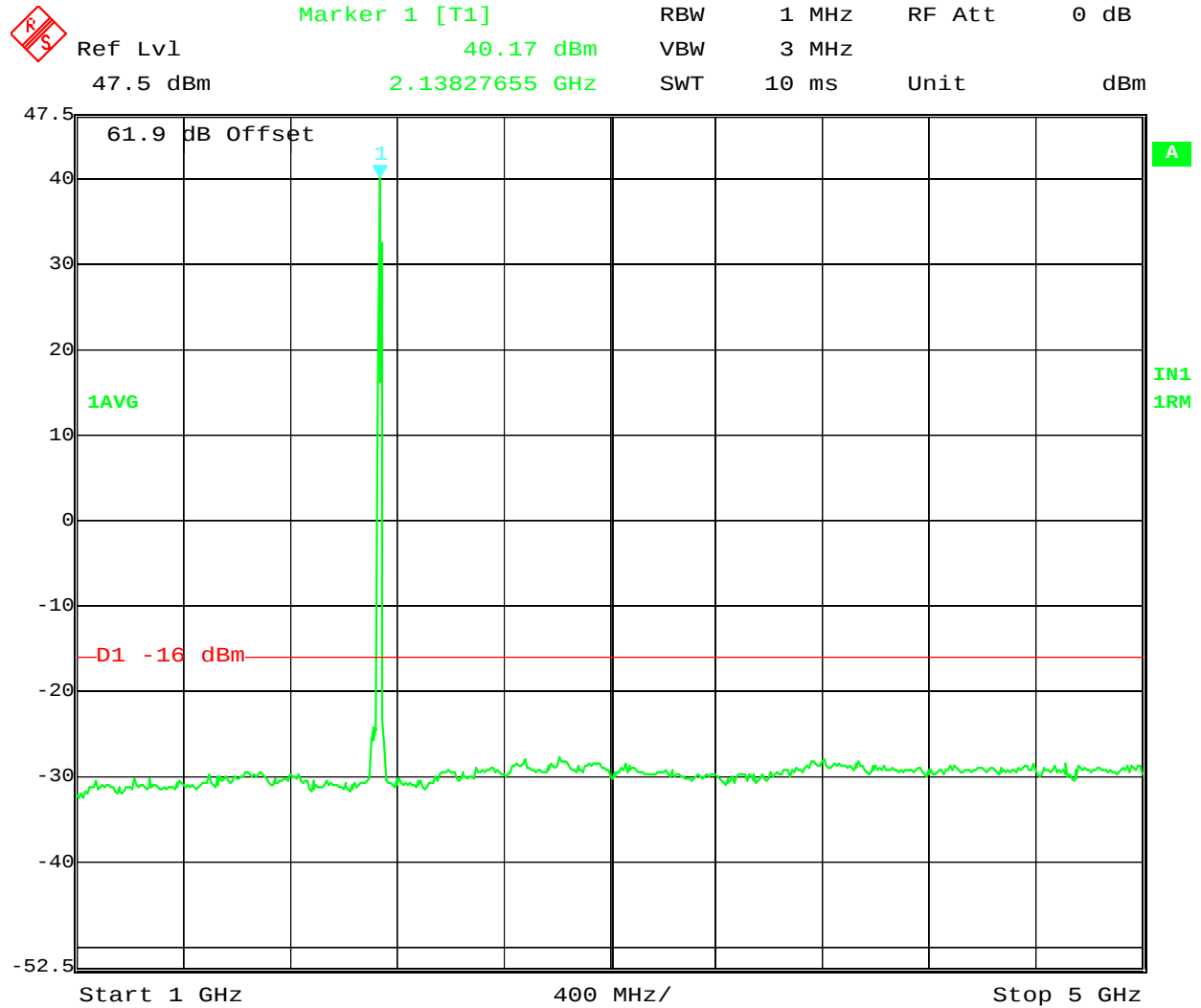
**Block: D+E
10 MHz Bandwidth (2135-2140+2140-2145 MHz)
2x60watts (MIMO)
64QAM Modulation**



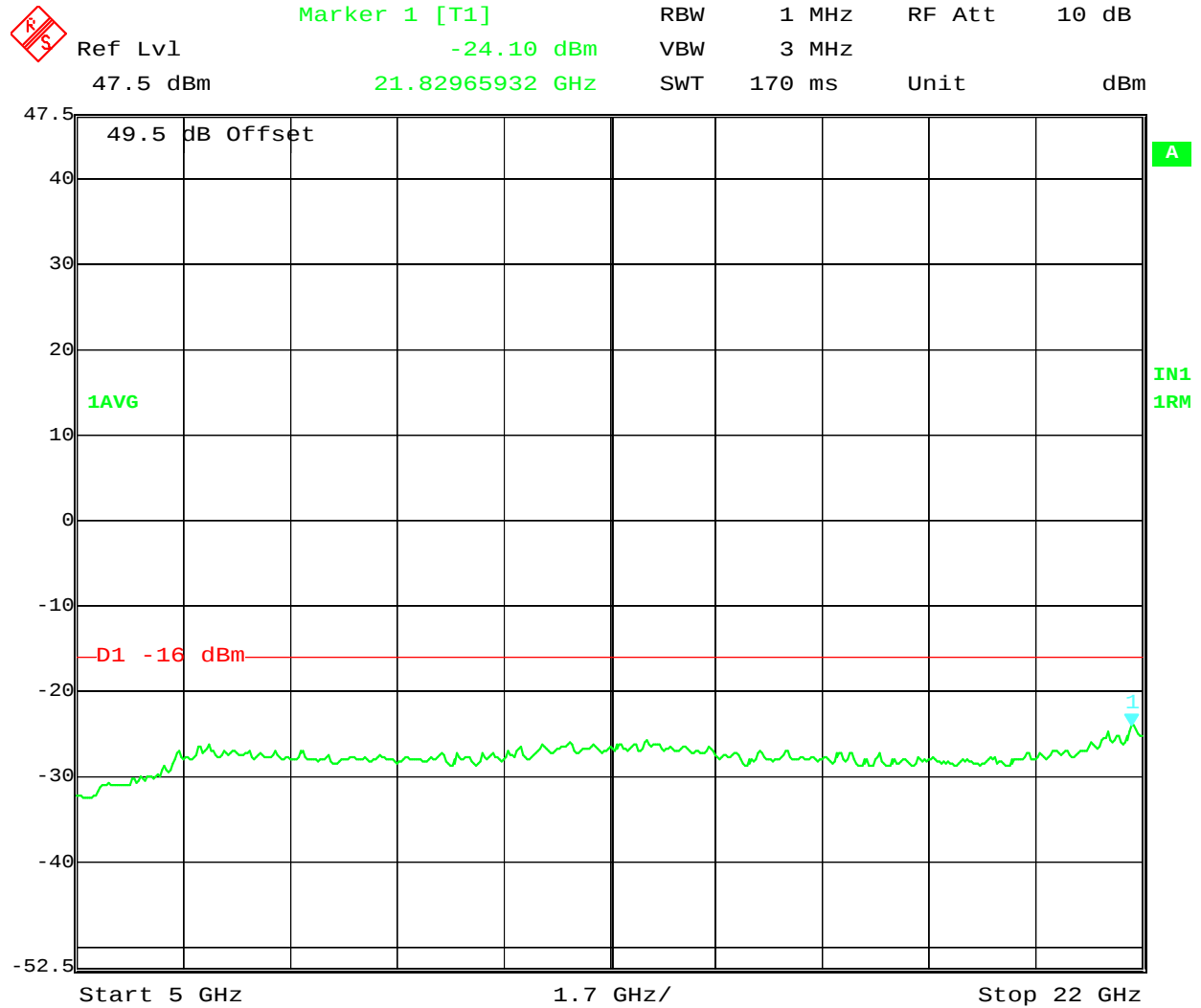
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 09:24:03



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 09:25:18



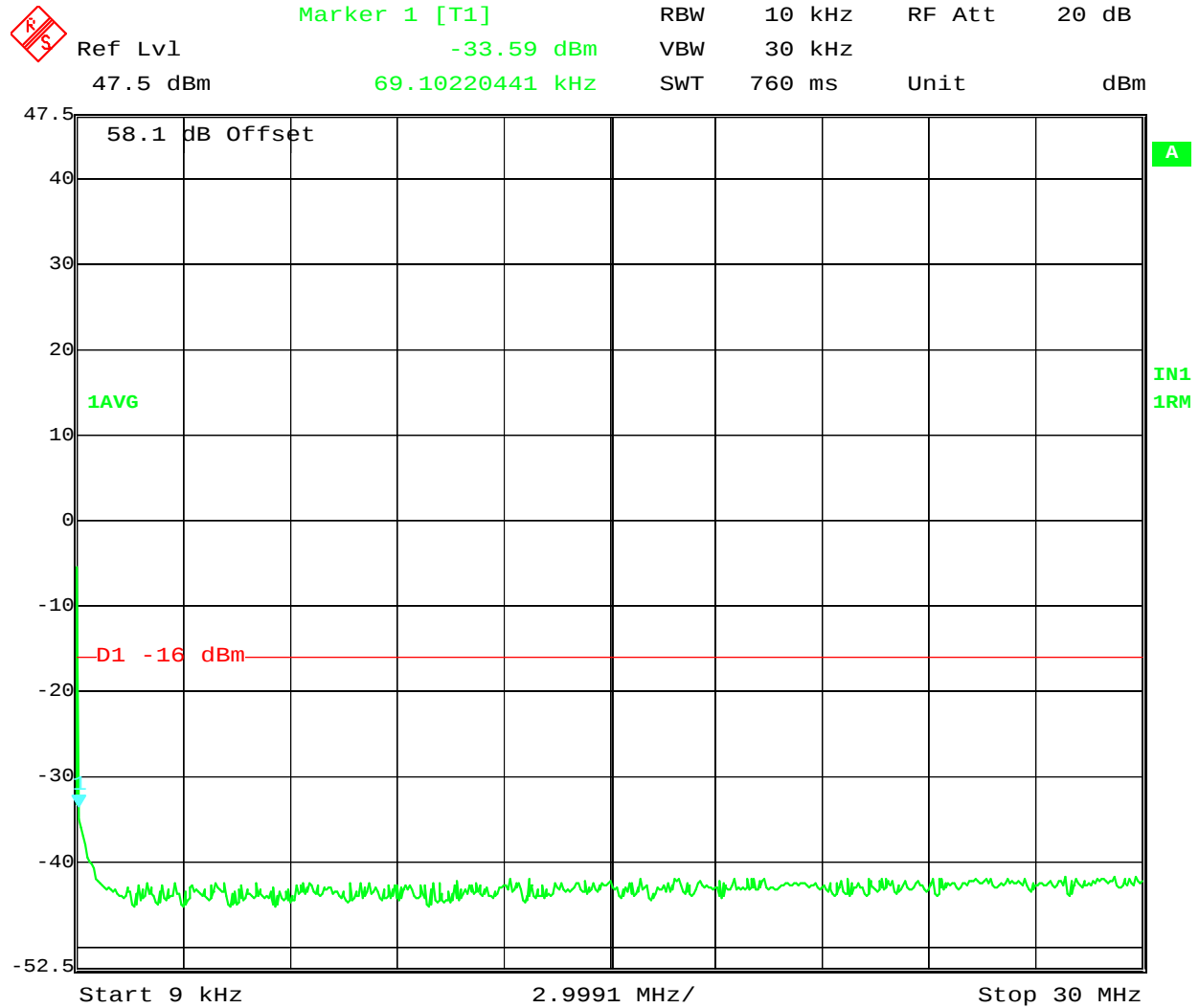
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 64QAM
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 26.AUG.2013 09:26:11



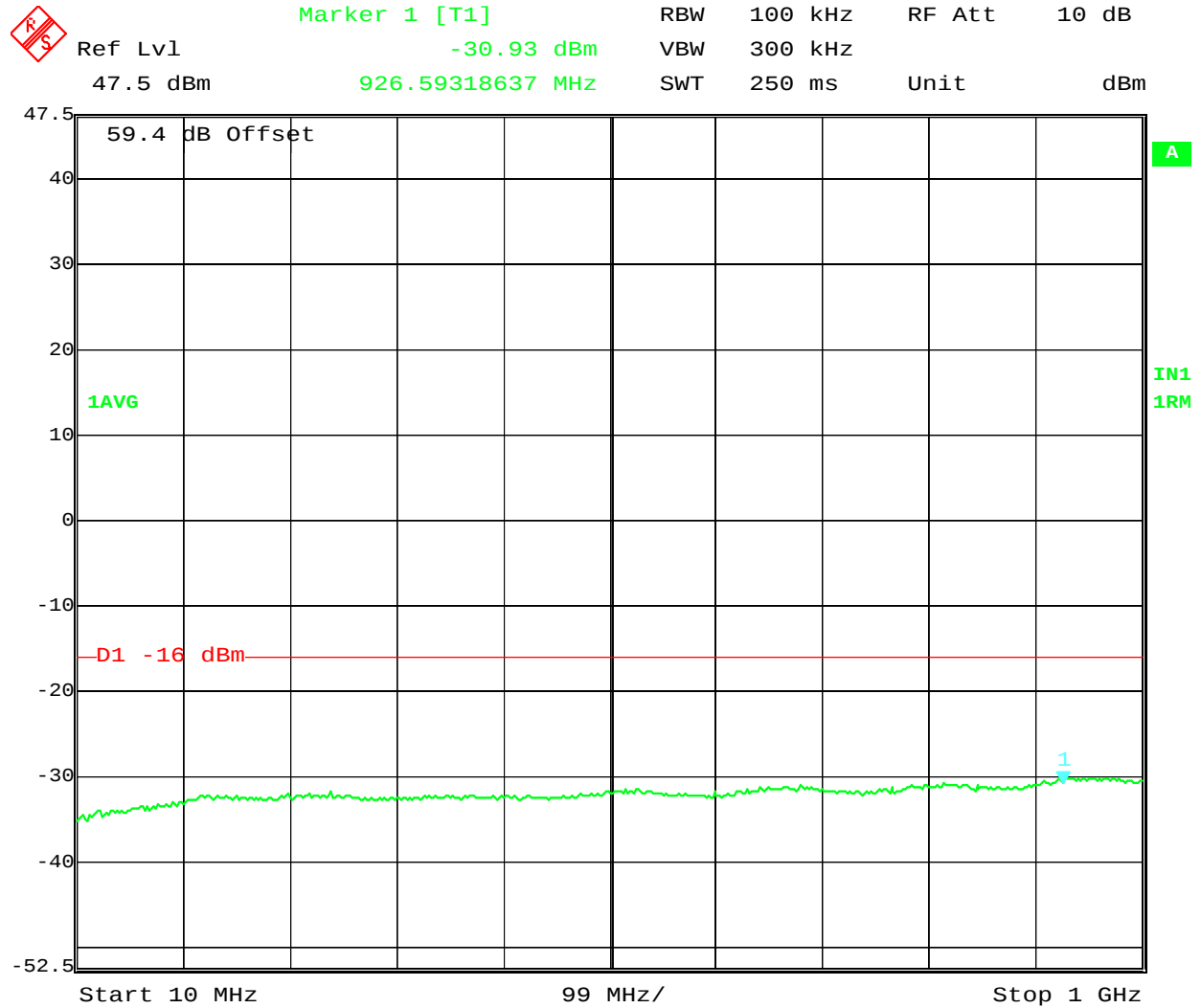
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK D+E; 2140MHz; 10MHz BW; PWR:60W; 64QAM
 HPF; FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 26.AUG.2013 09:26:59

**Transmit Port
Antenna Conducted Spurious Emissions**

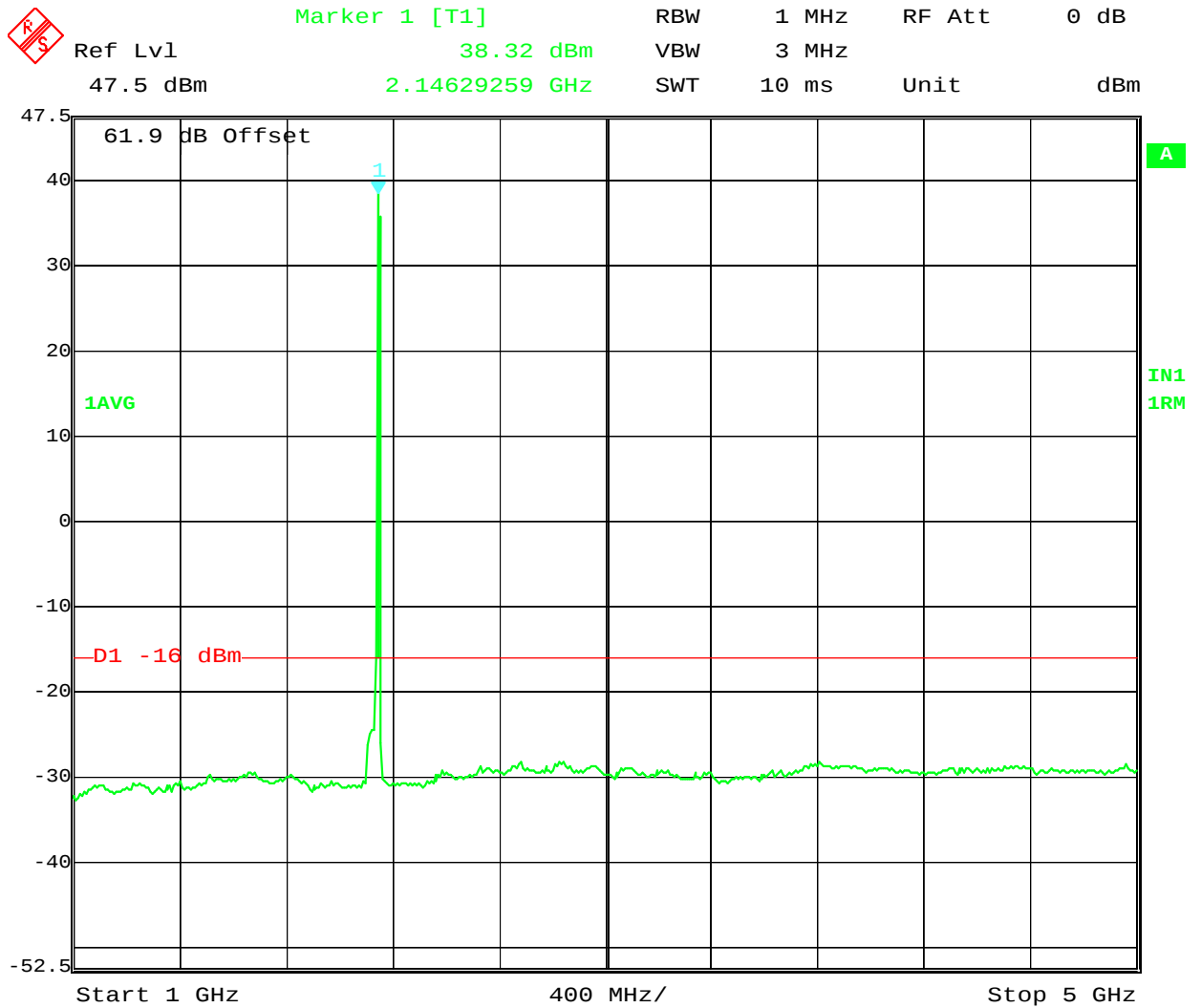
**Block: F
10 MHz Bandwidth (2145-2155 MHz)
2x60watts (MIMO)
QPSK Modulation**



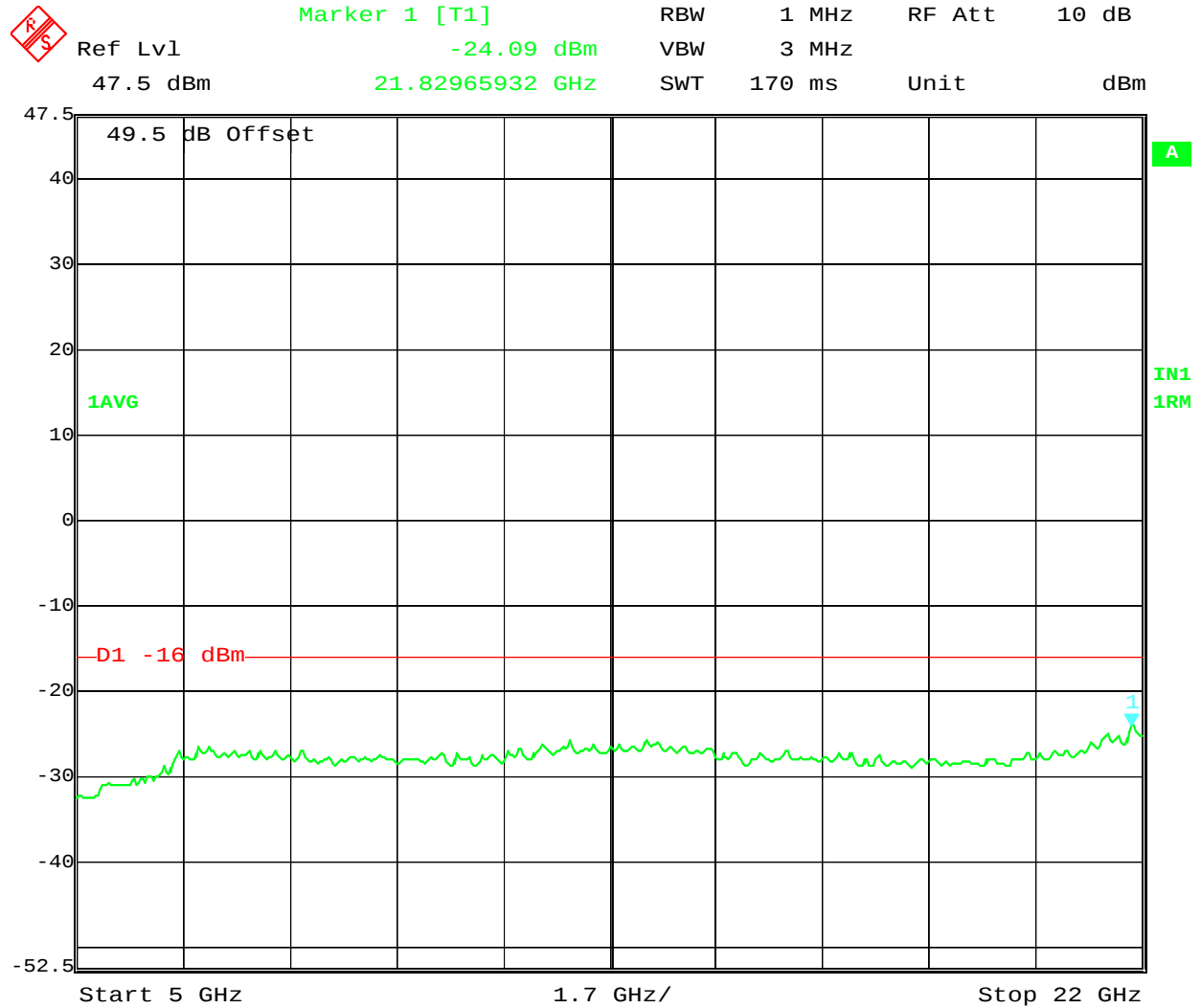
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 03:46:21



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 03:48:28



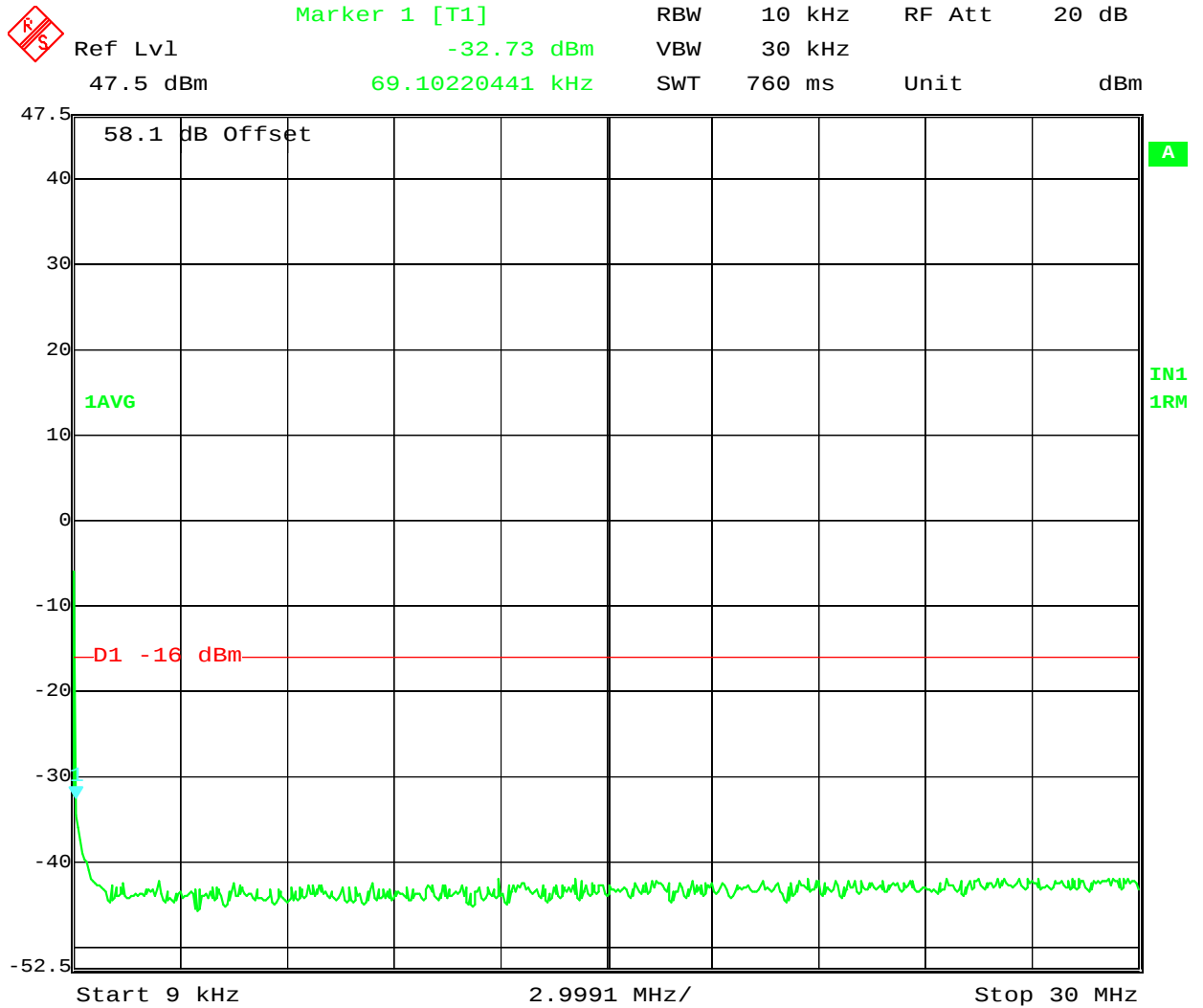
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; QPSK
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 22.AUG.2013 03:51:04



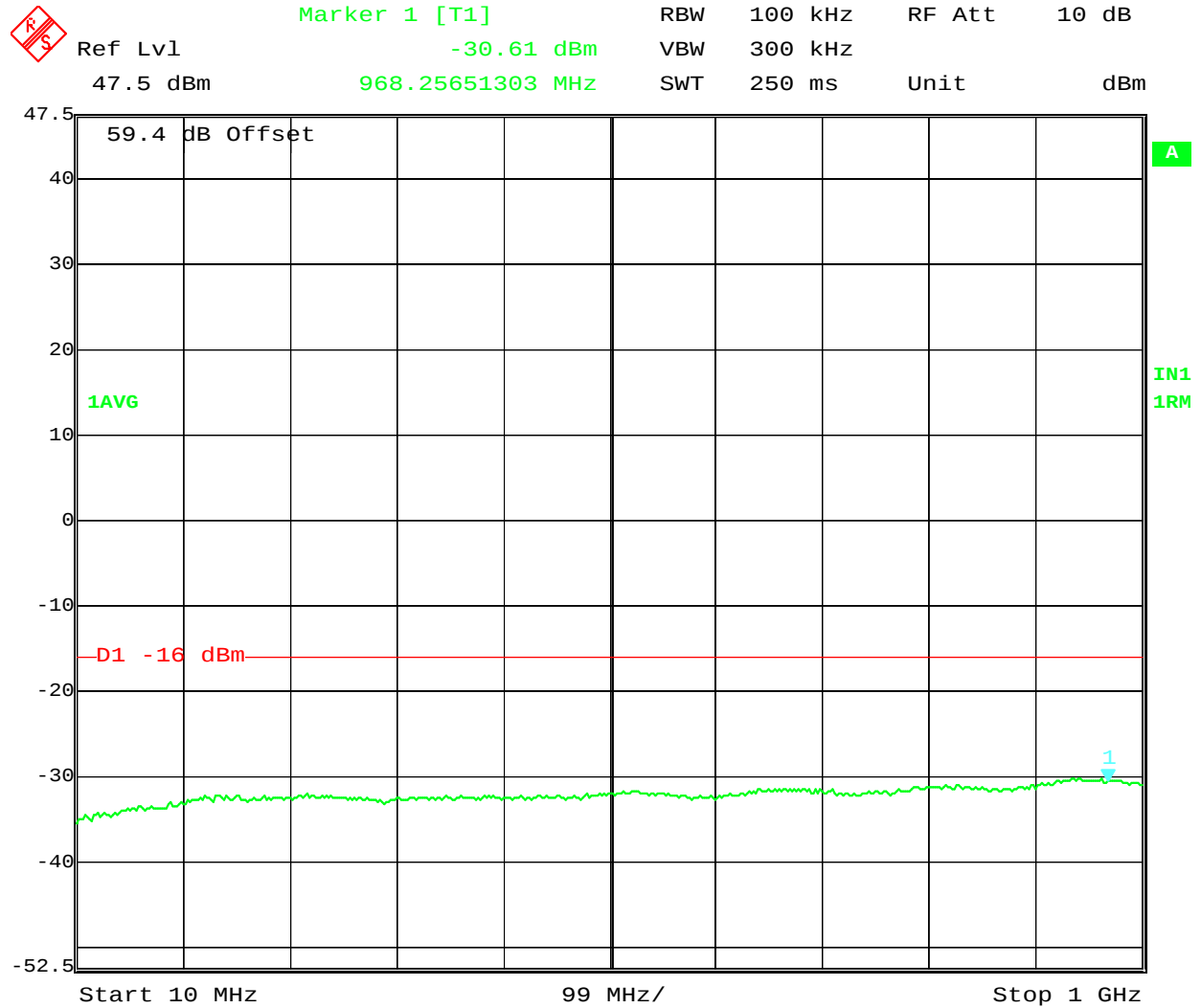
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; QPSK
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 03:52:04

**Transmit Port
Antenna Conducted Spurious Emissions**

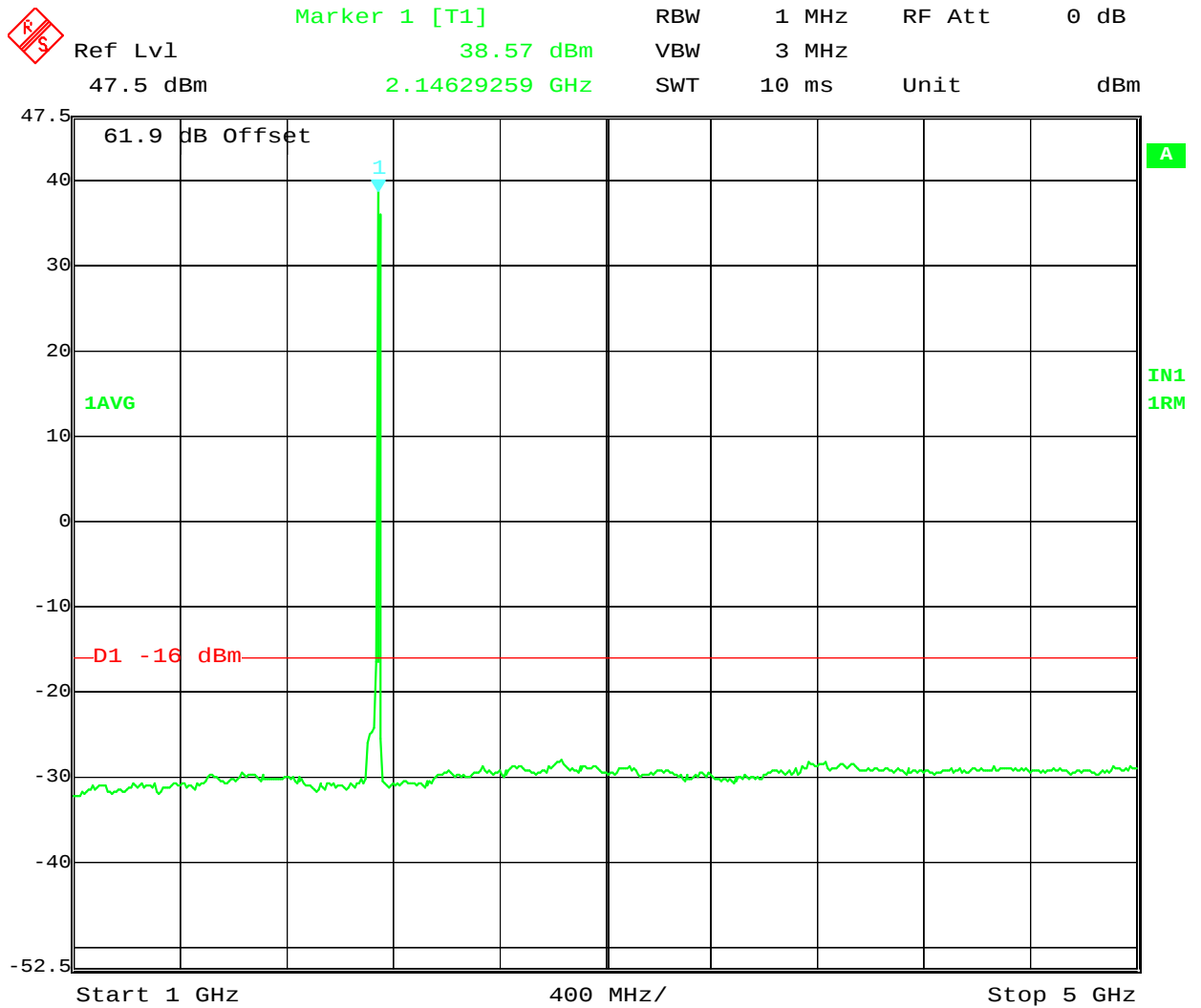
**Block: F
10 MHz Bandwidth (2145-2155 MHz)
2x60watts (MIMO)
16QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 06:44:07

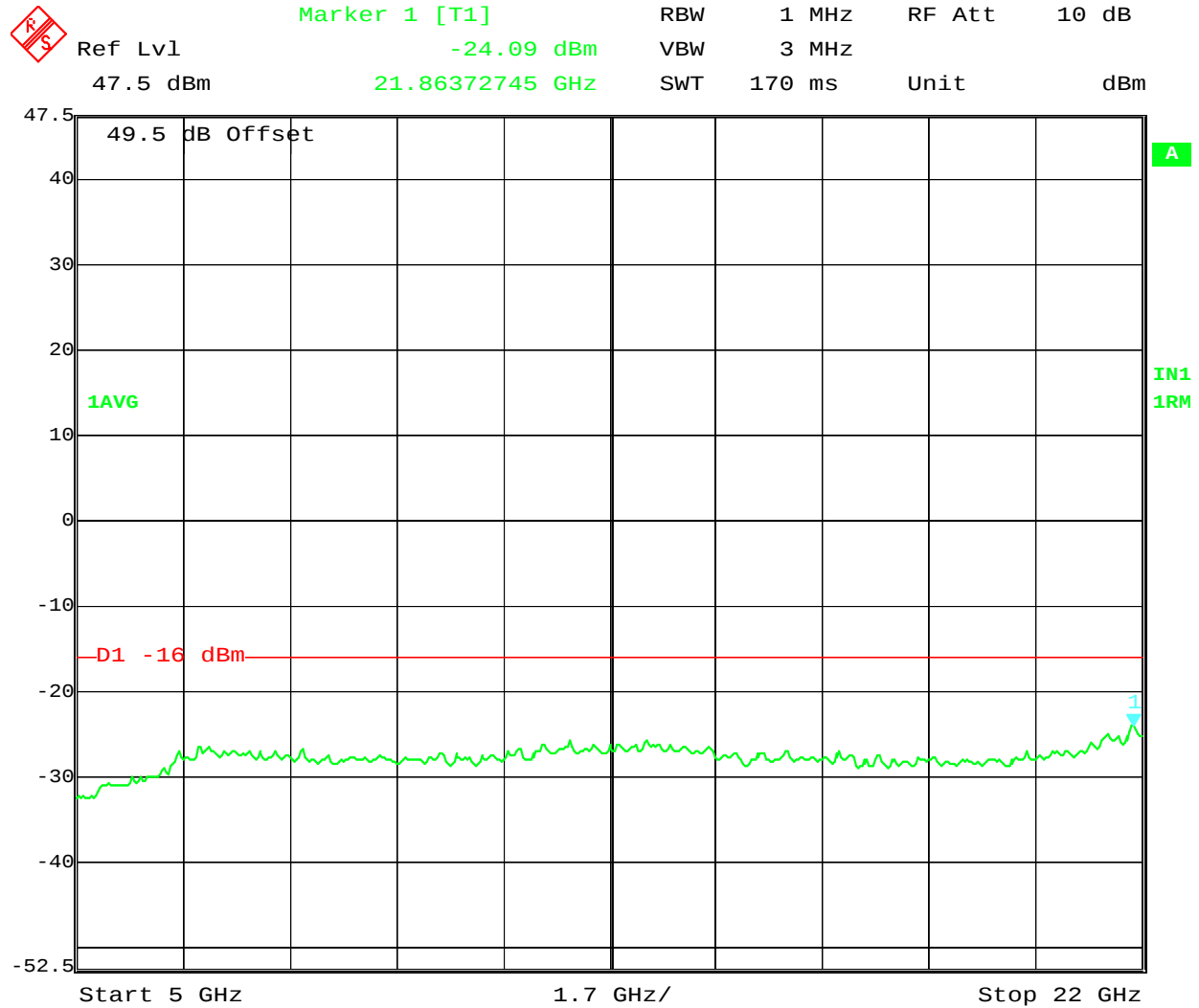


Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 16QAM
FCC PRT 27; FCCID:AS5BBTRX-13
Date: 22.AUG.2013 06:44:51



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 06:45:32

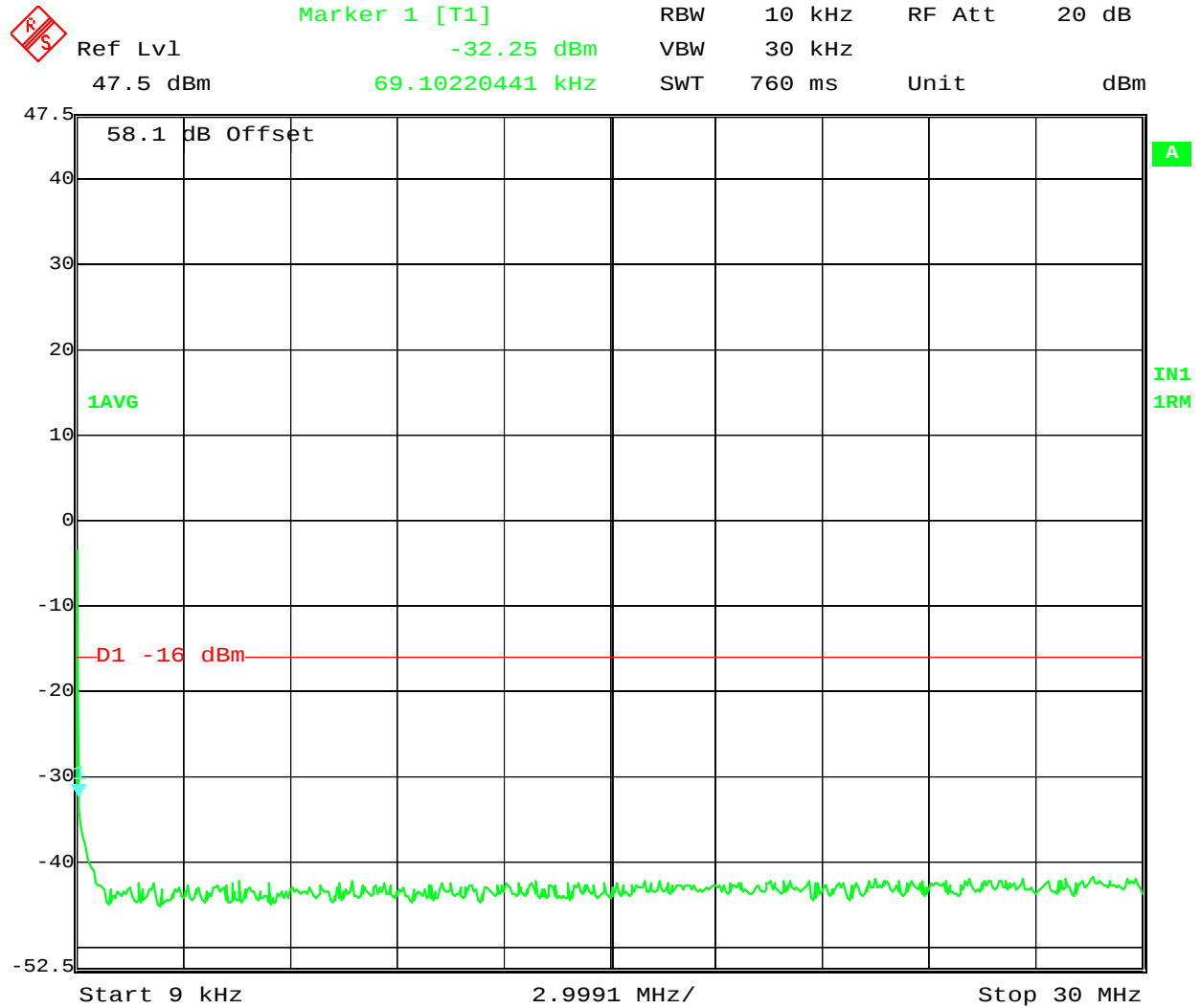
With HPF



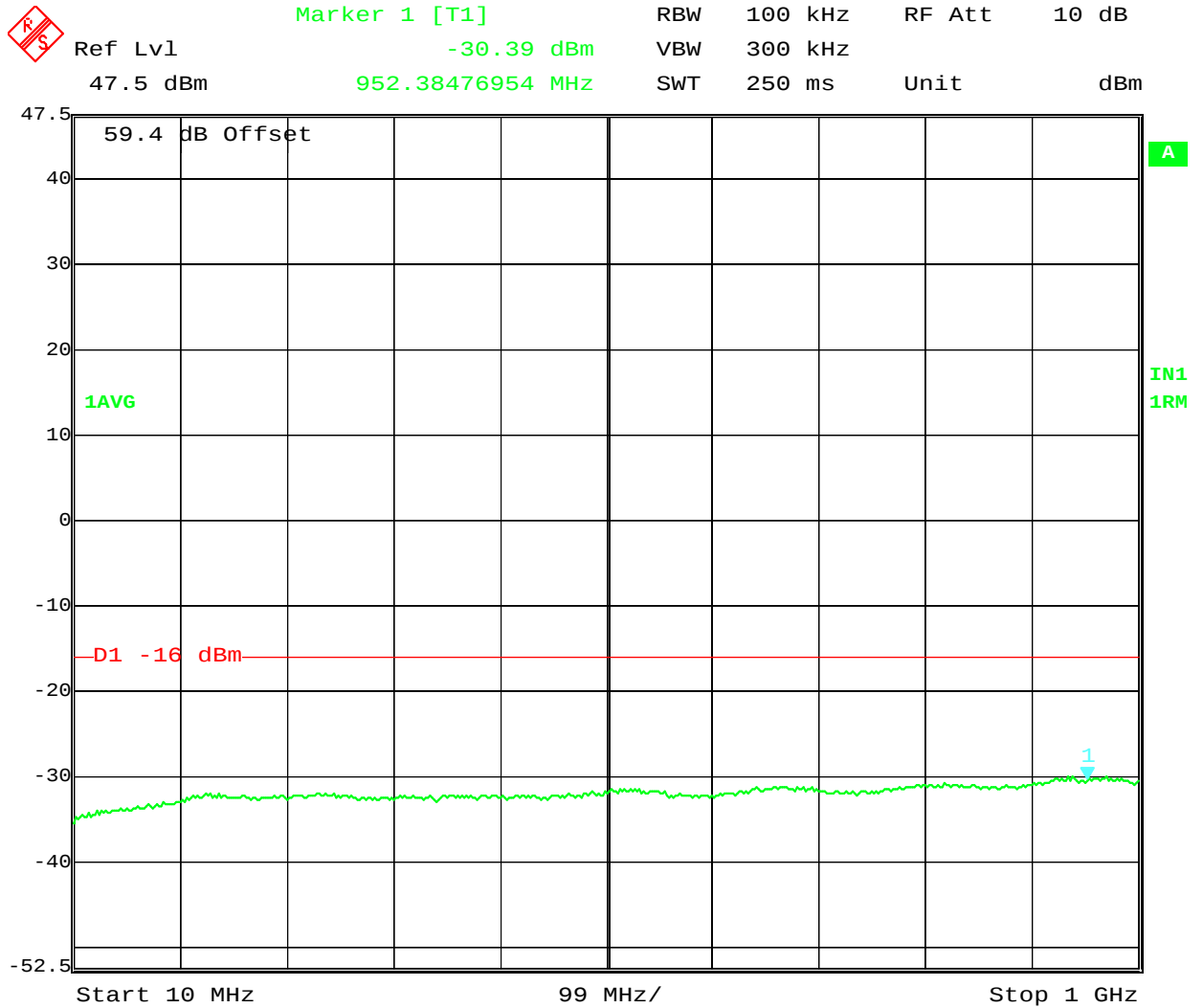
Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 16QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 22.AUG.2013 06:46:23

**Transmit Port
Antenna Conducted Spurious Emissions**

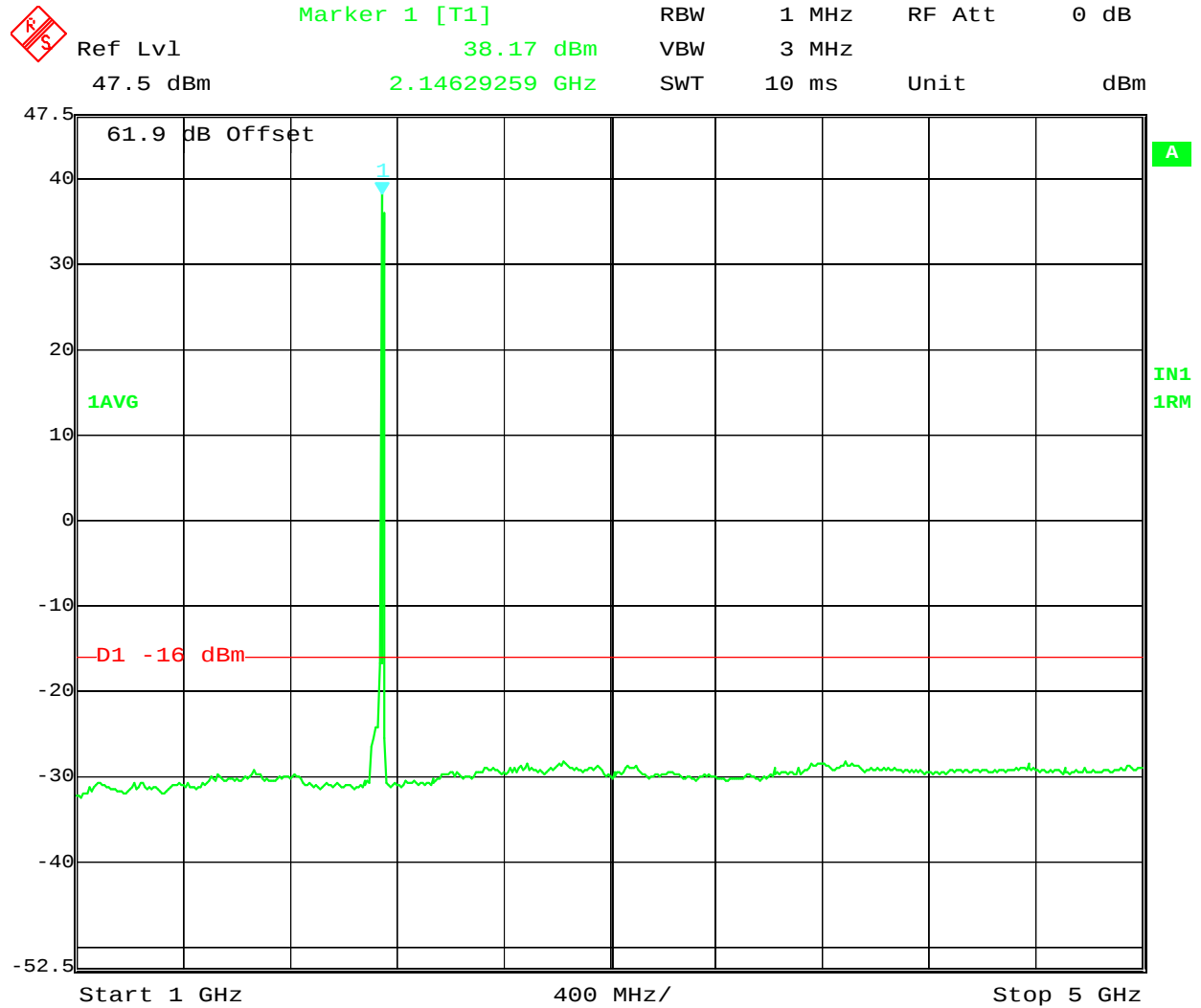
**Block: F
10 MHz Bandwidth (2145-2155 MHz)
2x60watts (MIMO)
64QAM Modulation**



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 11:52:01



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 12:33:58



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY
 Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 64QAM
 FCC PRT 27; FCCID:AS5BBTRX-13
 Date: 21.AUG.2013 11:53:55

With HPF



Ref Lvl

47.5 dBm

Marker 1 [T1]

-24.13 dBm

RBW

1 MHz

RF Att

10 dB

VBW

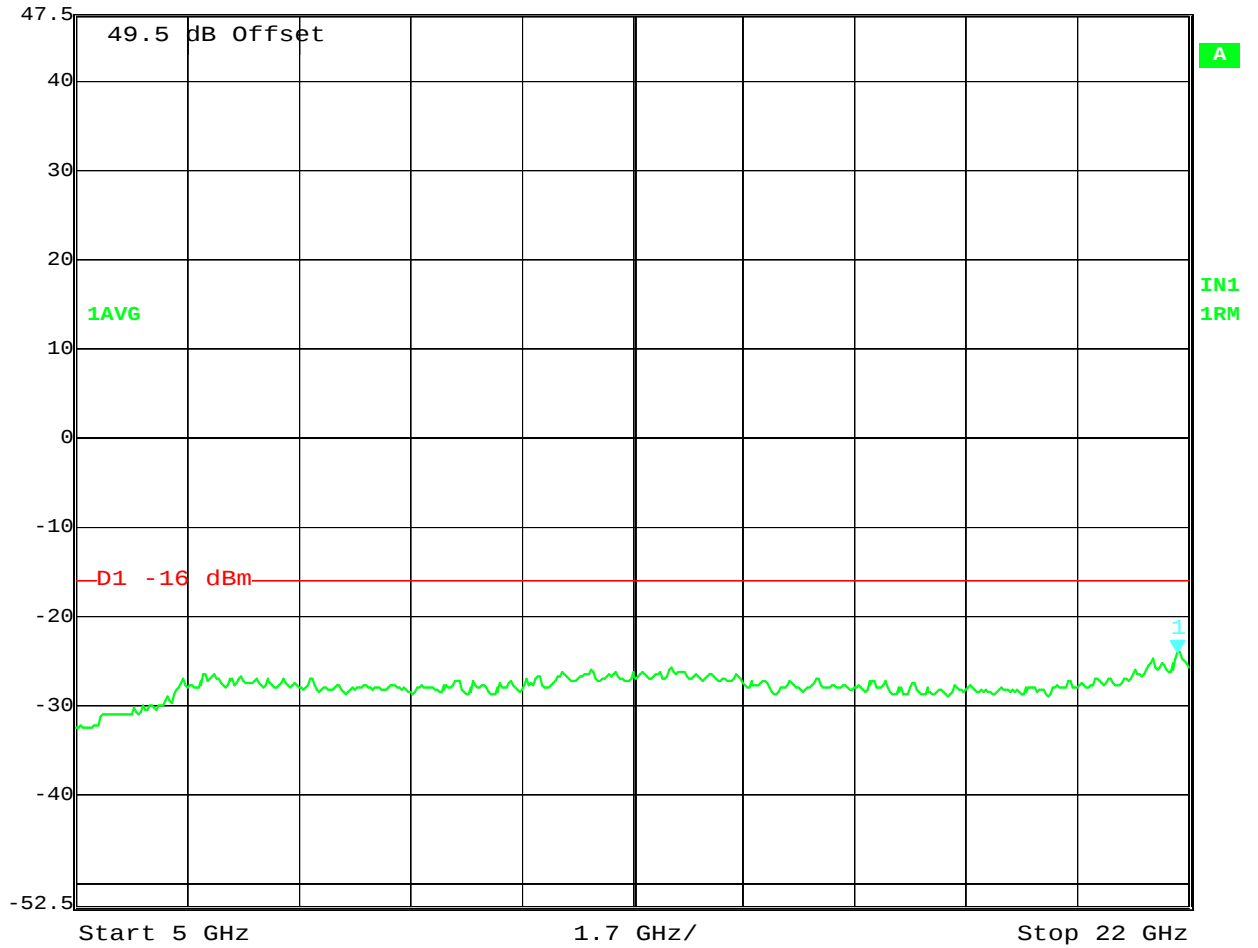
3 MHz

SWT

170 ms

Unit

dBm



Title: Spurious Emission; TRDU2X60-AWS Light Radio; ENG: JY

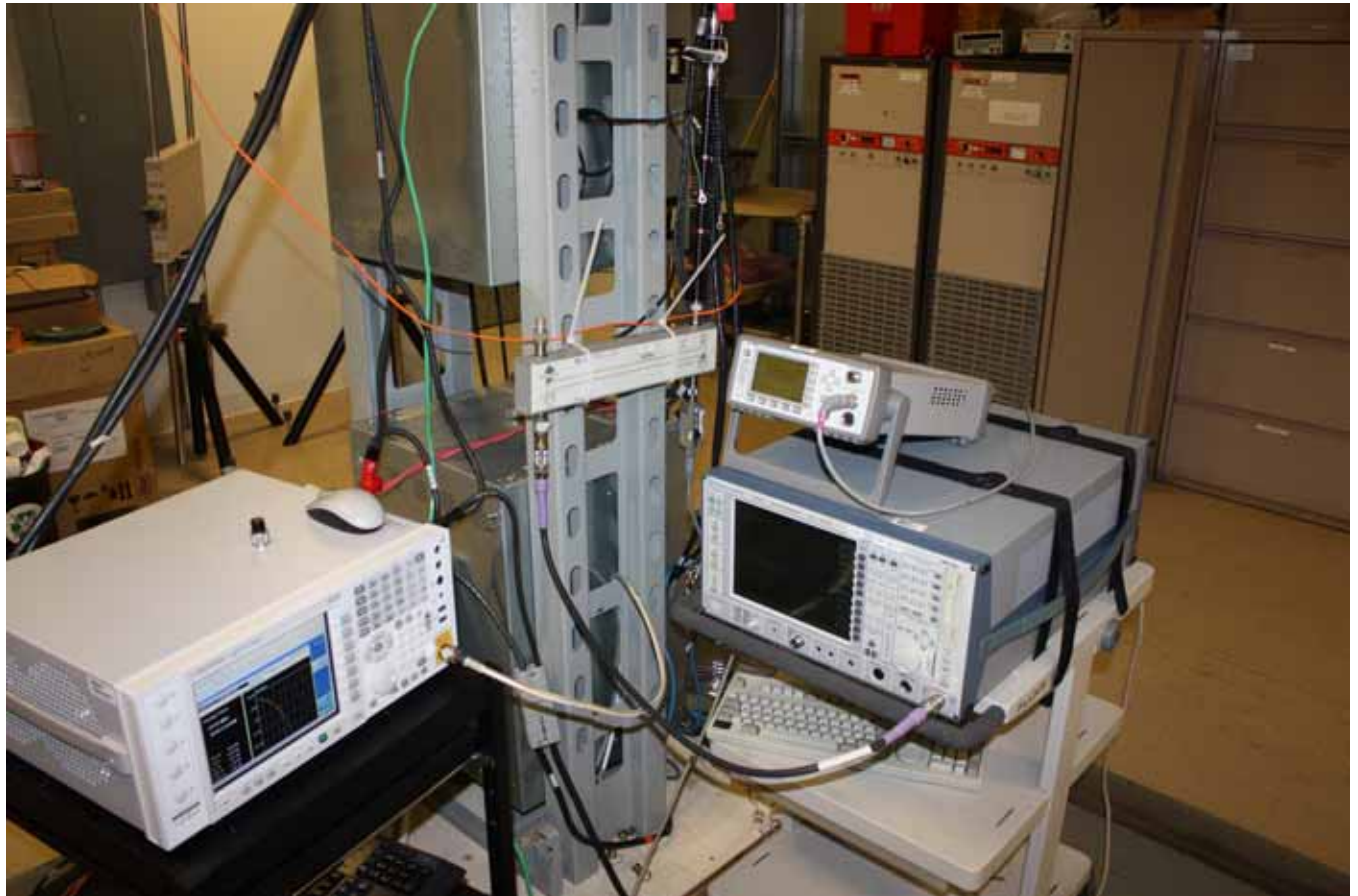
Comment A: -48VDC; 1C; BLK F; 2150MHz; 10MHz BW; PWR:60W; 64QAM

FCC PRT 27; FCCID:AS5BBTRX-13

Date: 21.AUG.2013 11:56:39

Test Instrumentation List**Test Equipment List**

Manufacturer	Model	Serial #	Description	Manual #	Last Cal Date	Cal Cycle Month
Rohde & Schwarz	ESIB40	100121	EMI Test Receiver (20Hz to 40 GHz)-150 +30dBm	E704	3/7/2013	12
Hewlett Packard	438A	3513U04024	RF Power Meter	E877	9/24/2012	12
Hewlett Packard	8481A	US37290001	Power Sensor 10 MHz - 18 GHz	E267	3/27/2012	12
Hewlett Packard	8481A	3318A90195	Power Sensor .10 MHz-18 GHz	E752	7/26/2012	15
Tailithic Inc	5HC2850/21600-1.8-LK	200802154	High Pass Filter	E1137		0
Weinschel	66-20-34	BW7320	Attenuator 20dB 150W DC-18 GHz	E815	3/27/2013	12
Weinschel	46-20-34	BX2063	Attenuator 20dB 25W DC-18GHz	E795	5/17/2013	24
Weinschel	66-20-34	BW7319	Attenuator 20dB 150W DC-18 GHz	E816	9/27/2012	12
Hewlett Packard	772D	2839A01006	Dual Directional Coupler 2-18 GHz	E371		12





Measurement -5

FIELD STRENGTH OF SPURIOUS RADIATION **SECTION 2.1053 and 27.53 (g)**

LTE TRDU2X120-AWS**SECTION 2.1053****FIELD STRENGTH OF SPURIOUS RADIATION**

Field strength measurements of radiated spurious emissions were made at 3 m semi anechoic room of Global Product Compliance Laboratory of Alcatel-Lucent Murray Hill. A complete description and full measurement data for the site is on file with the Commission (FCC File 515091).

The “**LTE TRDU2X120-AWS** with FCCID: AS5BBTRX-13” was tested at a RF output of **120 W at Antenna Interface Connector (AIC)**. These tests were performed in LTE 9712 cabinet with (6) **LTE TRDU2X120-AWS** and Six D2UV5 Base band units (BBU). Each TRDU is designed to provide 60 Watts per LTE Carriers and 120W two carriers/port. The interconnection between the TRDU and D2U was through optical fiber. The radiated emissions tests were performed with the TRDUs were operating bandwidths in the frequency blocks combinations listed for Antenna Conducted spurious emissions. All tests were performed with the TRDU operating in QPSK, and 64QAM modulations simultaneously. During testing, the TRDU AIC were terminated with 50 ohm load. The spectrum from 10 MHz to the 10th harmonic (22 GHz) of the carrier was searched for spurious radiation. Measurements were made according to ANSI C63.4. All emissions more than 20 dB below the specification limit were considered not reportable (Section 2.1057(c)).

All emissions more than 20 dB below the specification limit were considered not reportable (Section 2.1057(c)).

The calculated emission levels were found by:

$$\text{Measured level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB)} = \text{Field Strength (dB}\mu\text{V/m)}$$

Section 27.53 and 2.1053 contains the requirements for the levels of spurious radiation as a function of frequency.

FCC Section 27.53(h): the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB or -13dBm. Pursuant to FCC OET RULES 662911 D01 and D02 for two antenna MIMO mode of operations, the FCC limit of -13dBm shall be 3dB more stringent, therefore all channel edge and out of band spurious emissions shall be -16dBm.

The reference level for the un-modulated carriers is calculated as the field produced by an ideal isotropic antenna excited by the transmitter output power according to the following relation taken from Recommendation ITU-R, SM.329-11, “*Unwanted emissions in the spurious domain*” January 2011.

$$E = [(30 \cdot P)^{1/2}] / R$$

$$20 \log(E \cdot 106) - (46 + 10 \log P) = 79.2 \text{ dB } \mu\text{V/meter}$$

E = Field Intensity in Volts/meter

P = Transmitted Power in Watts

R = Distance from the ideal isotropic antenna in meters = 3 m

RESULTS:

For this particular test, the field strength of any spurious radiation is required to be less than 79.2dB μ V/meter. Reportable measurements are equal to or greater than 59.2dB μ V/meter. Over the spectrum investigated, 10 MHz to 10th of the carrier (8 GHz), no reportable spurious emissions were detected. This demonstrates that the **“LTE TRDU2X120-AWS”** the subject of this application, complies with Sections 2.1053, 27.53 (h) and 2.1057 of the Rules.

Measurement -6

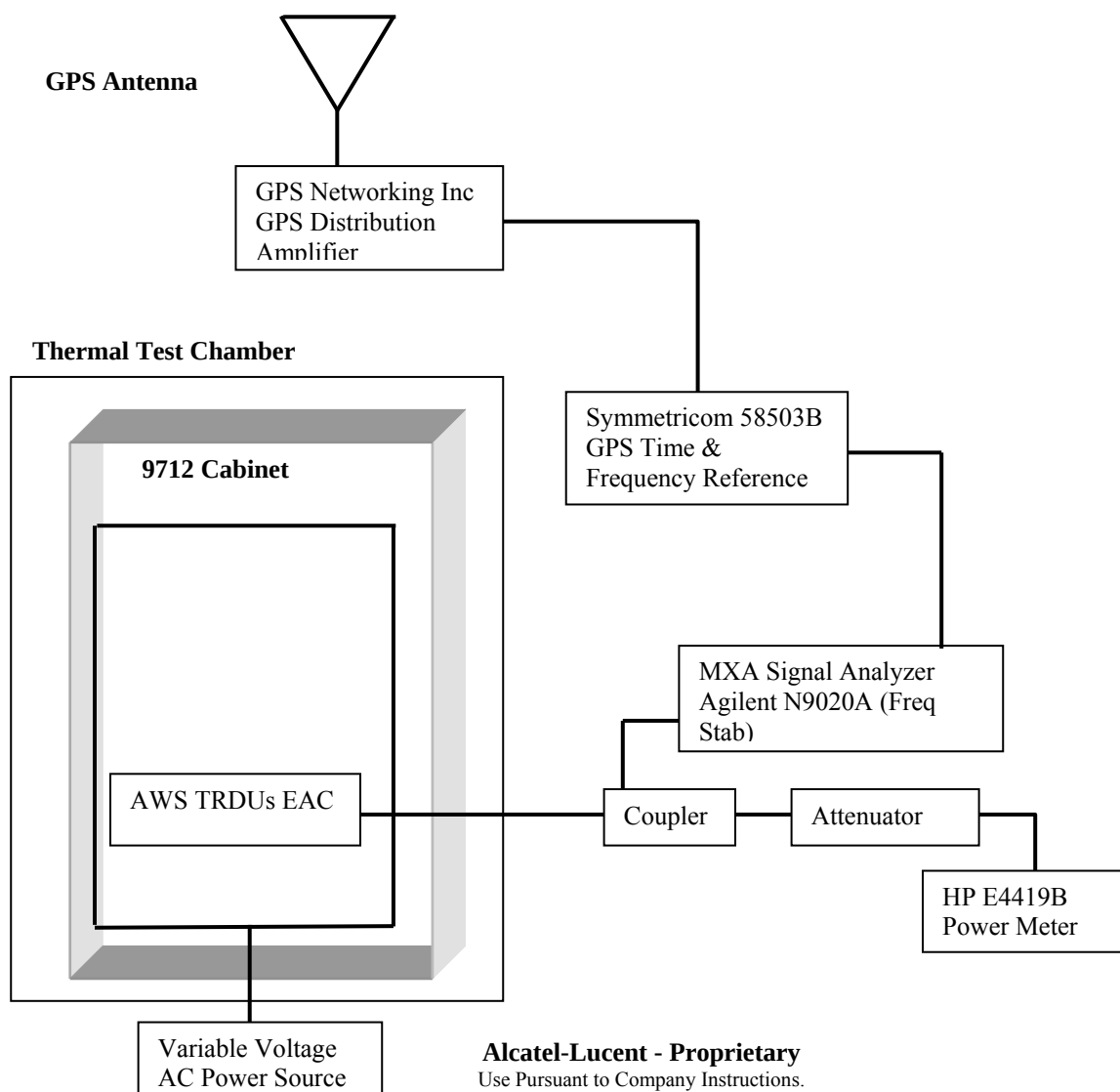
MEASUREMENT OF FREQUENCY STABILITY

MEASUREMENT OF FREQUENCY STABILITY

The frequency stabilization and accuracy of the LTE signals modulated and amplified by the **LTE TRDU 2x120-AWS** is a function of the input signal which is derived from GPS signals. The system provide for automatic timing synchronization upon reacquisition of GPS lock.

The 9712 Cabinet was subjected to the FCC specified environments while operating at full rated power of 2x120W at External Antenna Connector (EAC) port. The TRDU input is -48V. However, the LTE 9712 cabinet in which TRDUs installed operate is powered with 208V (nominal). The 9712 Cabinet is designed to operate in the Voltage range of 208V in the temperature range of -30C to 50C. The carrier frequency is designed to be within an accuracy of 106.6Hz (.05ppm) in the temperature range -30C to 50C. The frequency stability tests were for the voltage 176.5 to 240V 60Hz range and for the temperature -30C to 50C range. The measurement setup is depicted in Block diagram A.

FIGURE A: TEST SET-UP



Frequency Stability performance was verified by measuring Frequency Tolerance at EAC using an MXA Signal Analyzer. Frequency Tolerance is a measurement of the difference between the actual transmit frequency and the assigned frequency (2132.50MHz).

Frequency Block Tested: 208VAC LightRadio Config3 (9712) OD with AWS TRDU (CF = 2132.50MHz)

Baseline Measurement at +25°C

Transmit Frequency Deviation at +25°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.123
0.5	0.116
1.0	0.124
1.5	-0.111
2.0	0.167
2.5	0.139
3.0	0.109
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +50°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.103
0.5	-0.147
1.0	0.154
1.5	0.123
2.0	0.163
2.5	0.183
3.0	0.103
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +40°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.136
0.5	0.117
1.0	0.119
1.5	-0.176
2.0	0.187
2.5	0.159
3.0	0.122
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +30°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	-0.131
0.5	0.151
1.0	0.156
1.5	-0.069
2.0	-0.146
2.5	-0.153
3.0	-0.171
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +20°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	-0.163
0.5	0.136
1.0	0.175
1.5	0.122
2.0	0.189
2.5	0.187
3.0	0.113
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +10°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.127
0.5	0.173
1.0	0.163
1.5	0.105
2.0	-0.118
2.5	0.126
3.0	-0.082
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at 0°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.176
0.5	0.124
1.0	0.141
1.5	-0.160
2.0	0.158
2.5	0.121
3.0	0.101
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at -10°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.133
0.5	0.107
1.0	0.153
1.5	0.117
2.0	0.114
2.5	0.167
3.0	0.196
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at -20°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	-0.186
0.5	-0.149
1.0	-0.128
1.5	0.138
2.0	-0.150
2.5	0.116
3.0	0.119
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at -30°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.144
0.5	0.188
1.0	0.138
1.5	0.125
2.0	0.161
2.5	0.120
3.0	0.127
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Upon return to +25°C.

Transmit Frequency Deviation at +25°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.109
0.5	0.164
1.0	0.143
1.5	0.141
2.0	0.196
2.5	0.106
3.0	0.180
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at +3% of Nominal Voltage, 214.29VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.134
0.5	0.112
1.0	0.141
1.5	0.104
2.0	0.191
2.5	0.104
3.0	0.126
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at +6% of Nominal Voltage, 220.50VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.139
0.5	0.169
1.0	0.196
1.5	0.138
2.0	0.118
2.5	-0.149
3.0	-0.112
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at +9% of Nominal Voltage, 227.72VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	-0.111
0.5	0.121
1.0	0.184
1.5	0.169
2.0	-0.192
2.5	-0.162
3.0	0.171
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at +12% of Nominal Voltage, 233.0VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.166
0.5	0.158
1.0	0.108
1.5	0.157
2.0	-0.130
2.5	0.156
3.0	0.141
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at +15% of Nominal Voltage, 239.0VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.191
0.5	0.184
1.0	0.115
1.5	-0.121
2.0	0.128
2.5	0.136
3.0	0.157
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at 100% of Nominal Voltage, 208VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.141
0.5	-0.141
1.0	0.175
1.5	0.193
2.0	-0.165
2.5	0.146
3.0	-0.123
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at -3% of Nominal Voltage, 201.76VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.171
0.5	0.165
1.0	-0.192
1.5	-0.166
2.0	0.189
2.5	0.194
3.0	-0.155
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at -6% of Nominal Voltage, 195.5VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.109
0.5	0.149
1.0	0.114
1.5	-0.123
2.0	-0.126
2.5	0.128
3.0	0.169
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at -9% of Nominal Voltage, 189.0VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	0.188
0.5	-0.155
1.0	-0.180
1.5	0.174
2.0	-0.110
2.5	0.162
3.0	0.139
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at -12% of Nominal Voltage, 183VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	-0.172
0.5	0.152
1.0	-0.158
1.5	0.108
2.0	-0.112
2.5	0.123
3.0	-0.108
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Transmit Frequency Deviation at +25°C at -15% of Nominal Voltage, 176.5VAC	
Time (minutes)	Transmit Carrier Deviation (Hz)
0	-0.161
0.5	0.147
1.0	0.181
1.5	-0.119
2.0	-0.109
2.5	0.183
3.0	-0.149
FCC SPECIFICATION	±2132.50 MHz (±0.05ppm) ±0.05ppm = ±106.6Hz
FCC RESULT	PASS

Instrument Used for Measurement

Instrument Type	Serial Number	Vendor	Expiration Date
MXA Signal Analyzer	MY49060086	Agilent N9020A	10/10/2014
Power Meter	MY40511034	HP E4419B	10/18/2013
Power Sensor	MY52280005	AGILENT	11/3/2013
Multimeter	JP35001820	HP 971A	2/28/2014
Power supply	N/A	STACO ENERGY PRODUCTS: MODEL NO 6020EY	N/A

**FREQUENCY SPECTRUM TO BE INVESTIGATED
SECTION 2.1057**

SECTION 2.1057

FREQUENCY SPECTRUM TO BE INVESTIGATED

Frequency Spectrum to be investigated, Measurement Bandwidth and detector function used meet or exceed the Specification contained in Section 2.1057, 27, and 3GPP TS36.104 V8.4.0 (2008-12)

Measurement Instrumentation and Antennas

All instrumentations, antennas and test Chamber used for the purpose of tests contained in the report were in calibration and calibrations are traceable to NIST