



EXHIBIT 2A

**CE Test Report#1 (pg99-188) Provided by
Nortel Networks**

Applicant: Nortel Networks

**For Class II Permissive Change
Certification on:**

**FCC ID: AB6NT800MFRM
IC ID: 332292158**

7 Appendix C - Three Carriers IS-95 Spurious Emission

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Occupied Bandwidth Ch 1015, 33, 74 A"

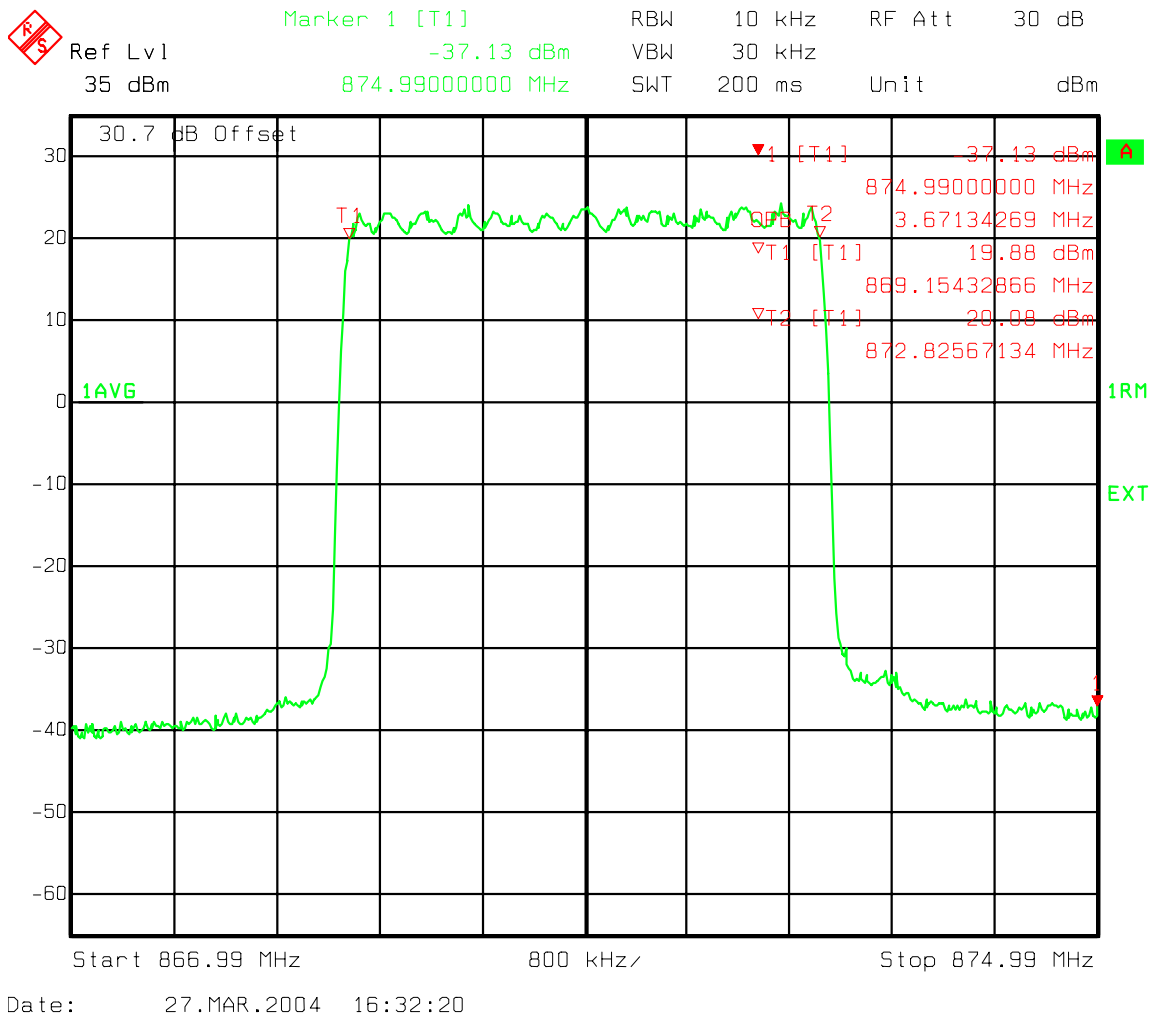


Figure 50 : Three Carriers - Occupied Bandwidth Ch 1015, 33, 74 A"

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" Band Ch 1015, 33, 74 IS95 Adjacent 1MHz Lower emissions 868-869MHz

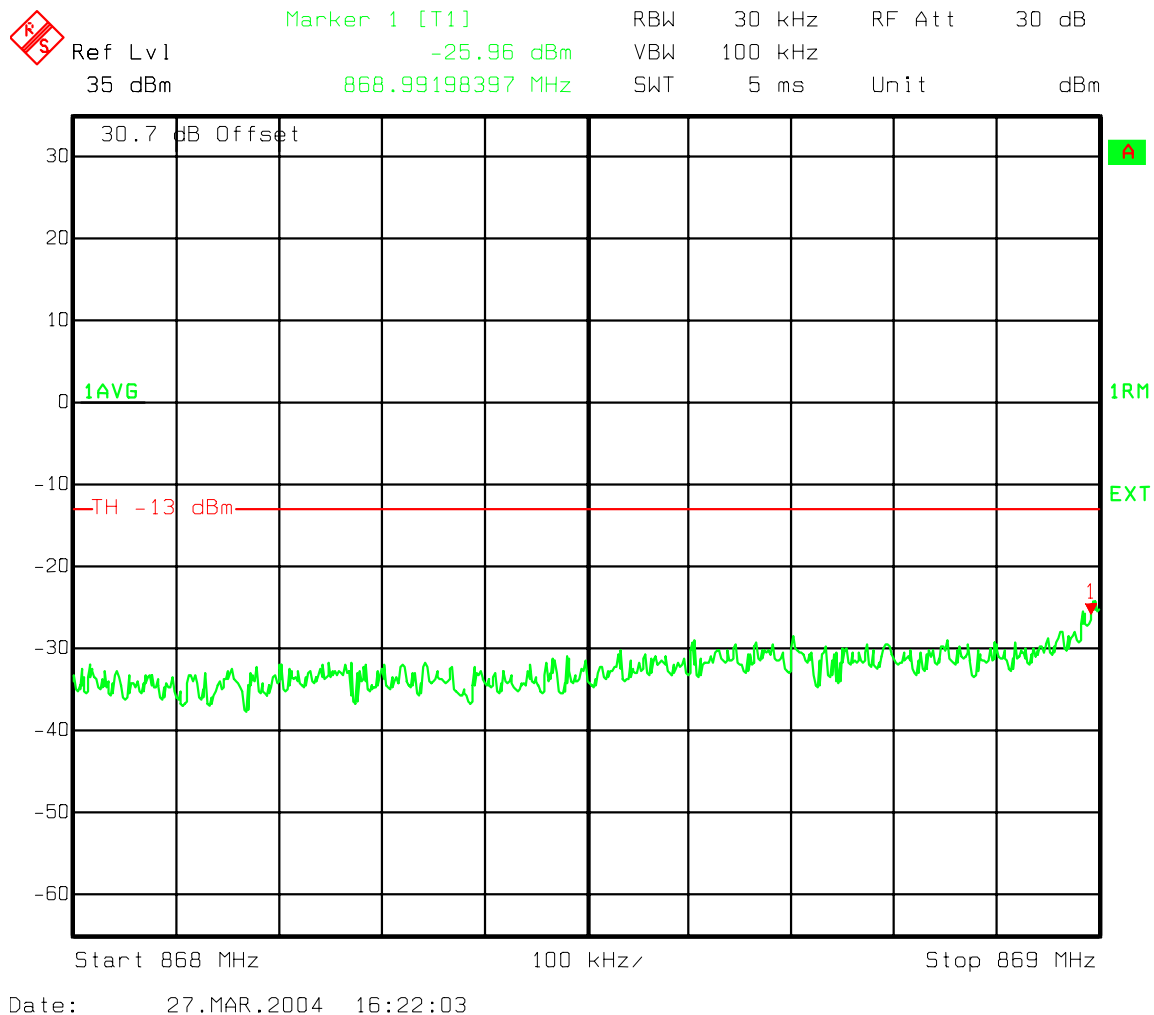


Figure 51 : Three Carriers - A" Band Ch 1015, 33, 74 IS95 Adjacent 1MHz Lower emissions 868-869MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Ch 1015, 33, 74 IS95 Lower A" Band Adjacent to outside edge 37.5kHz band Channel Power

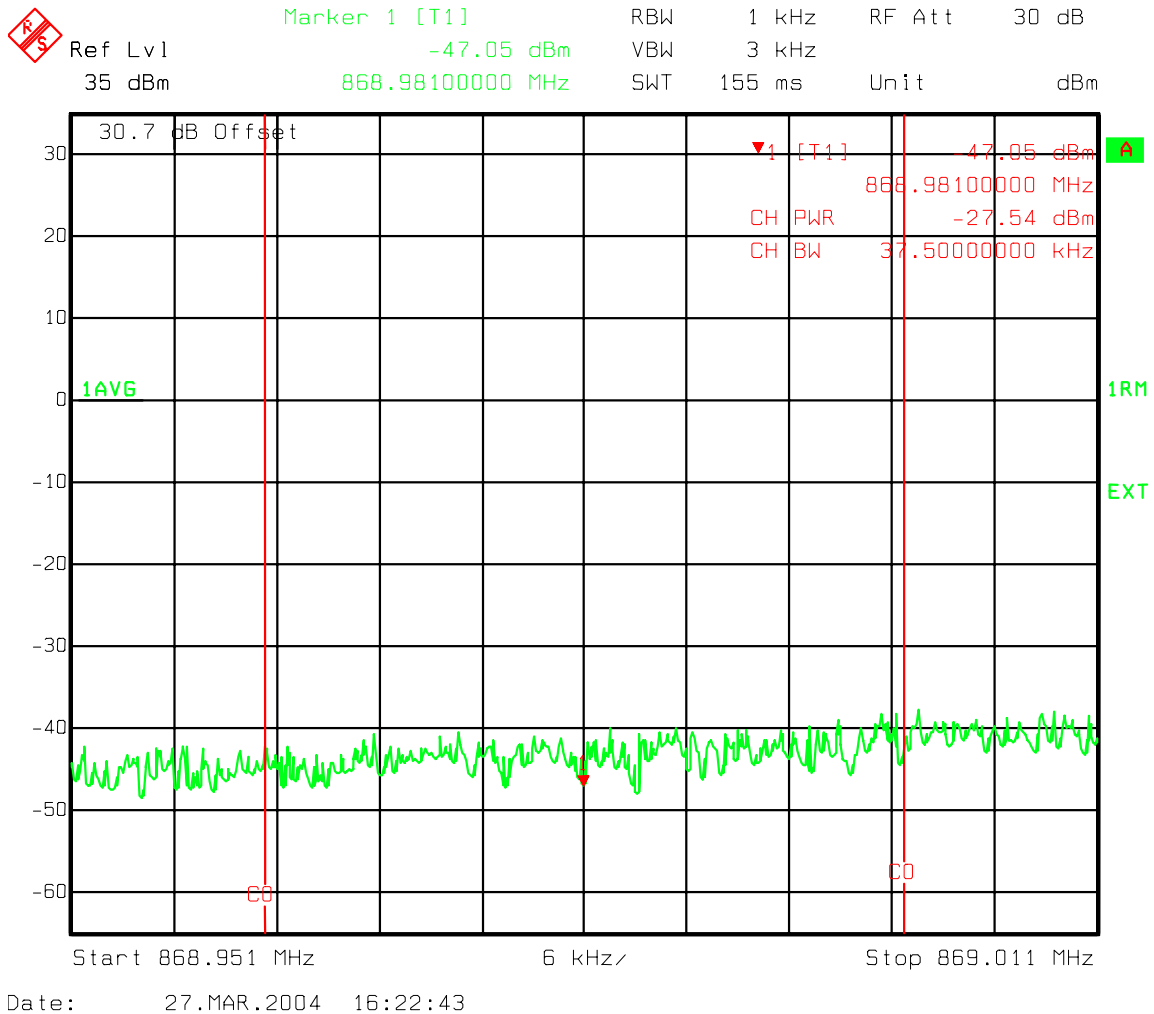
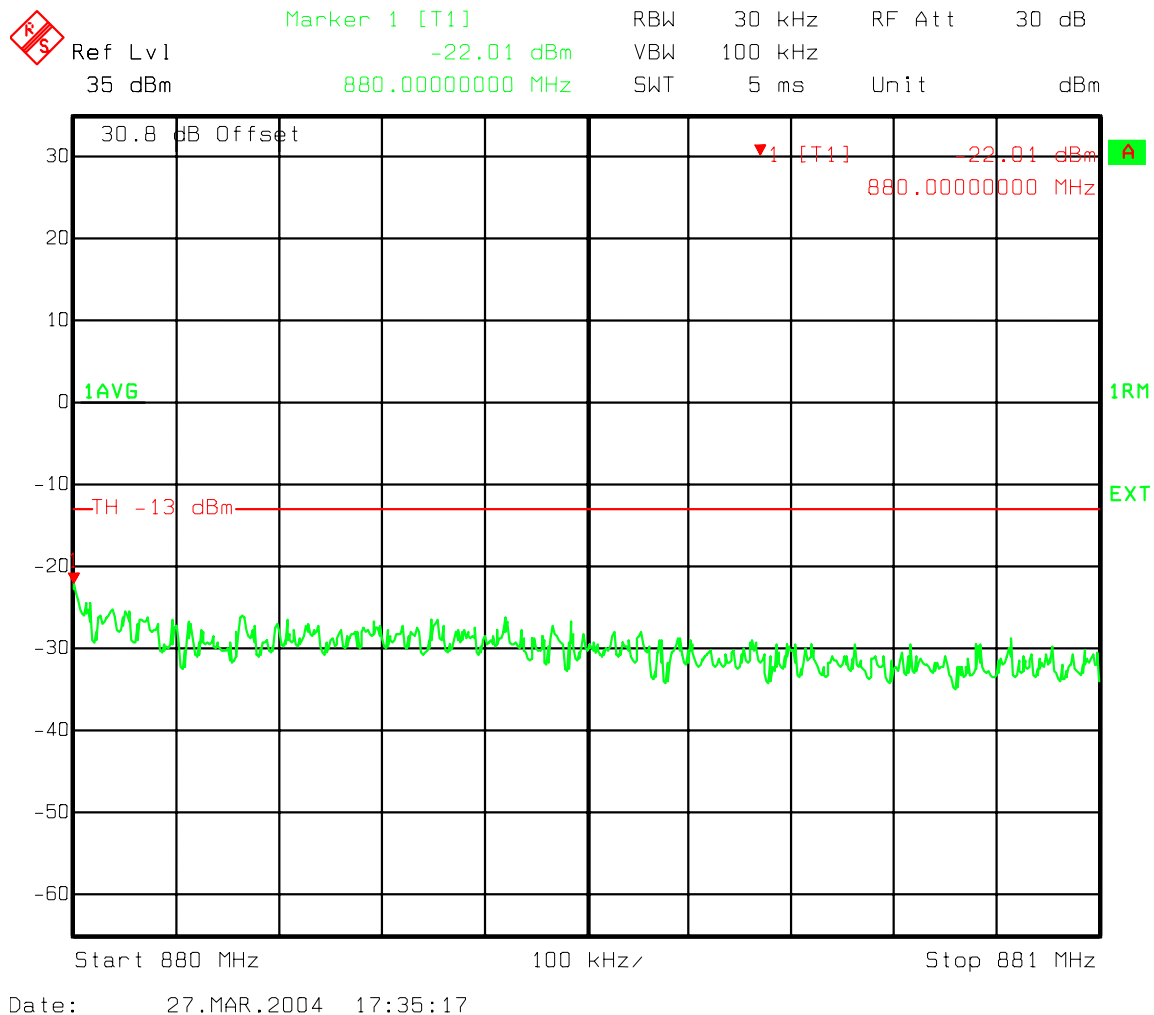


Figure 52 : Three Carriers - Ch 1015, 33, 74 IS95 Lower A" Band Adjacent to outside edge 37.5kHz band Channel Power

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95**Ch 226, 267, 308 Upper a Band adjacent 1 MHz band emissions 880-881 MHz****Figure 53 : Three Carriers - Ch 226, 267, 308 Upper a Band adjacent 1 MHz band emissions 880-881 MHz**

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Ch 226, 267, 308 Upper A Band adjacent to outside edge 37.5 kHz band Channel power

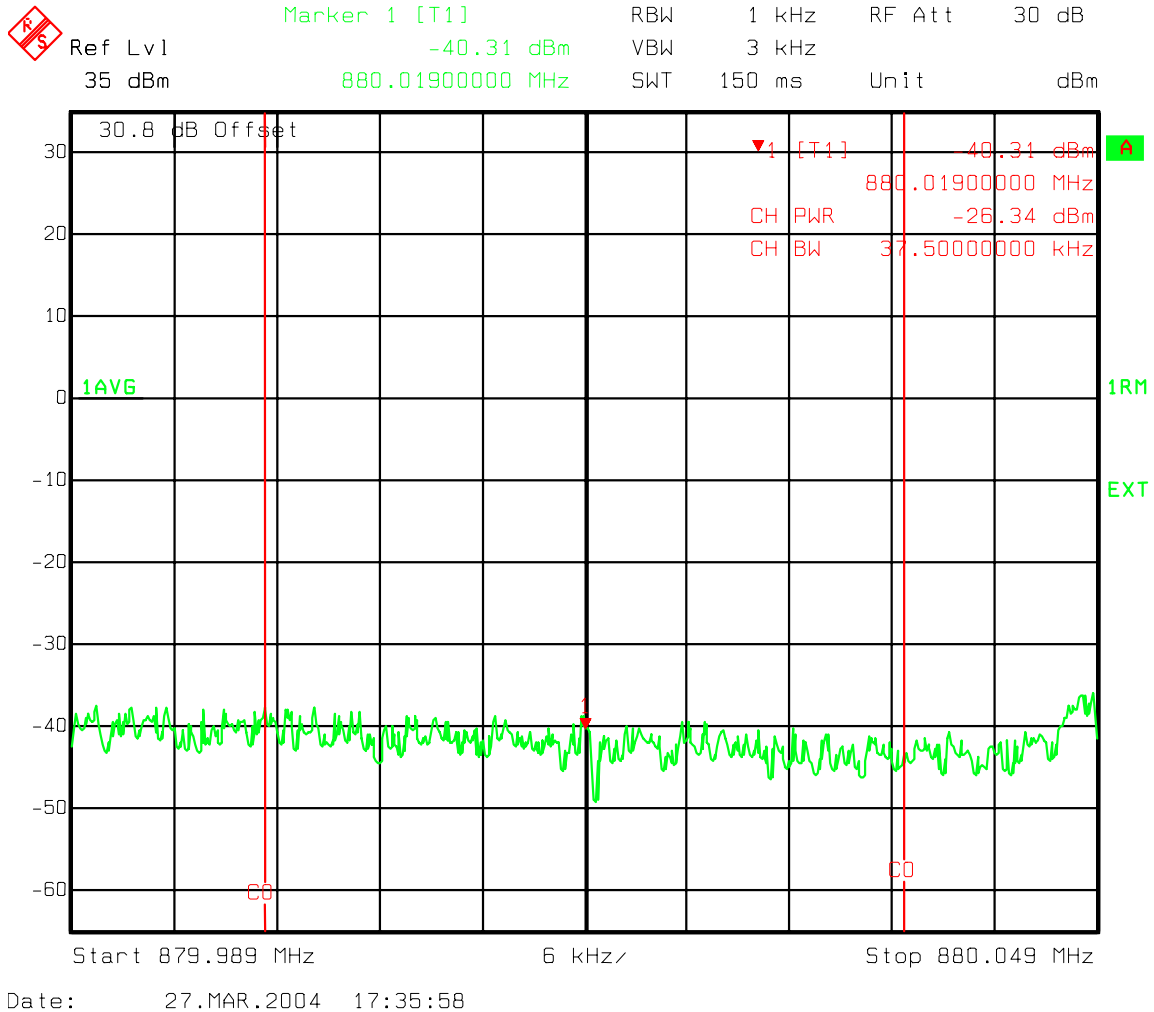


Figure 54 : Three Carriers - Ch 226, 267, 308 Upper A Band adjacent to outside edge 37.5 kHz band Channel power

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Industry Canada Lower 750 kHz offset 30 kHz Chan Power Ch 1015, 33, 74

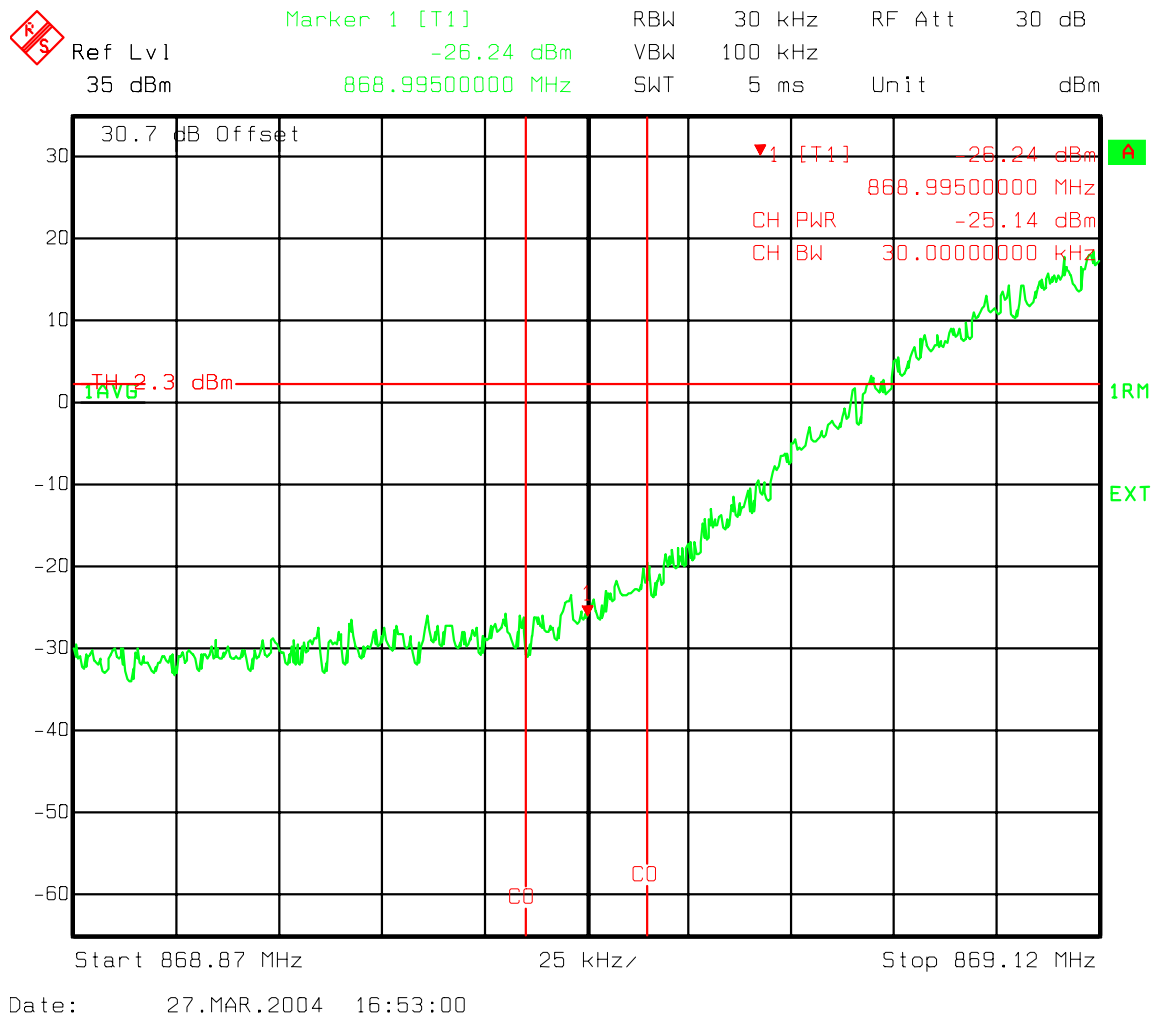


Figure 55 : Three Carriers - Industry Canada Lower 750 kHz offset 30 kHz Chan Power Ch 1015, 33, 74

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Industry Canada Upper 750 kHz offset 30 kHz Chan Power Ch 1015, 33, 74

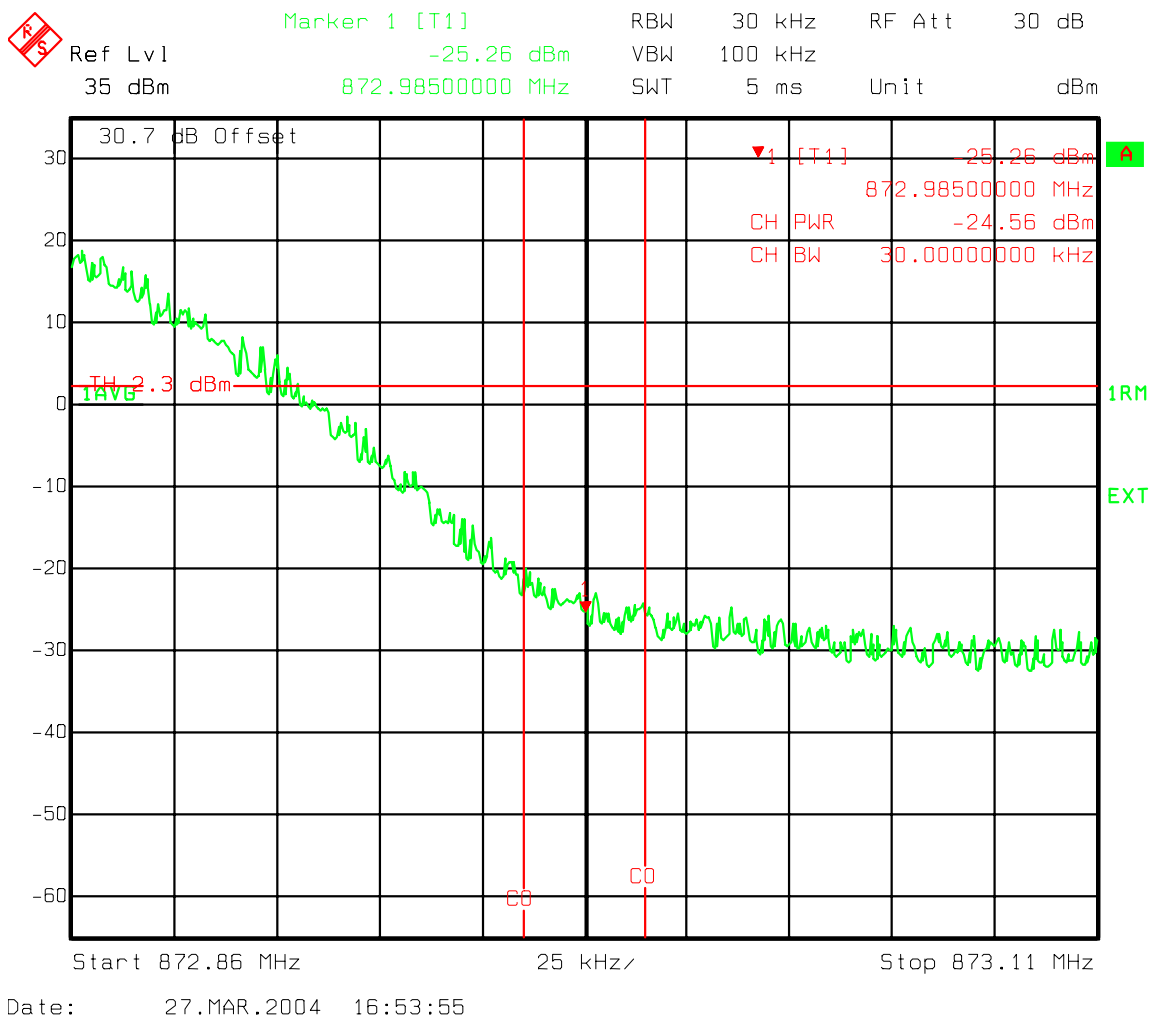
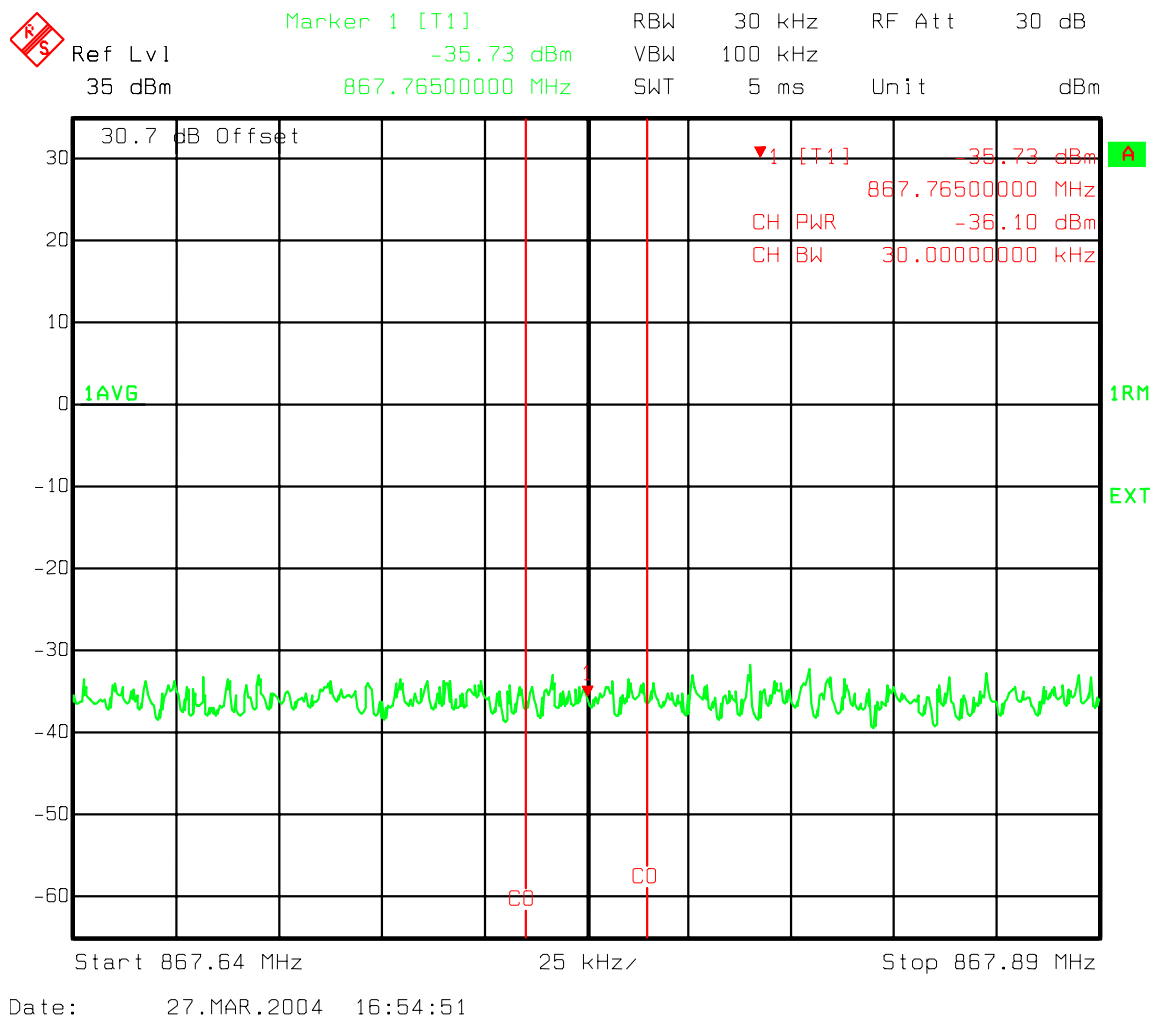


Figure 56 : Three Carriers - Industry Canada Upper 750 kHz offset 30 kHz Chan Power Ch 1015, 33, 74

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Industry Canada 1.98 MHz offset Lower 30 kHz Chan Power Ch 1015, 33, 74



**Figure 57 : Three Carriers - Industry Canada 1.98 MHz offset Lower 30 kHz Chan Power
Ch 1015, 33, 74**

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

Industry Canada 1.98 MHz offset Upper 30 kHz Chan Power Ch 1015, 33, 74

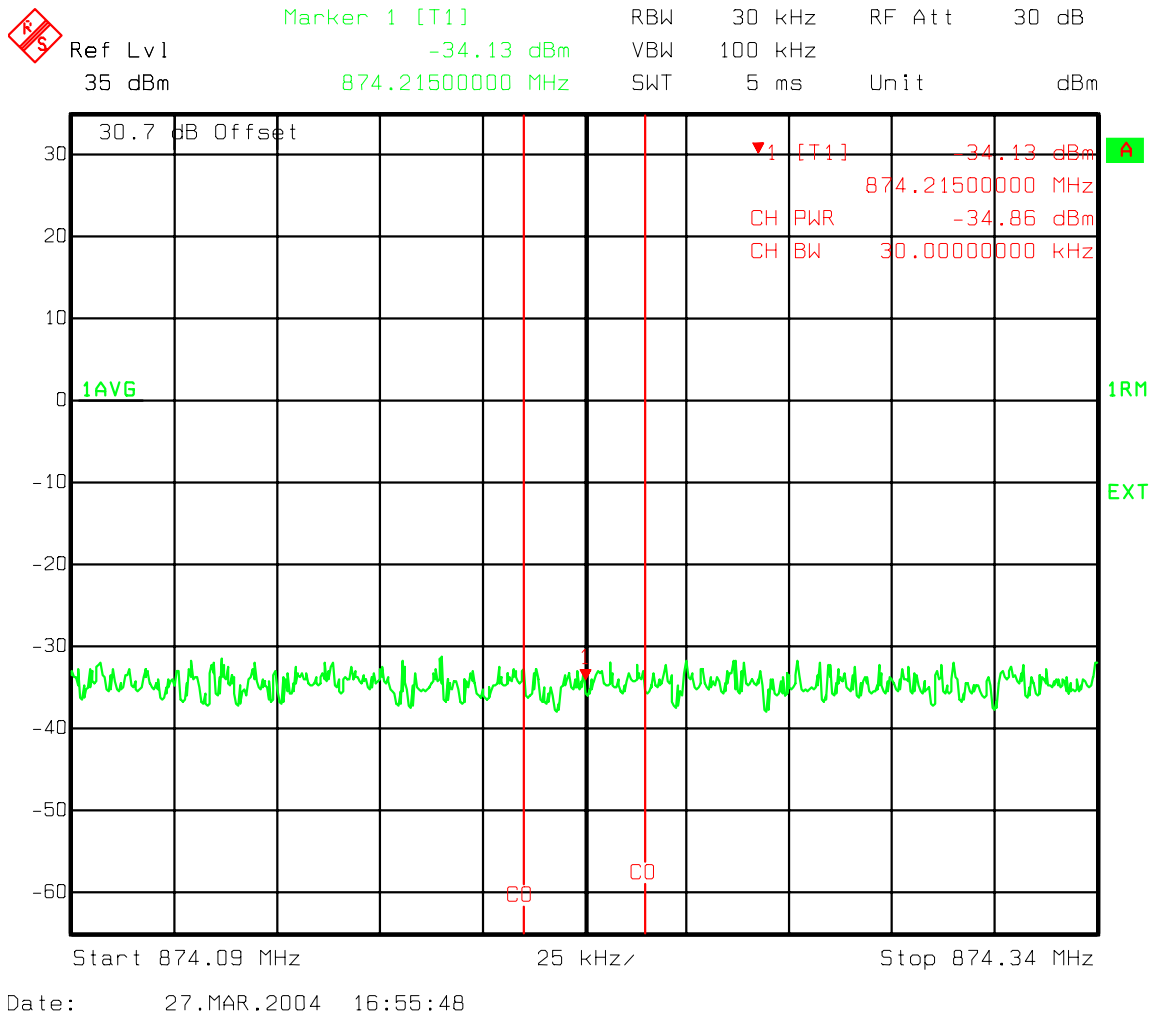
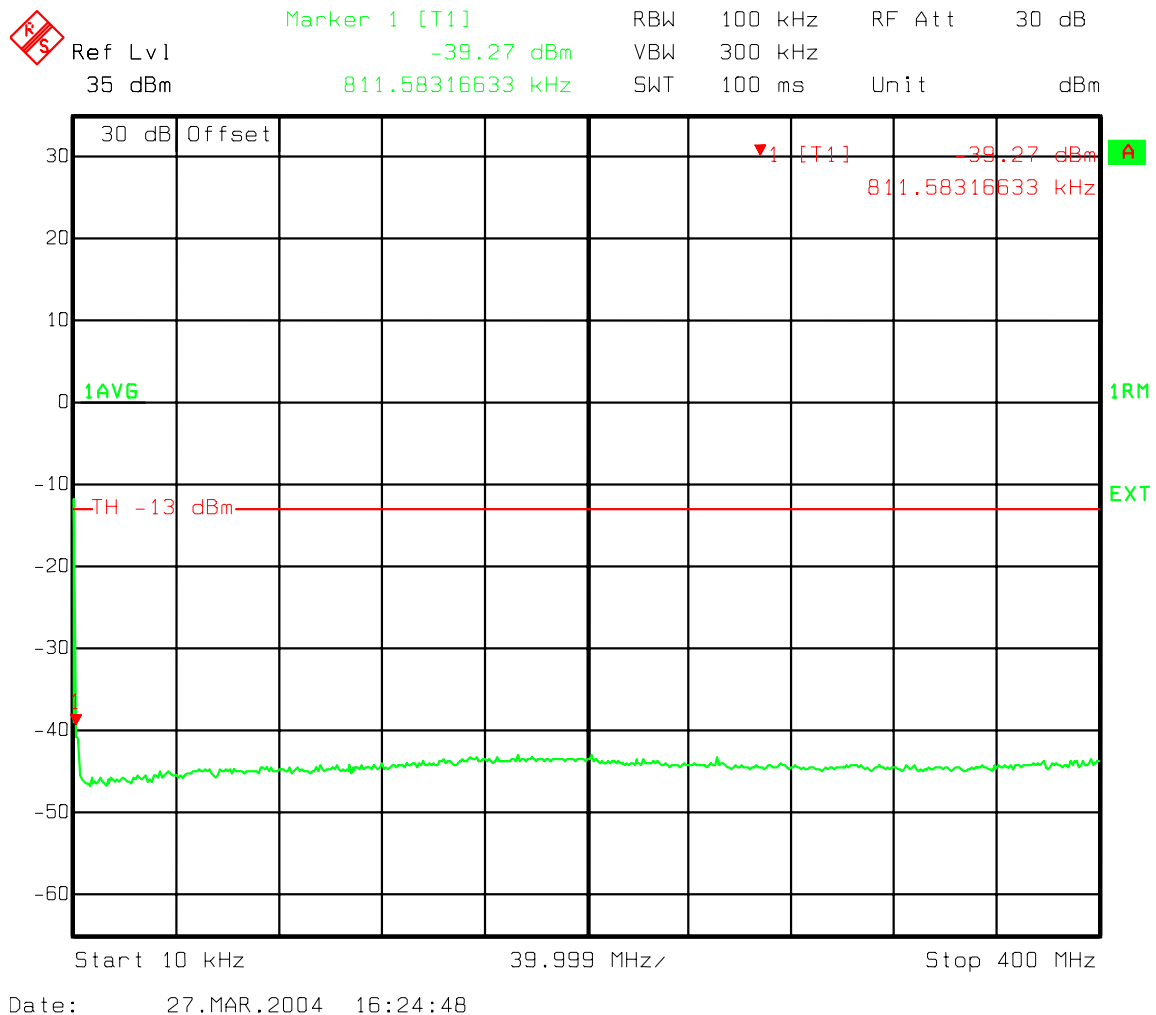


Figure 58 : Three Carriers - Industry Canada 1.98 MHz offset Upper 30 kHz Chan Power Ch 1015, 33, 74

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A'' IS95**A'' and A Band IS95 Spurious emissions 10kHz-400 MHz****Figure 59 : Three Carriers - A'' and A Band IS95 Spurious emissions 10kHz-400 MHz**

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A " and a Band IS95 Spurious emissions 400 MHz to Lower 1 MHz Band Edge

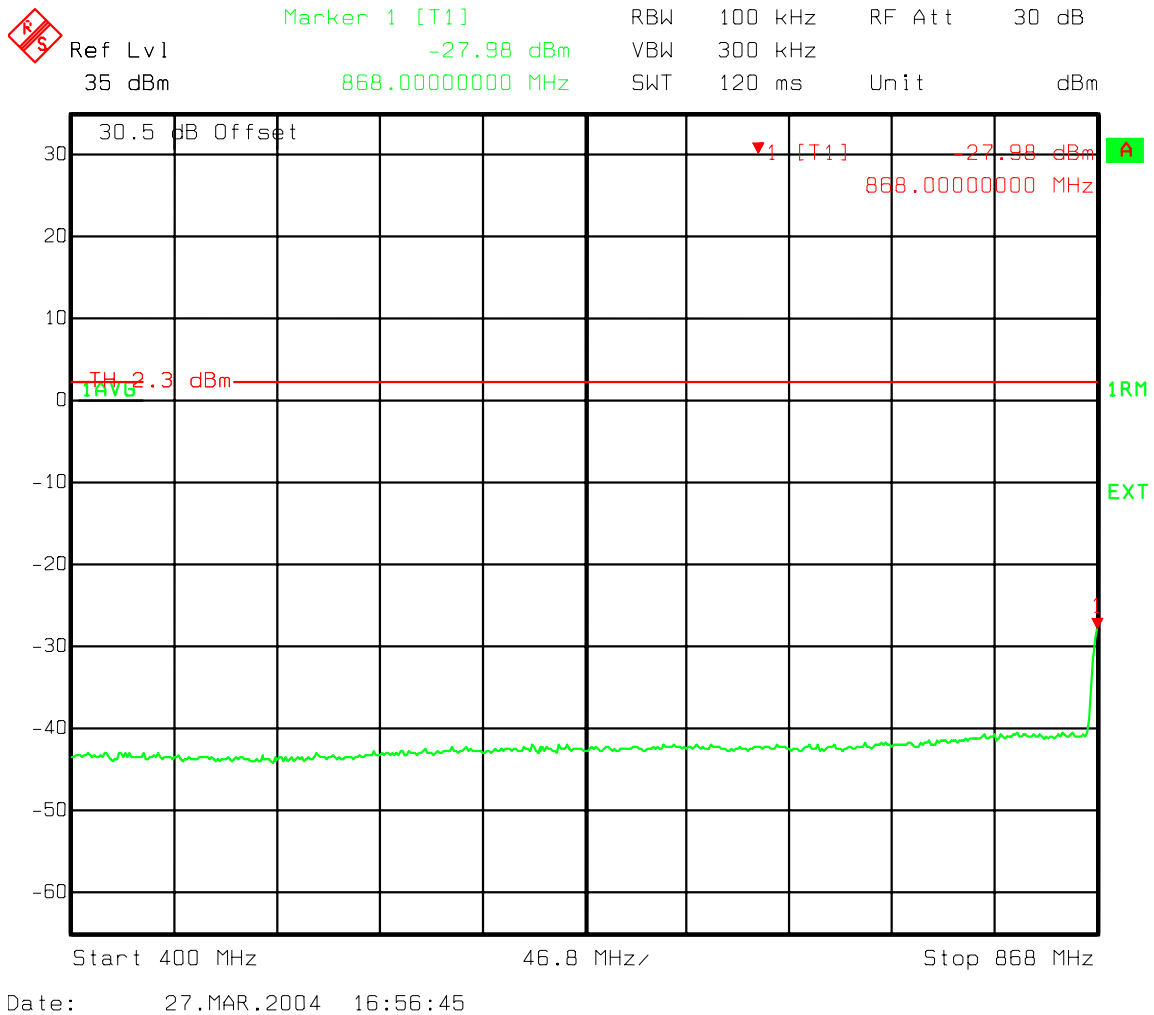


Figure 60 : Three Carriers - A " and A Band IS95 Spurious emissions 400 MHz to Lower 1 MHz Band Edge

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A " and a Band IS95 Spurious emissions Upper 1 MHz Band Edge to 1 GHz

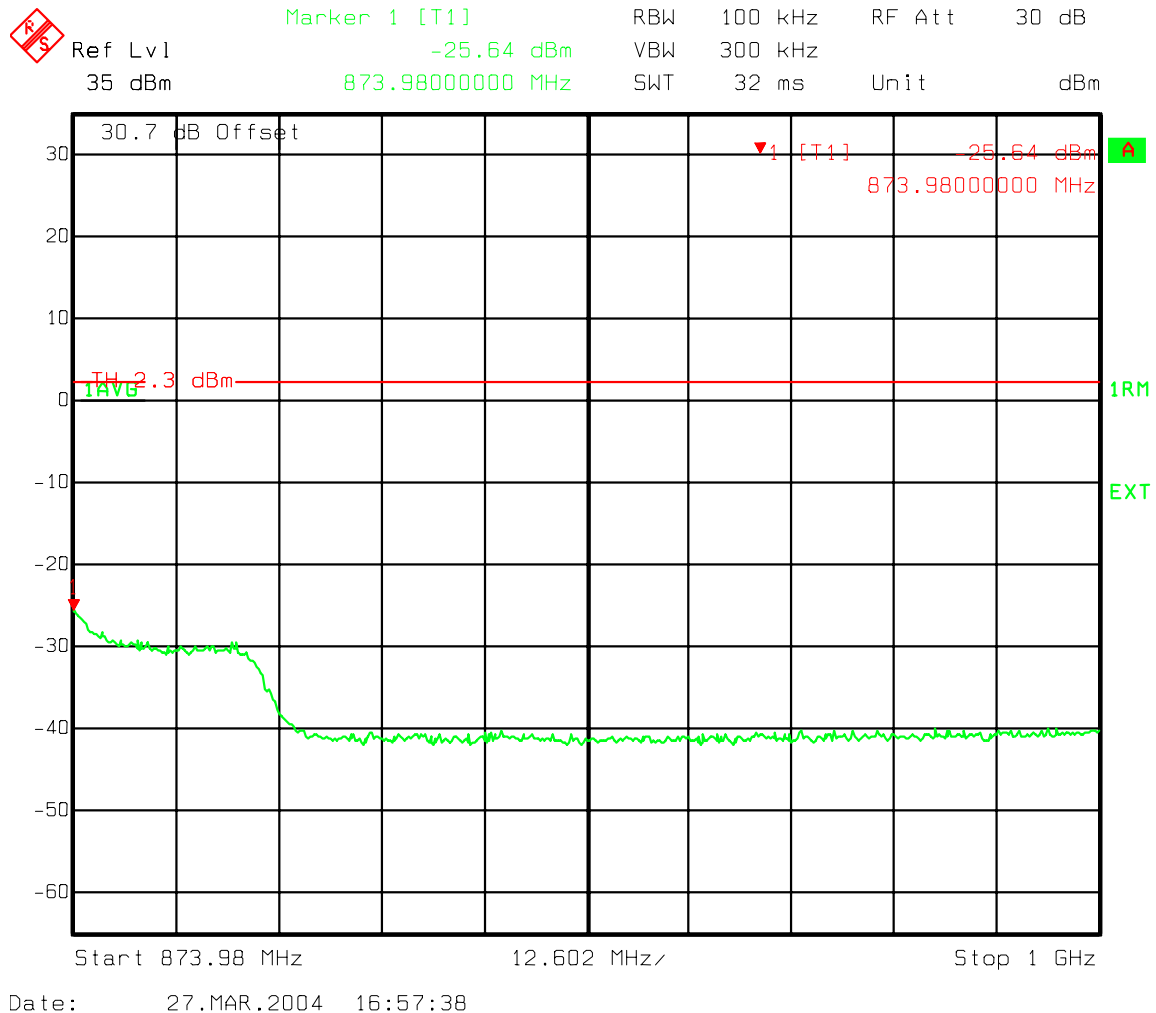


Figure 61 : Three Carriers - A " and a Band IS95 Spurious emissions Upper 1 MHz Band Edge to 1 GHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" and A Band IS95 Spurious emissions 400-1000 MHz

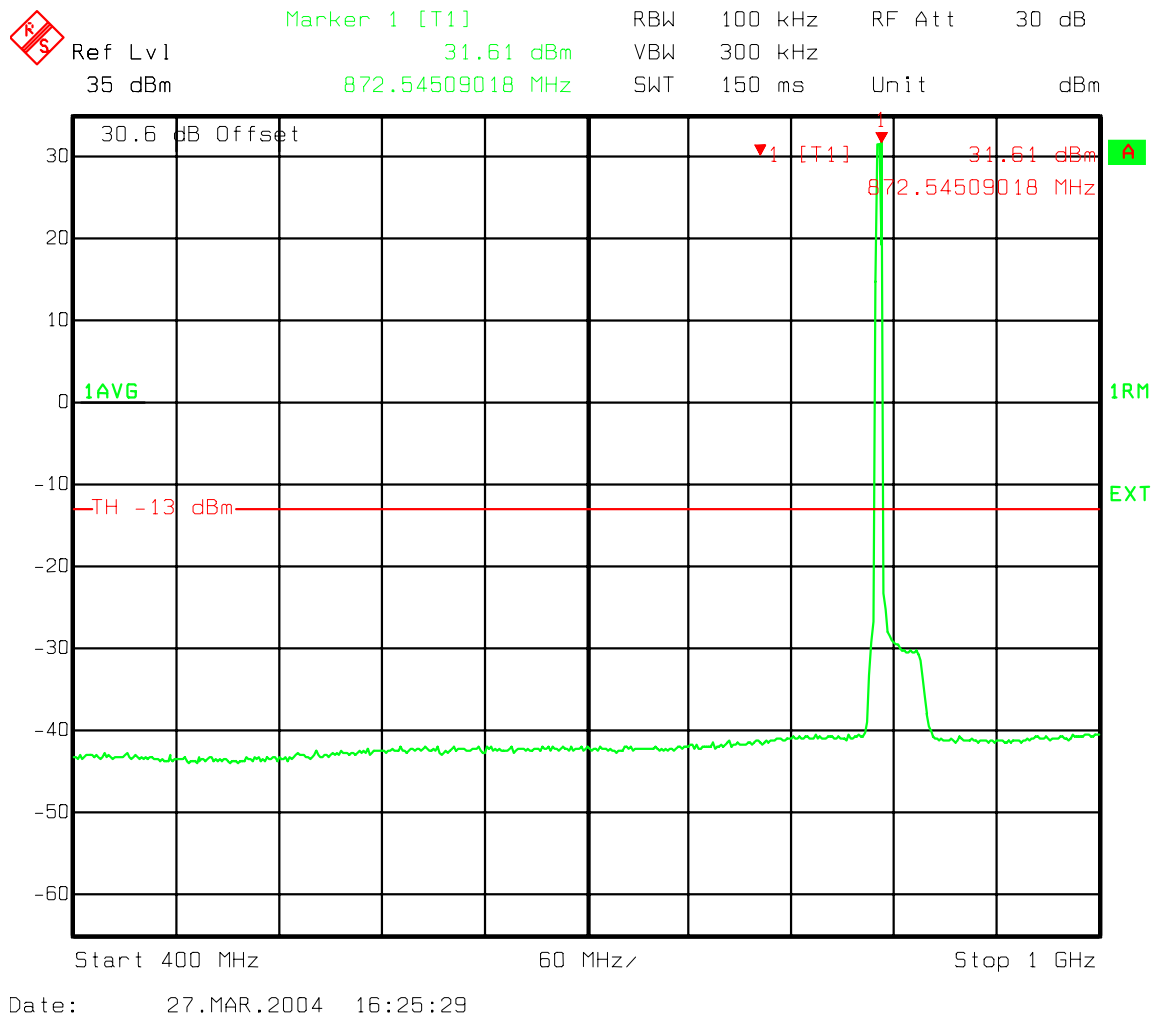
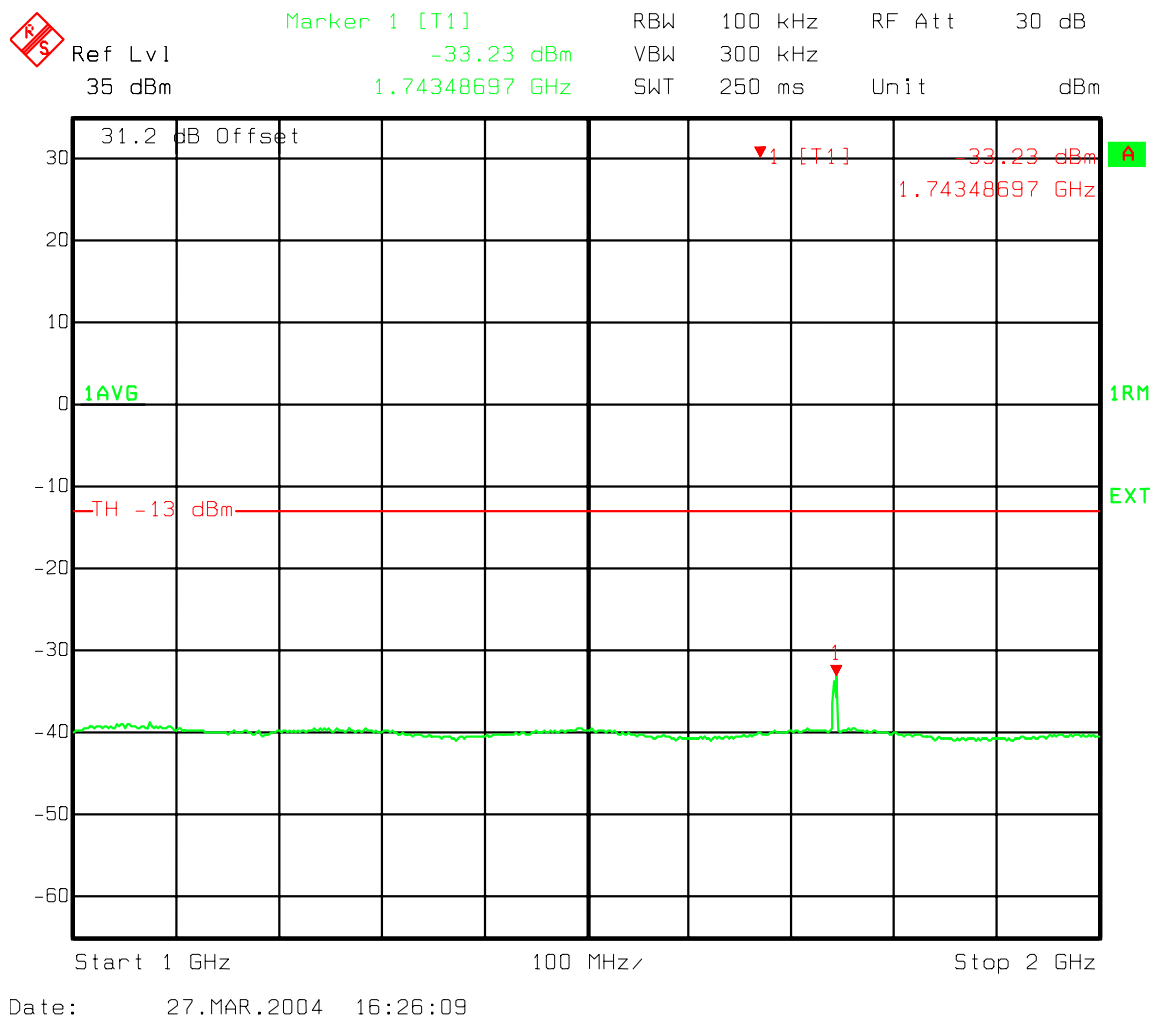


Figure 62 : Three Carriers - A" and A Band IS95 Spurious emissions 400-1000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A'' IS95**A'' and A Band IS95 Spurious emissions 1000-2000 MHz****Figure 63 : Three Carriers - A'' and A Band IS95 Spurious emissions 1000-2000 MHz**

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" and A Band IS95 Spurious emissions 2000-3000 MHz

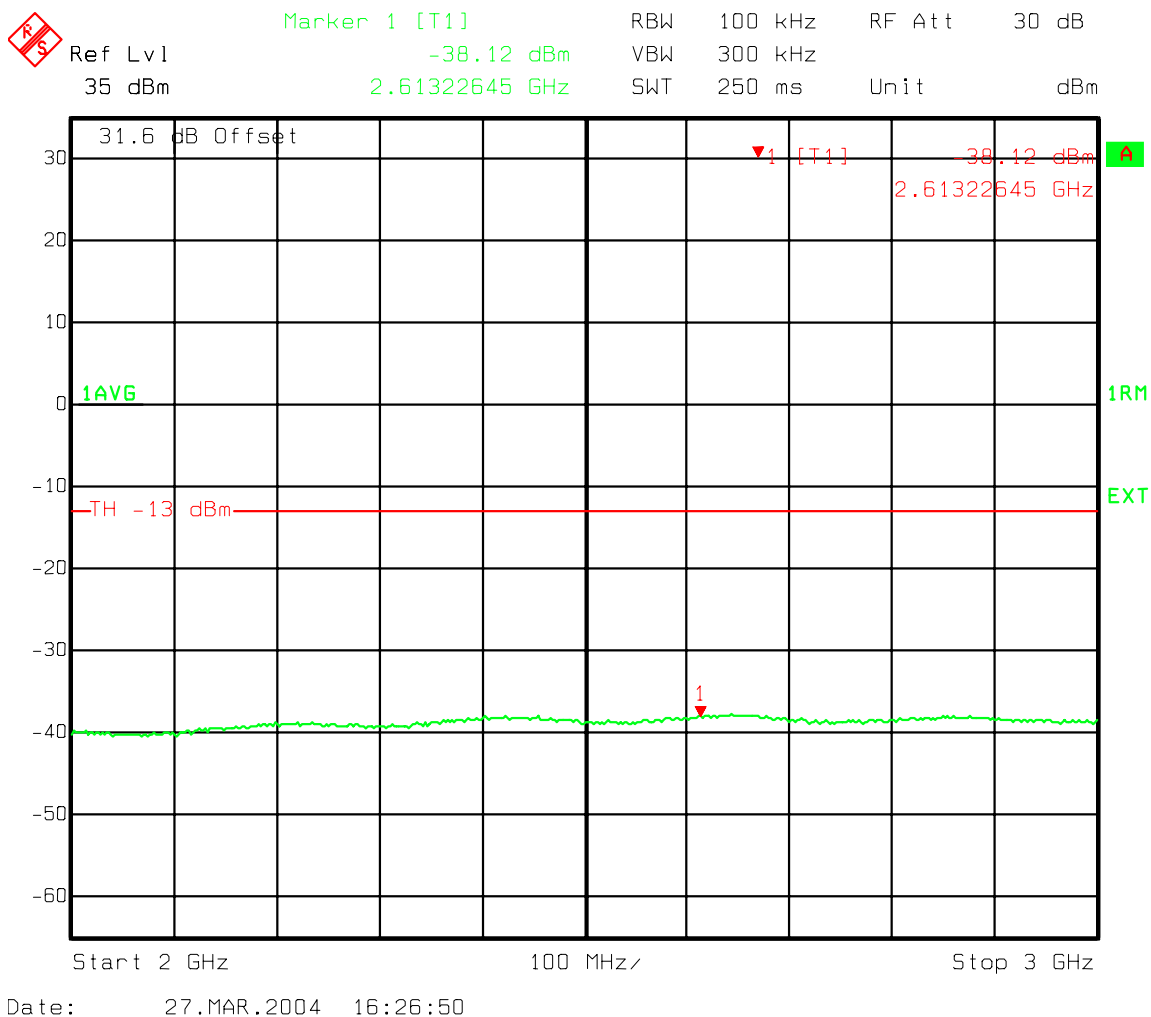


Figure 64 : Three Carriers - A" and A Band IS95 Spurious emissions 2000-3000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A'' and A Band IS95 Spurious emissions 3000-4000 MHz

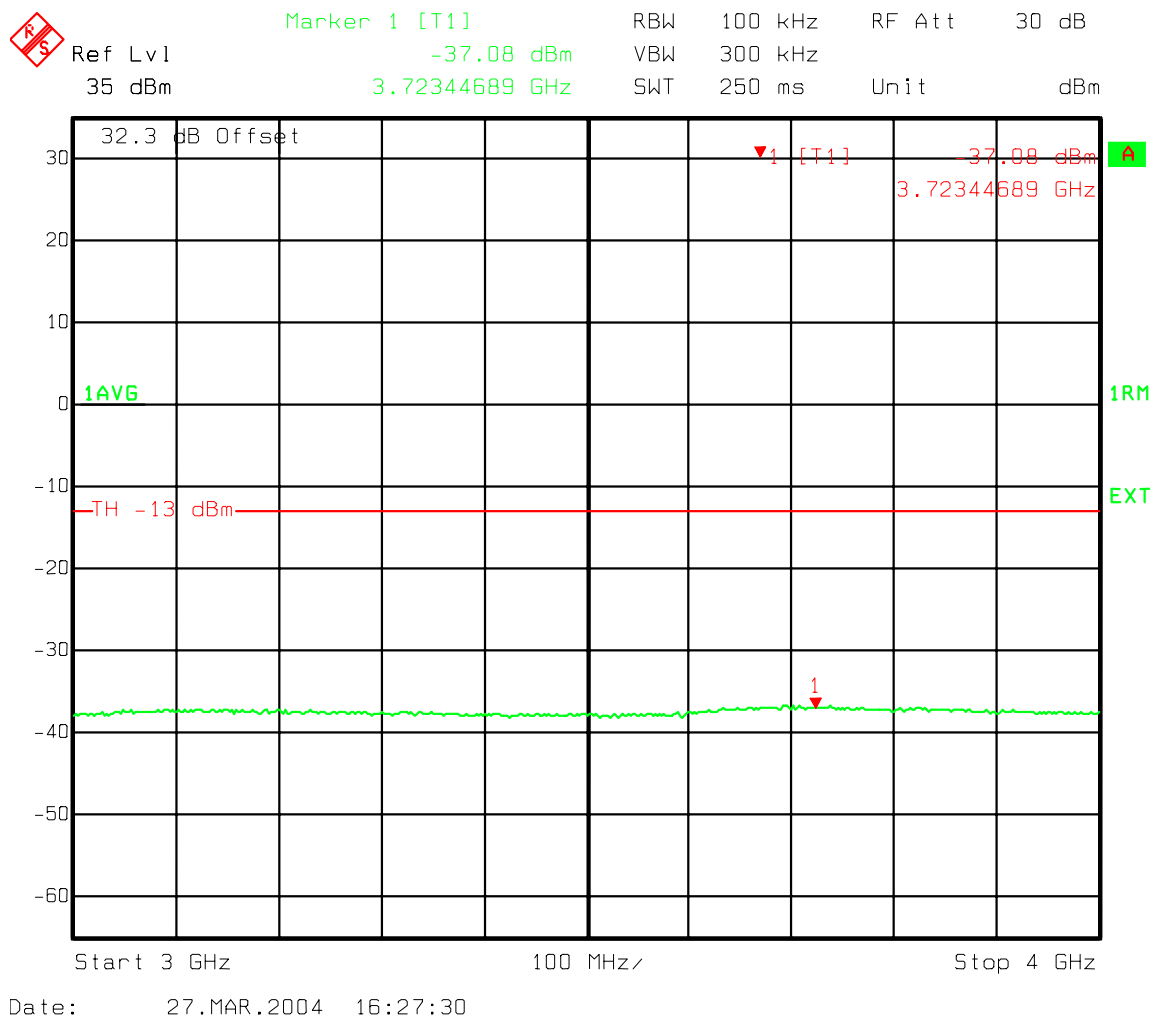


Figure 65 : Three Carriers - A'' and A Band IS95 Spurious emissions 3000-4000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" and A Band IS95 Spurious emissions 4000-5000 MHz

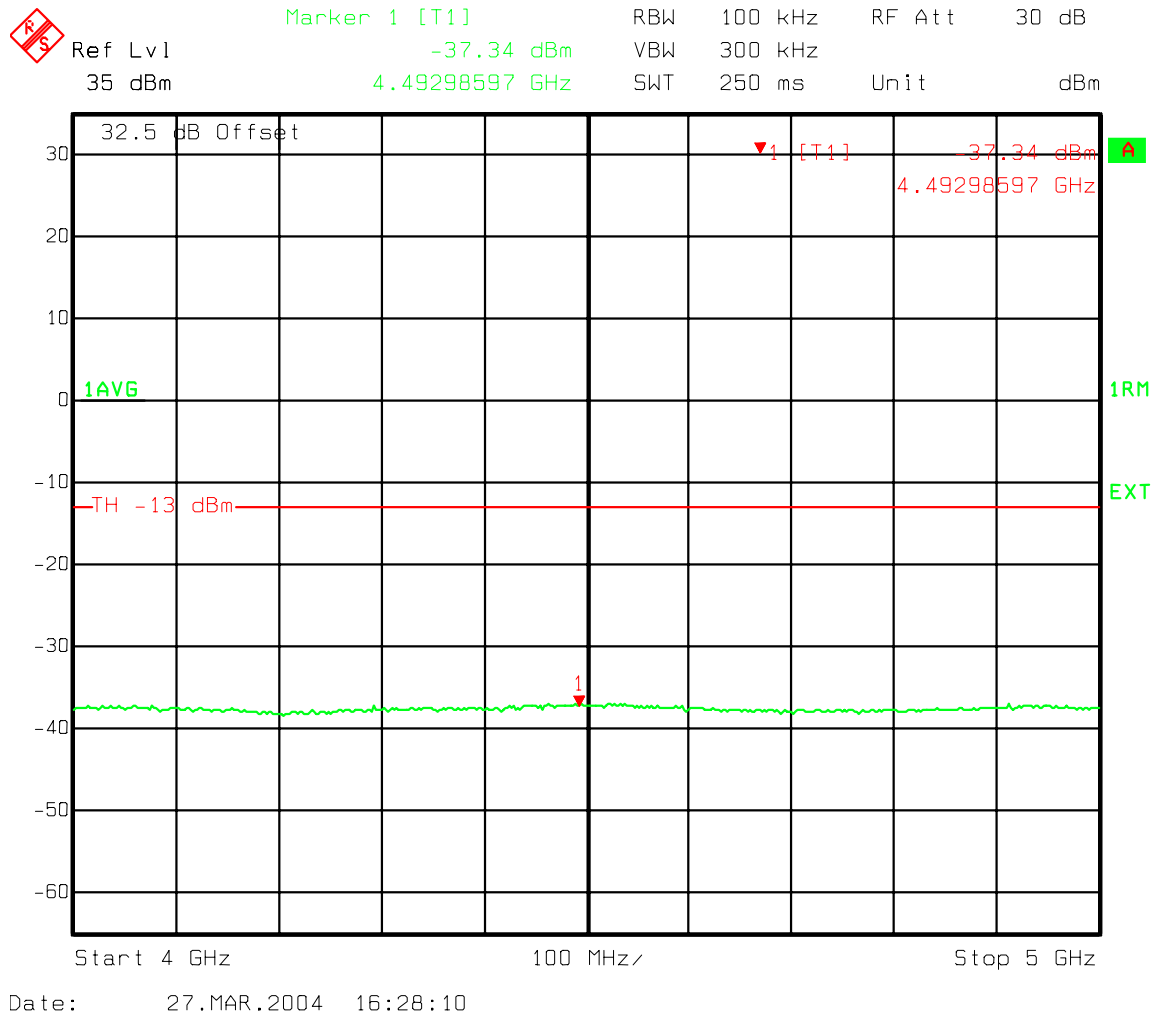


Figure 66 : Three Carriers - A" and A Band IS95 Spurious emissions 4000-5000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" and A Band IS95 Spurious emissions 5000-6000 MHz

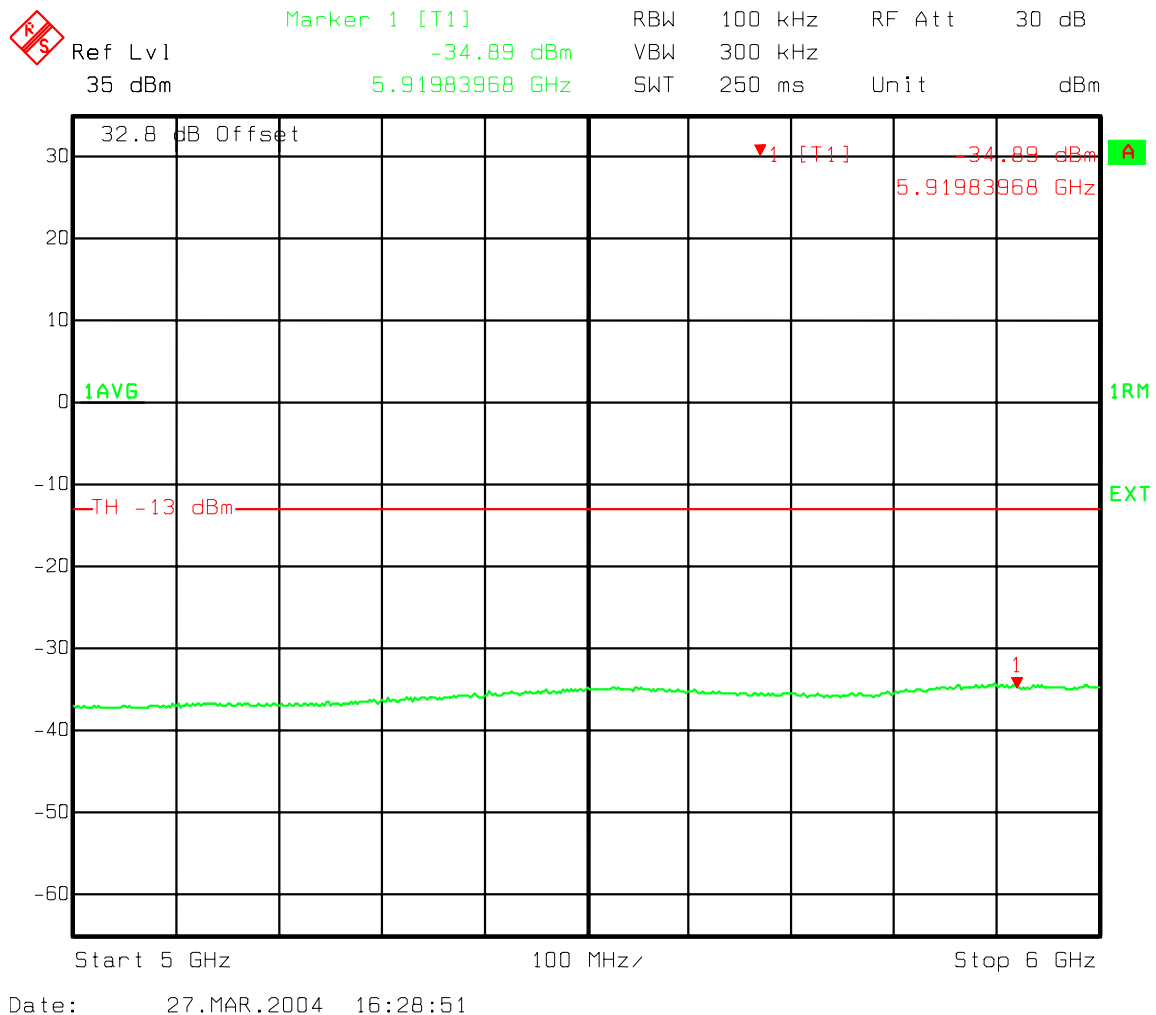


Figure 67 : Three Carriers - A" and A Band IS95 Spurious emissions 5000-6000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" and A Band IS95 Spurious emissions 6000-7000 MHz

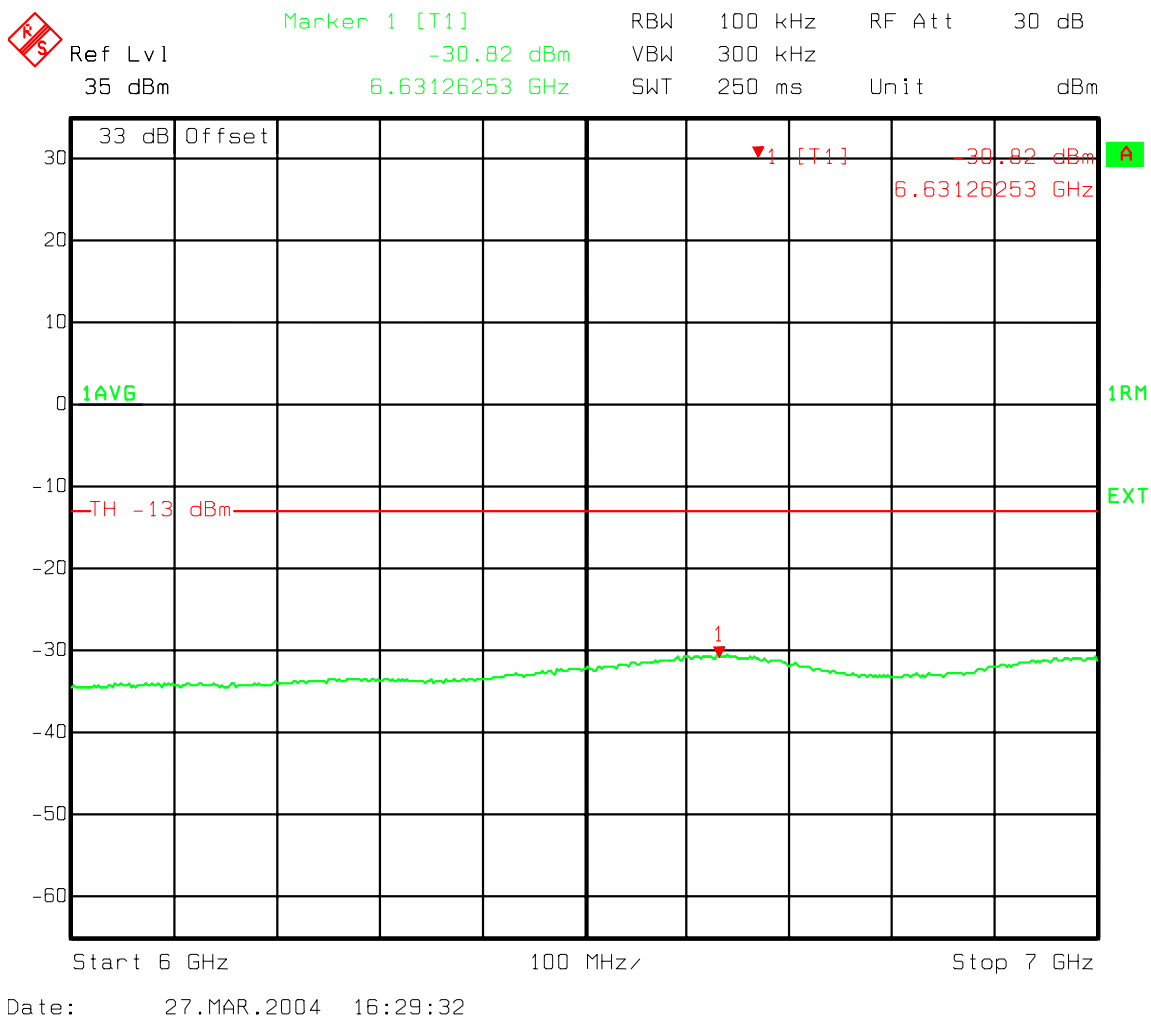


Figure 68 : Three Carriers - A" and A Band IS95 Spurious emissions 6000-7000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A'' IS95

A'' and A Band IS95 Spurious emissions 7000-8000 MHz

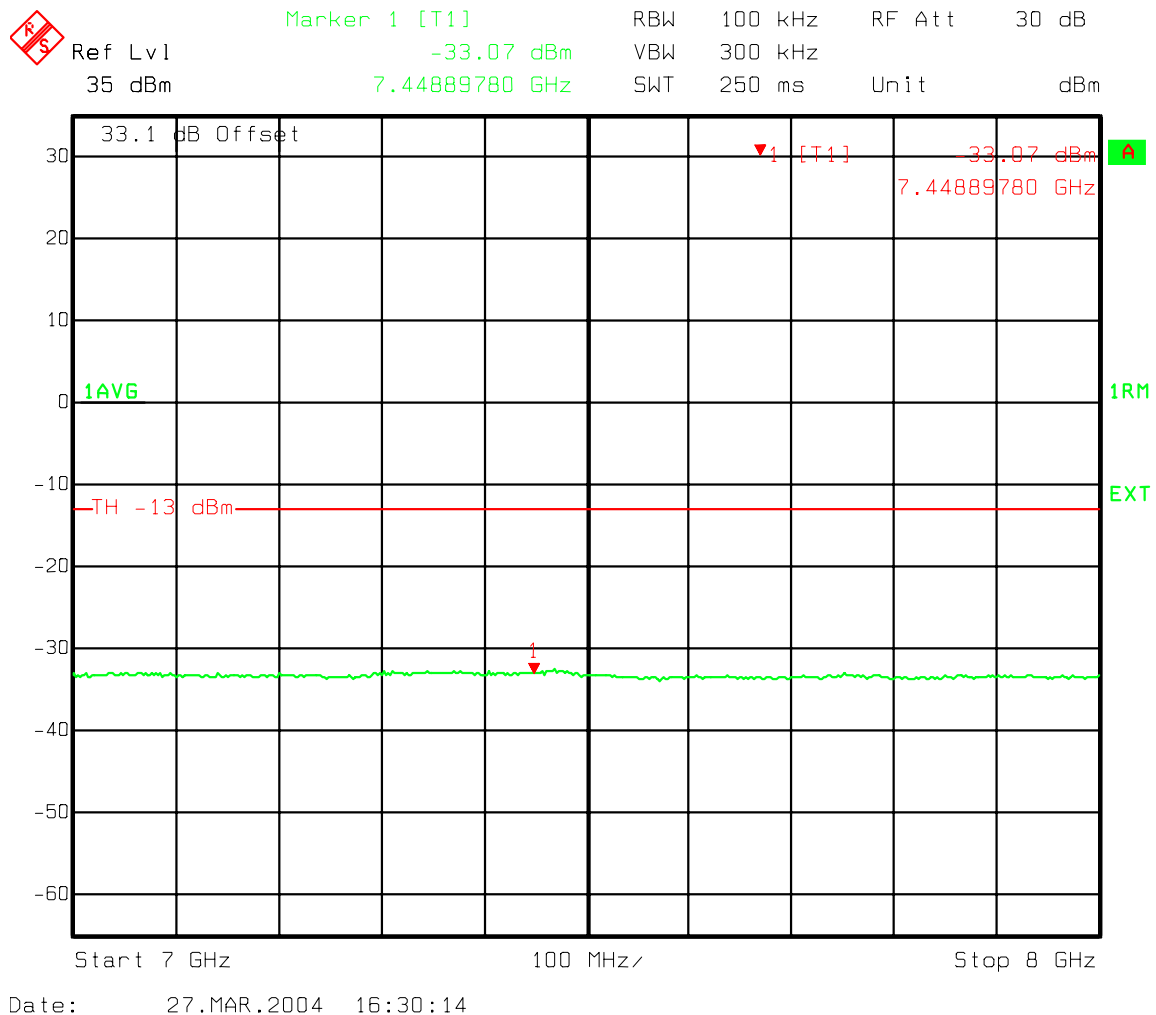


Figure 69 : Three Carriers - A'' and A Band IS95 Spurious emissions 7000-8000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A" IS95

A" and A Band IS95 Spurious emissions 8000-9000 MHz

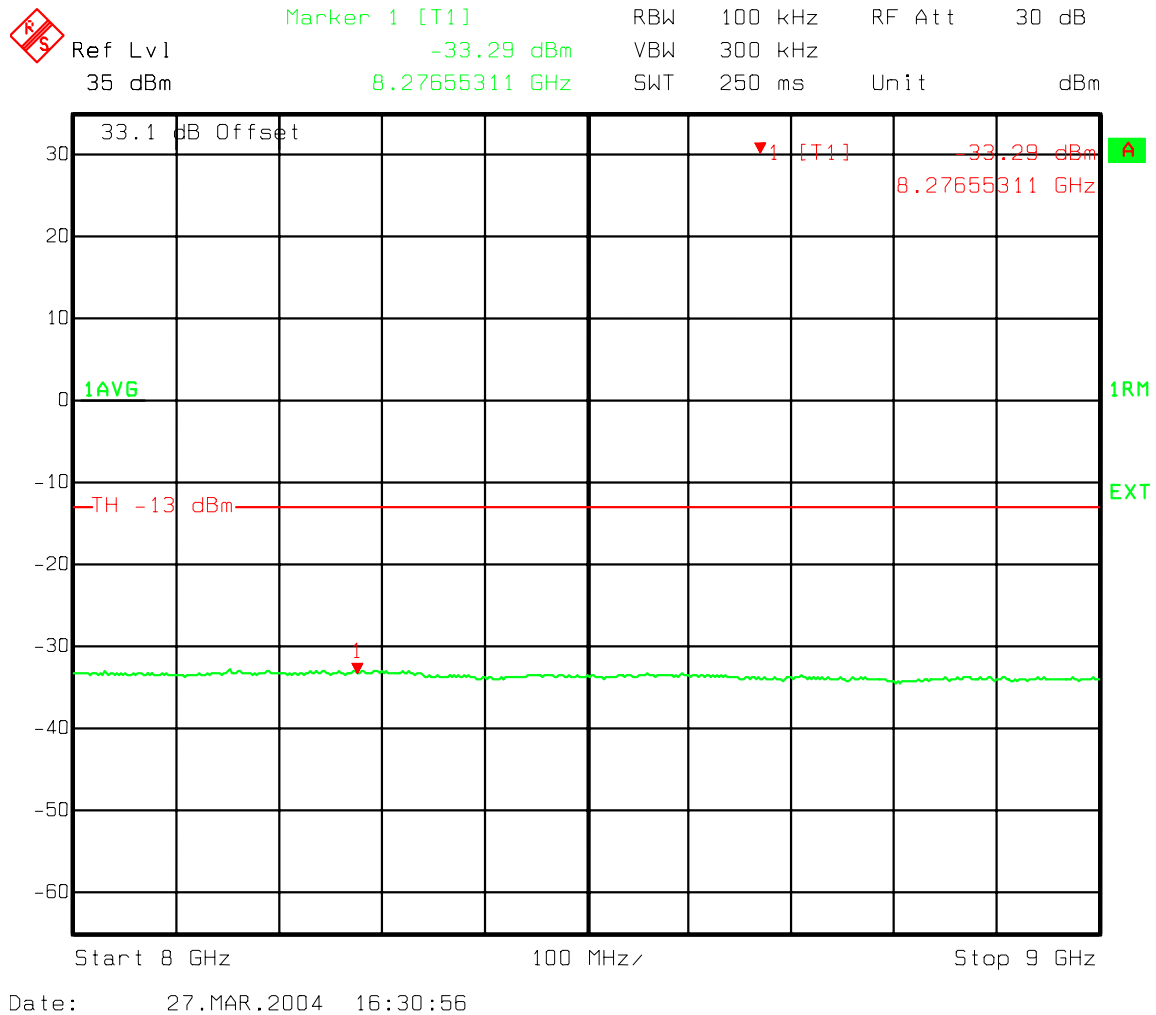


Figure 70 : Three Carriers - A" and A Band IS95 Spurious emissions 8000-9000 MHz

Three Carrier Channel 1015, 33, 74 and 226, 267, 308 Spurious Emissions at the 800 MHz MFRM1 (Tornado) Ant. Port Band A and A'' IS95

A'' and A Band IS95 Spurious emissions 9000-10000 MHz

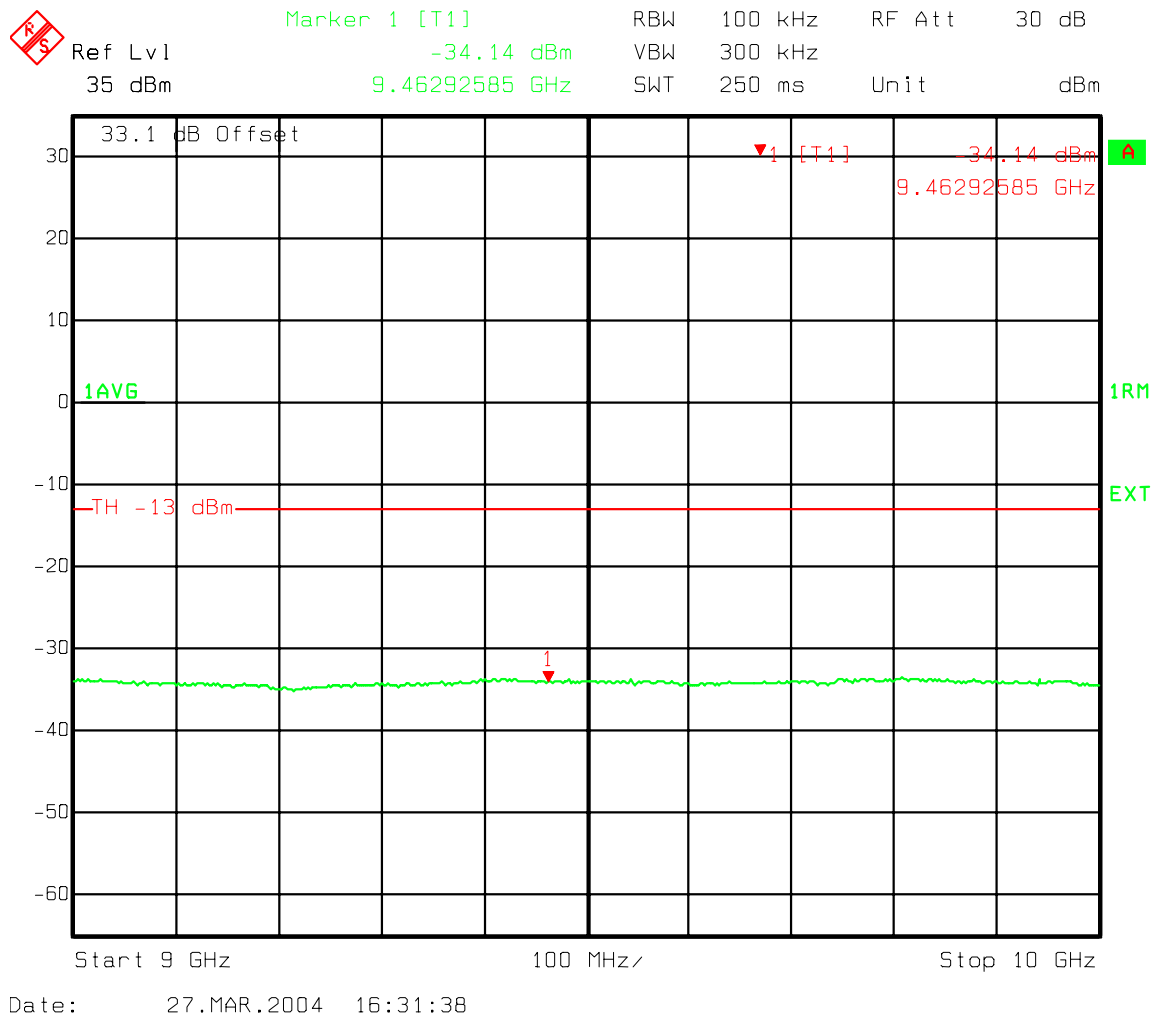


Figure 71 : Three Carriers - A'' and A Band IS95 Spurious emissions 9000-10000 MHz

8 Appendix D - One Carrier IS-856 16QAM Spurious Emission

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

Occupied Bandwidth Ch 358 B Band IS856

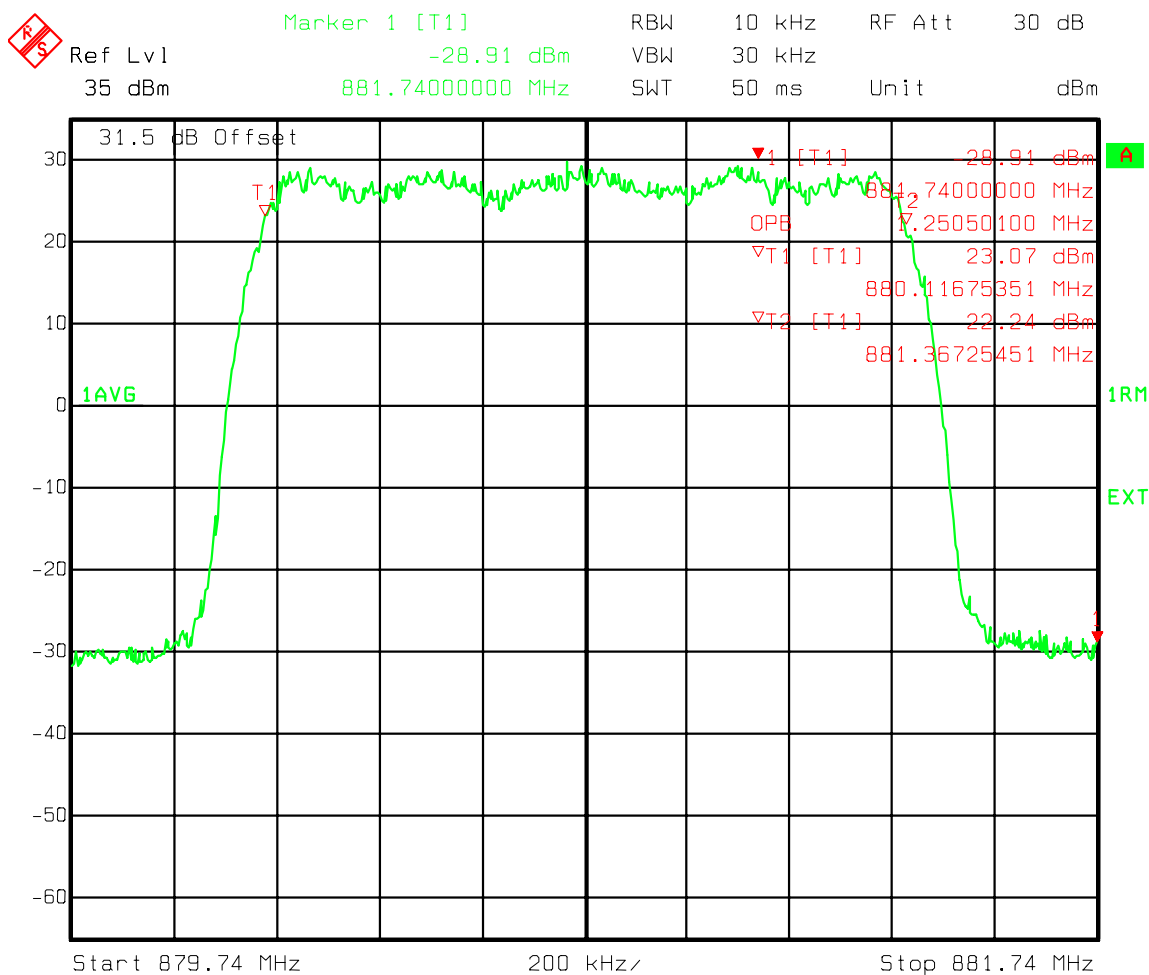


Figure 72 : 1 Carrier - Occupied Bandwidth Channel 358

Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port one Carrier Band B IS 856

B Band Ch 358 IS856 Adjacent 1Mhz Lower emissions 879-880MHz

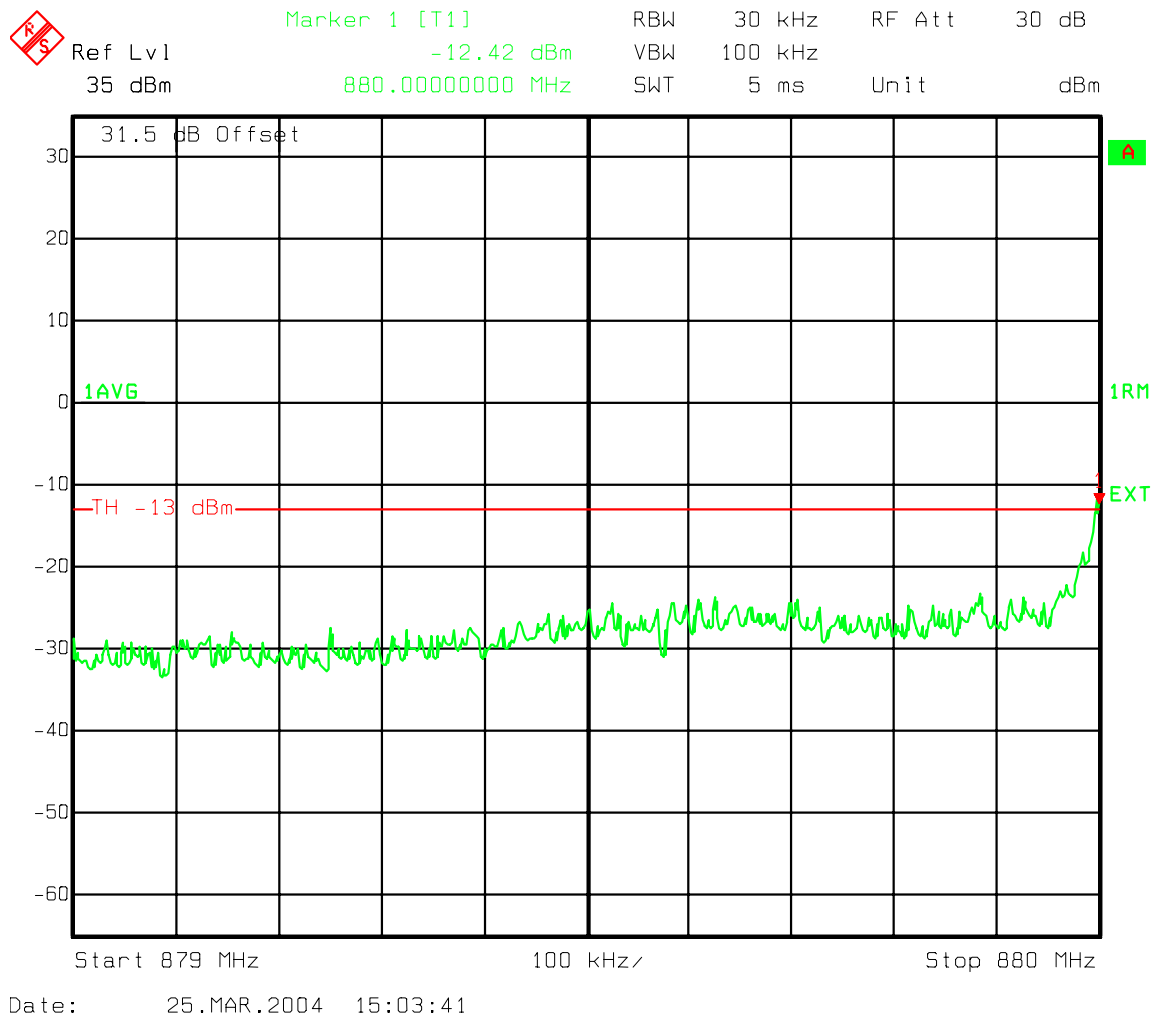


Figure 73 : One Carrier - B Band Ch 358 IS856 Adjacent 1 MHz Lower emissions 879-880 MHz

Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port one Carrier Band B IS 856

B Band Ch358 IS856 Adjacent 30kHz Lower emissions to 869 MHz

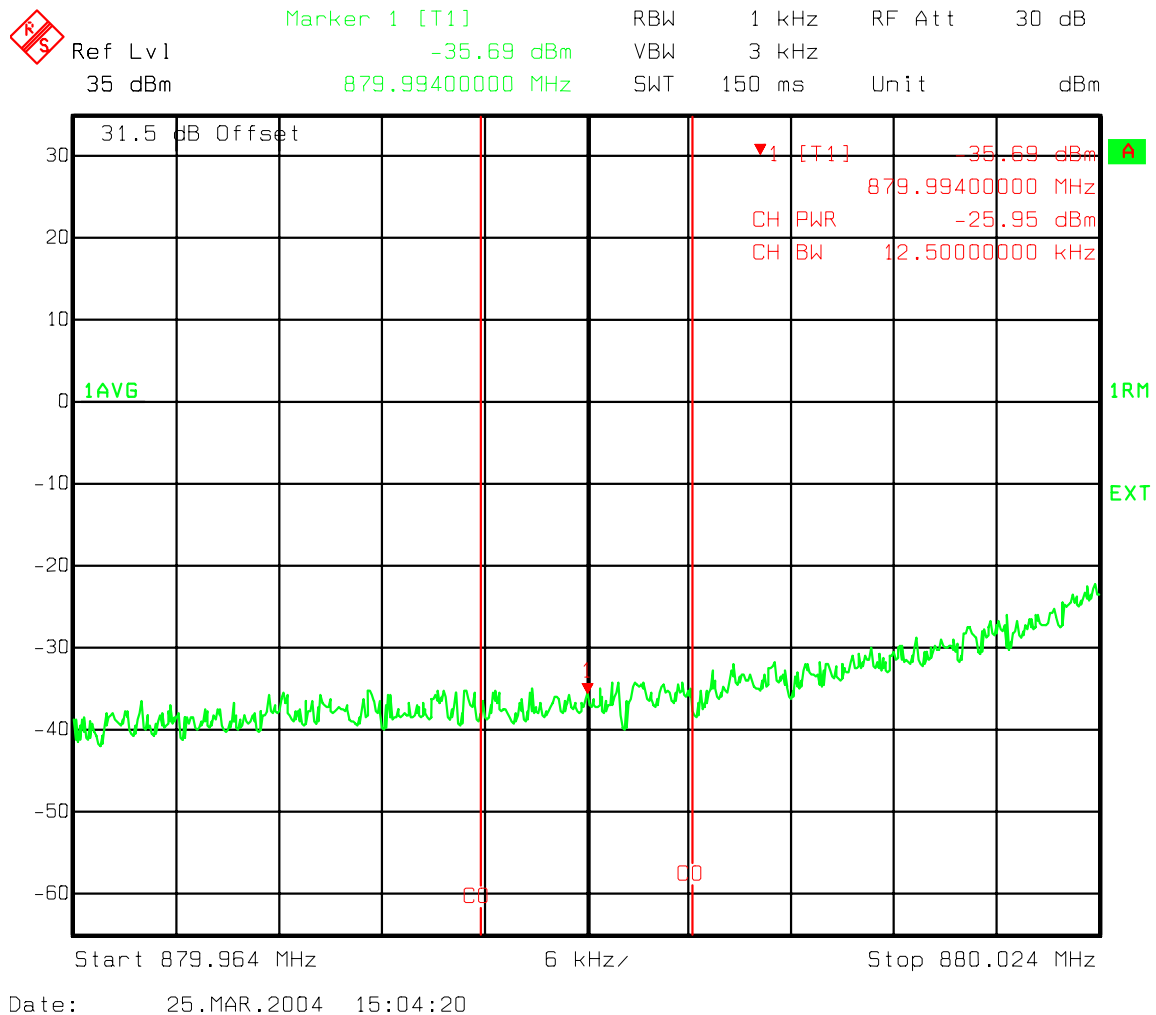
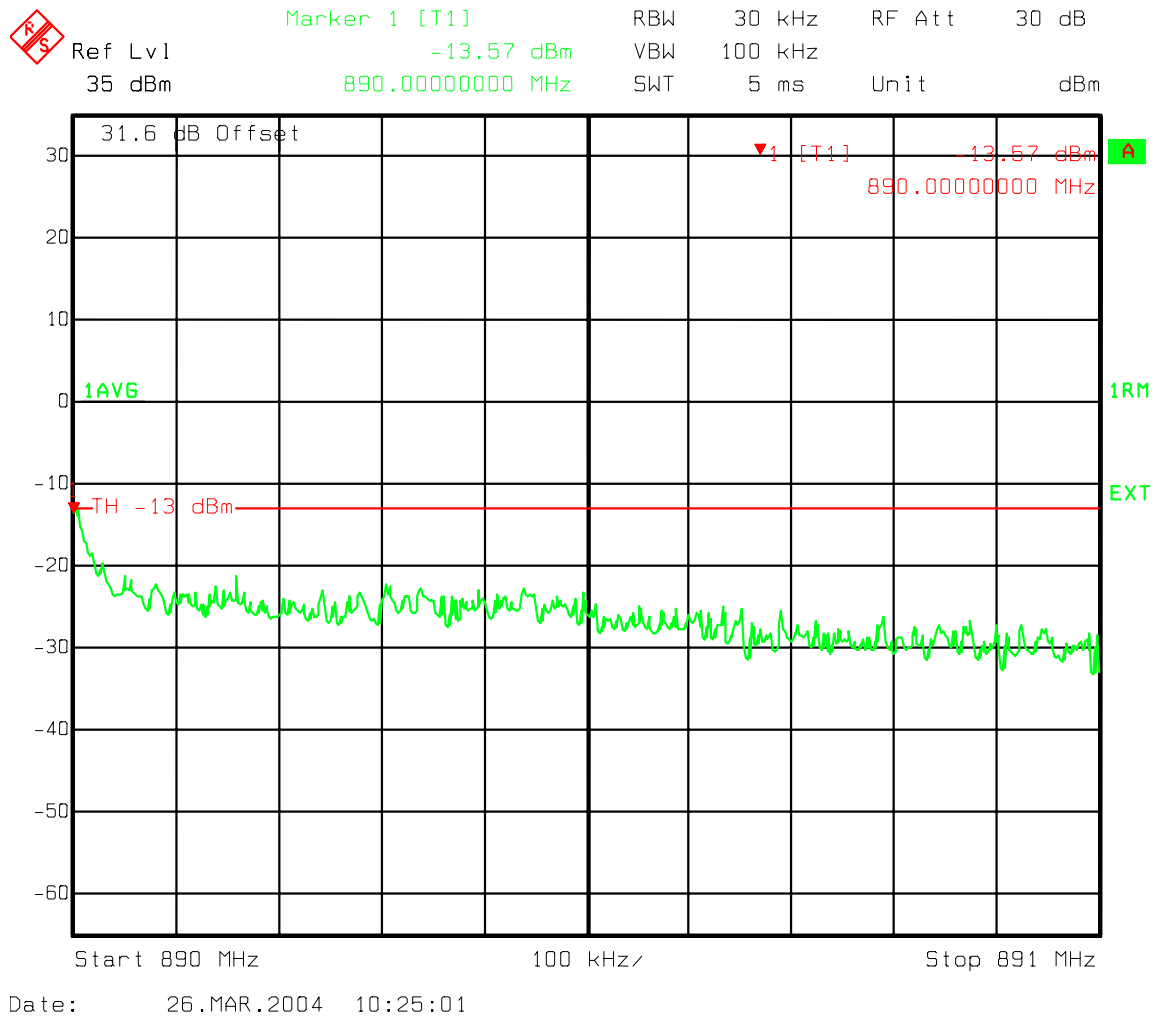
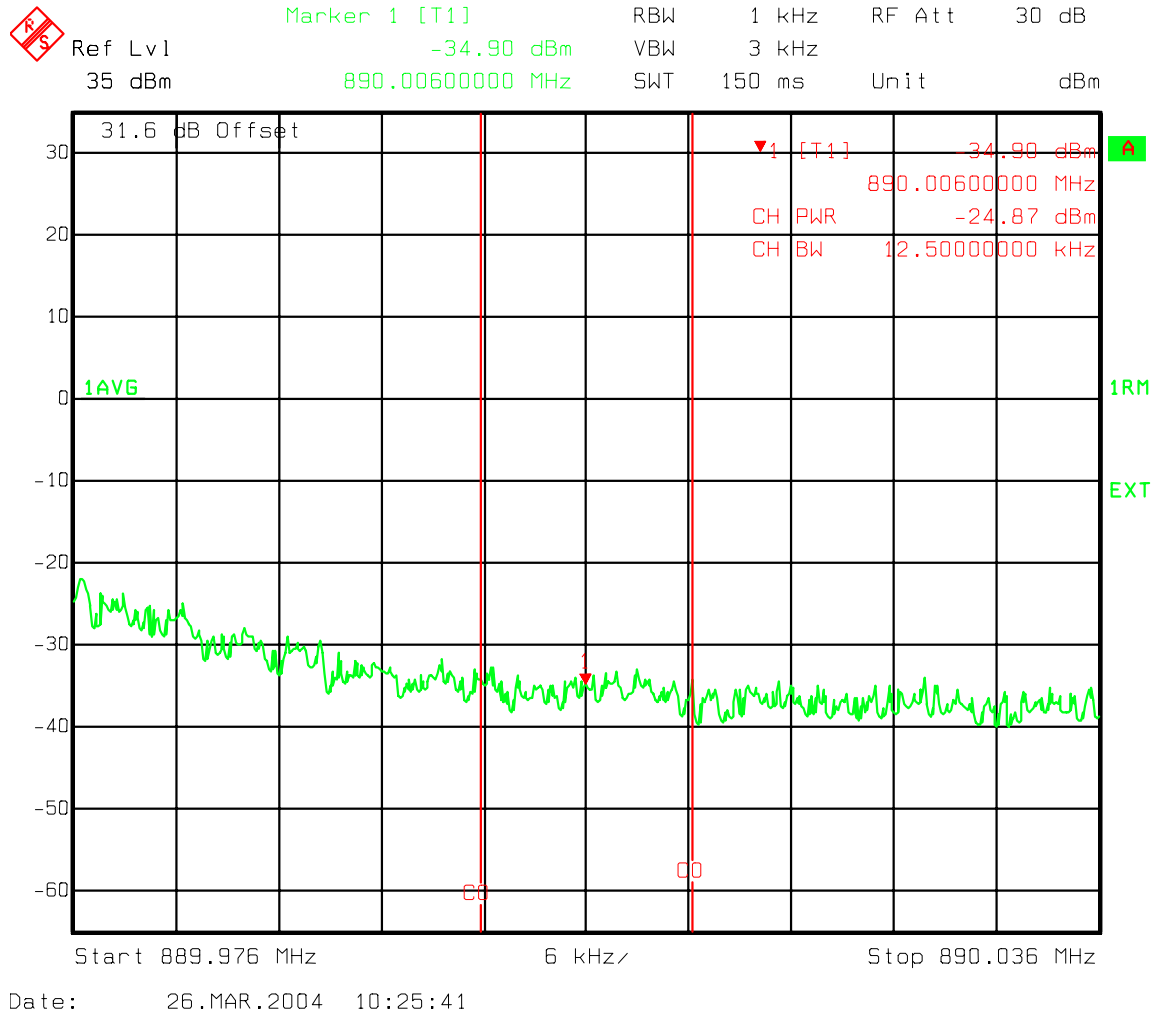


Figure 74 : One Carrier - Ch3585 IS856 Lower B Band Adjacent to outside edge 12.5kHz band Channel Power

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****Ch 642 Upper B Band adjacent 1MHz band emissions****Figure 75 : One Carrier - Ch 642 Upper A Band adjacent 1MHz band emissions**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

Ch 642 Upper B Band adjacent to outside edge 12.5 kHz band Channel power



**Figure 76 : One Carrier - Ch 642 Upper B Band adjacent to outside edge 12.5 kHz band
 Channel power**

Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port one Carrier Band B IS 856

Industry Canada Lower 750 kHz offset 30kHz Chan Power Ch 358

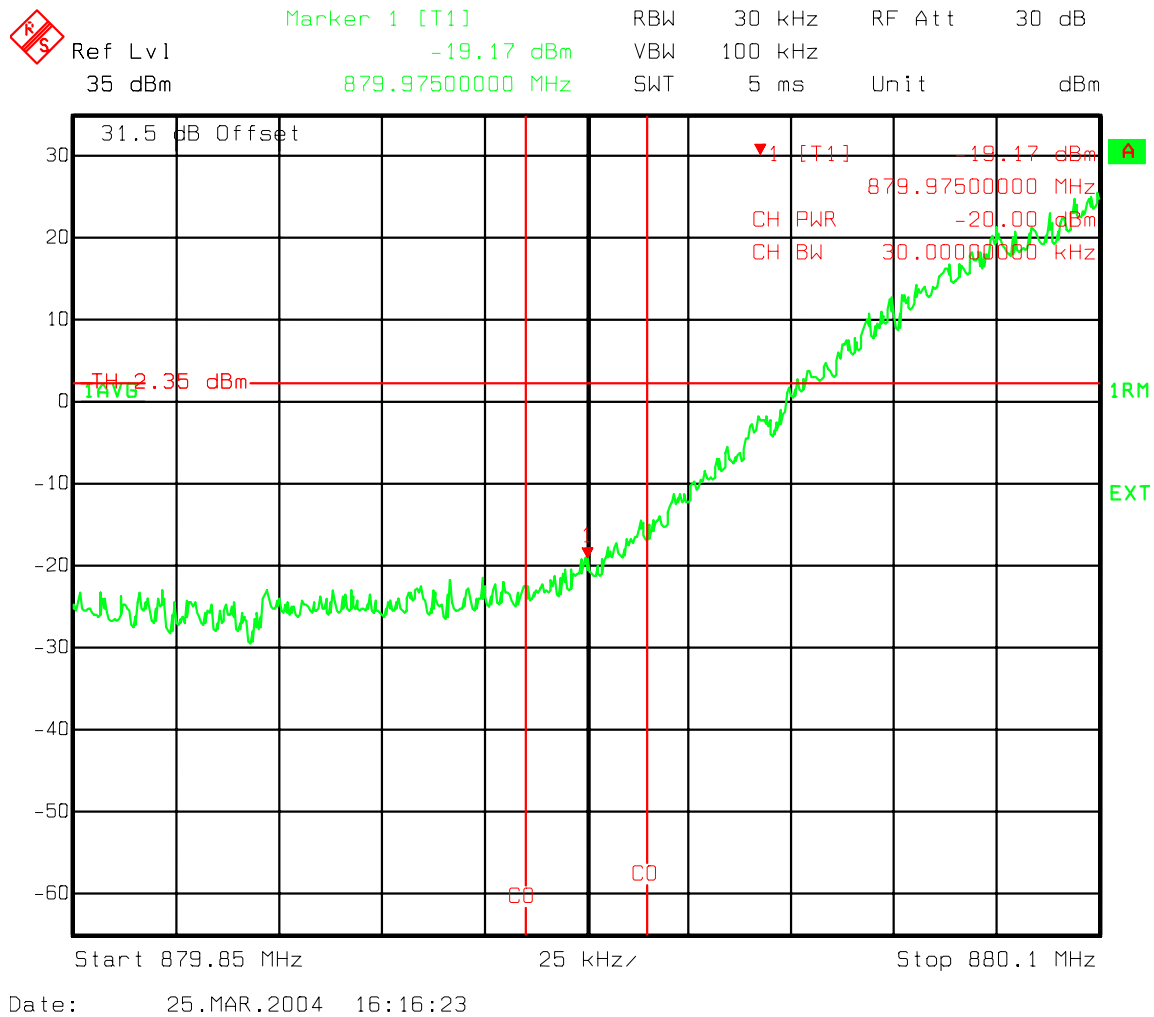


Figure 77 : One Carrier - Industry Canada Lower 750 kHz offset 30 kHz Chan Power Ch 358

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

Industry Canada Upper 750 kHz offset 30kHzChan Power Ch 358

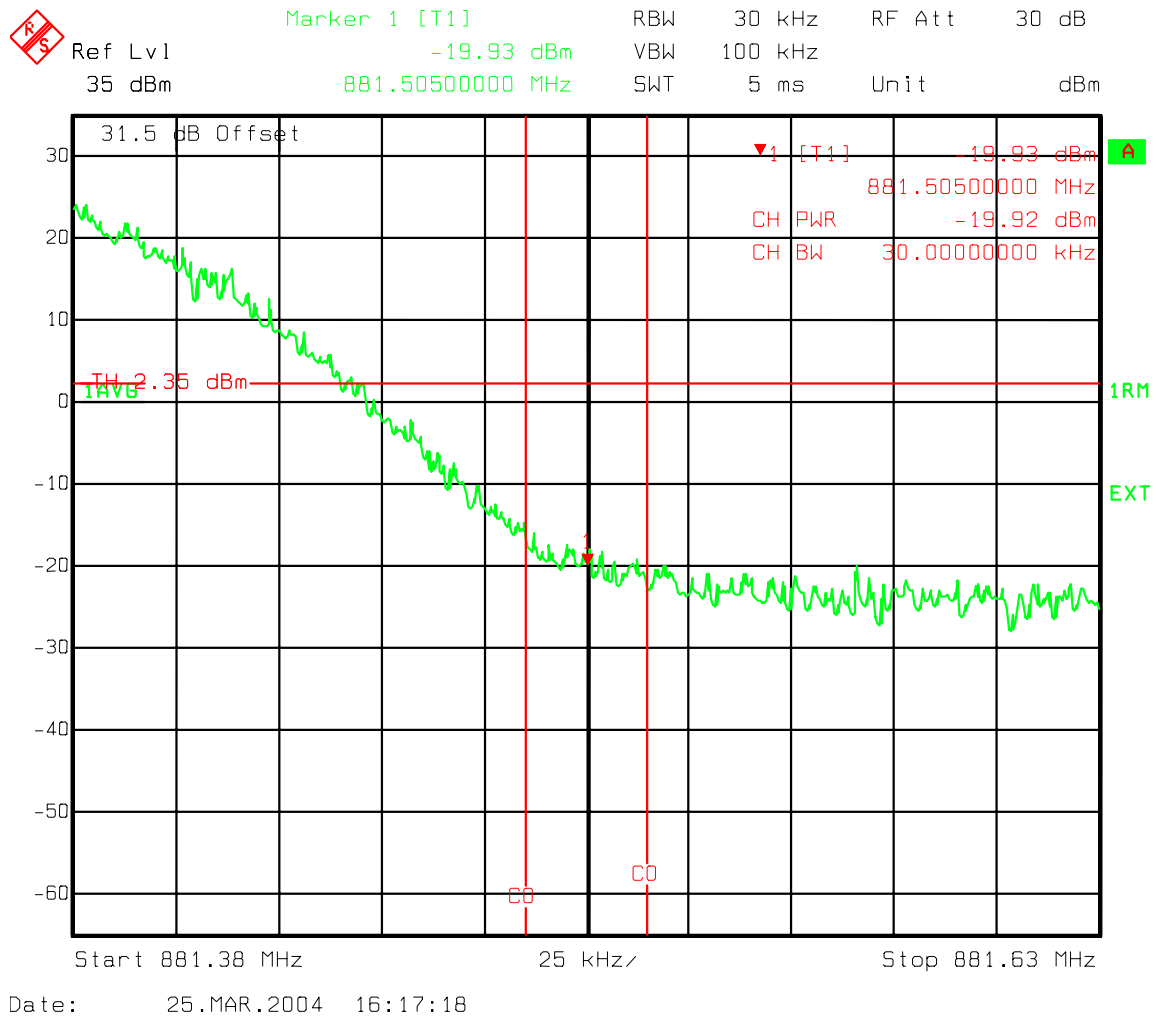


Figure 78 : One Carrier - Industry Canada Upper 750 kHz offset 30 kHz Chan Power Ch 358

Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port one Carrier Band B IS 856

Industry Canada 1.98 MHz offset Lower 30kHzChan Power Ch 358

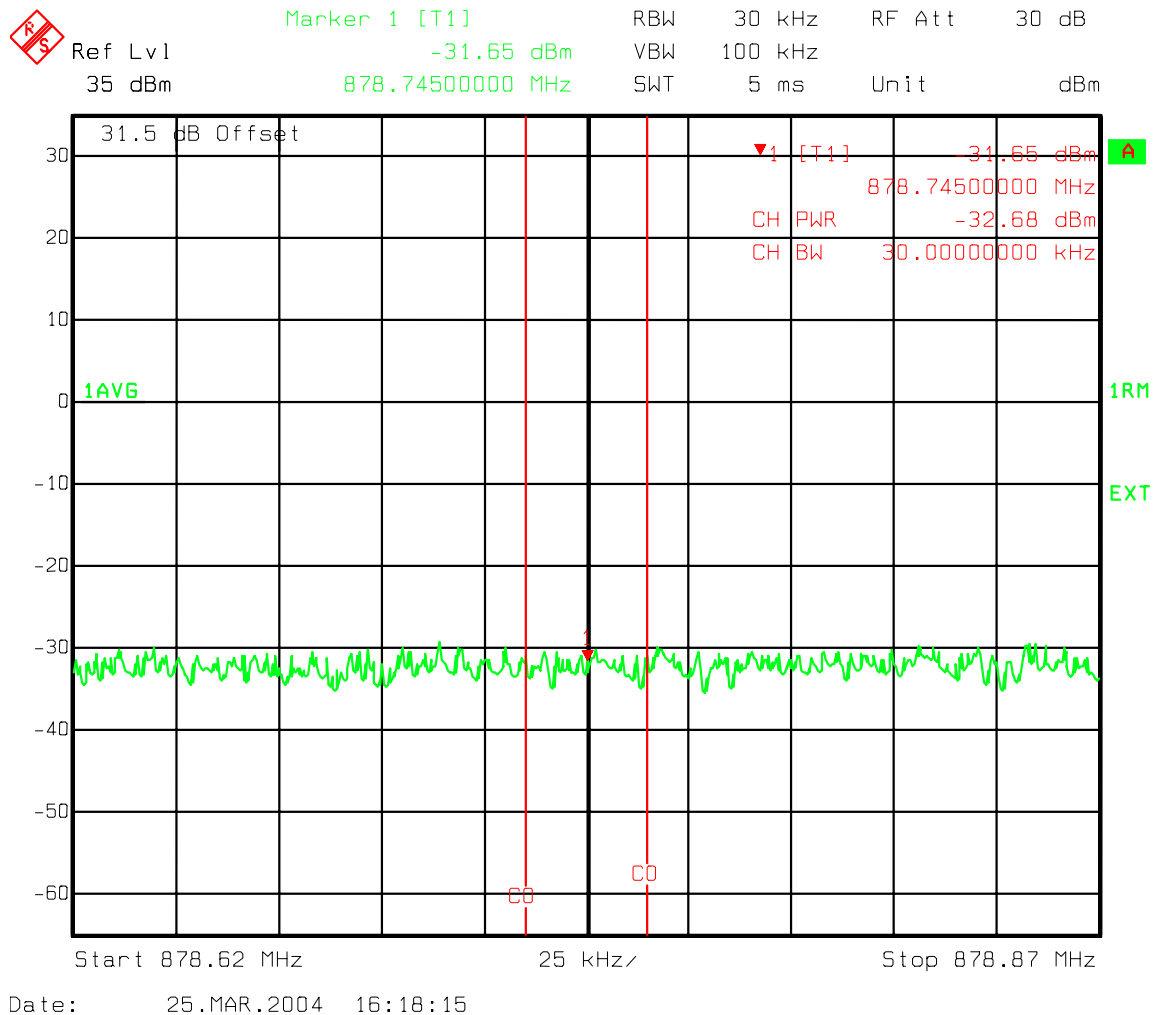


Figure 79 : One Carrier - Industry Canada 1.98 MHz offset Lower 30 kHz Chan Power Ch 358

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

Industry Canada 1.98 MHz offset Upper 30kHzChan Power Ch 358

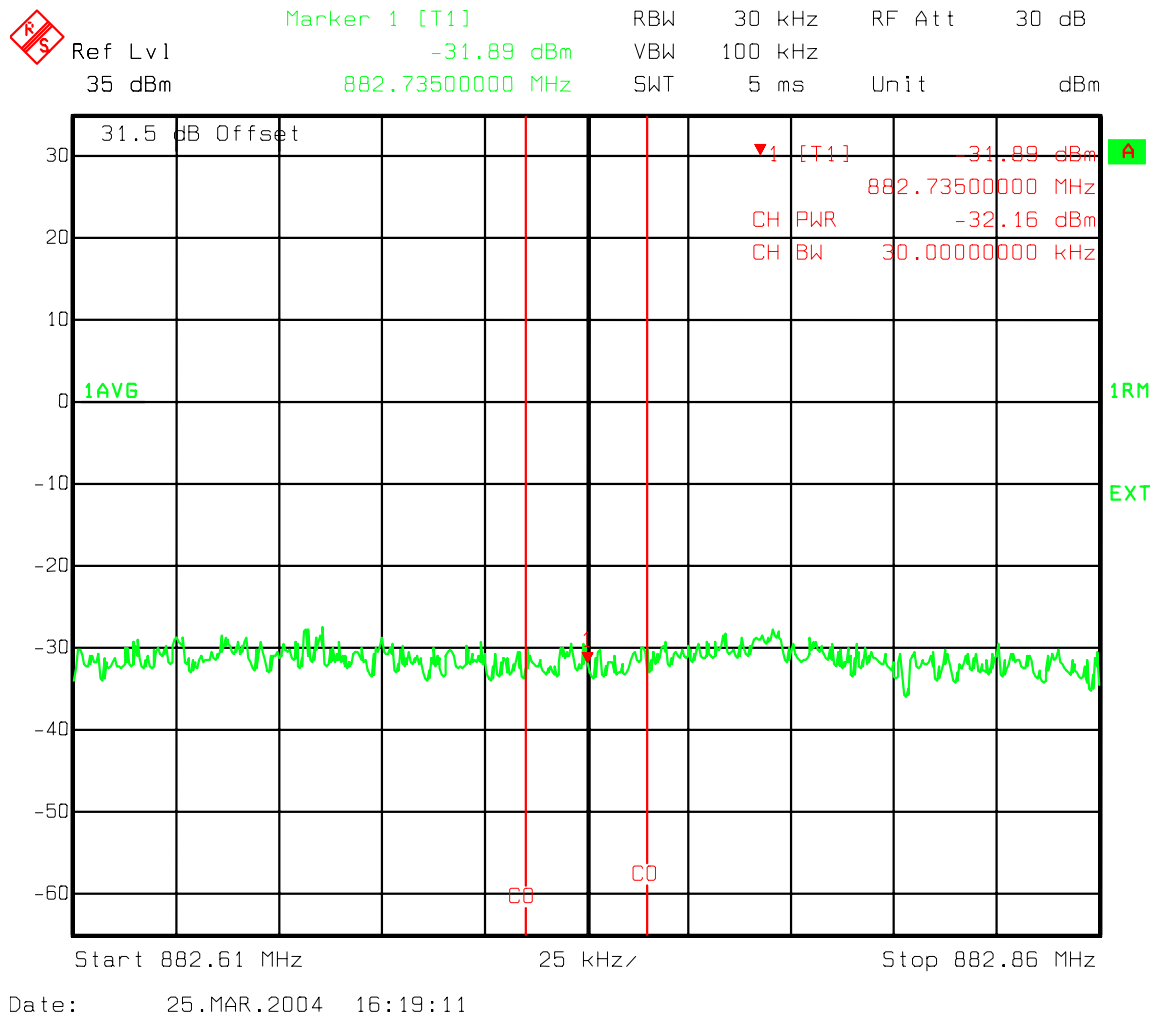
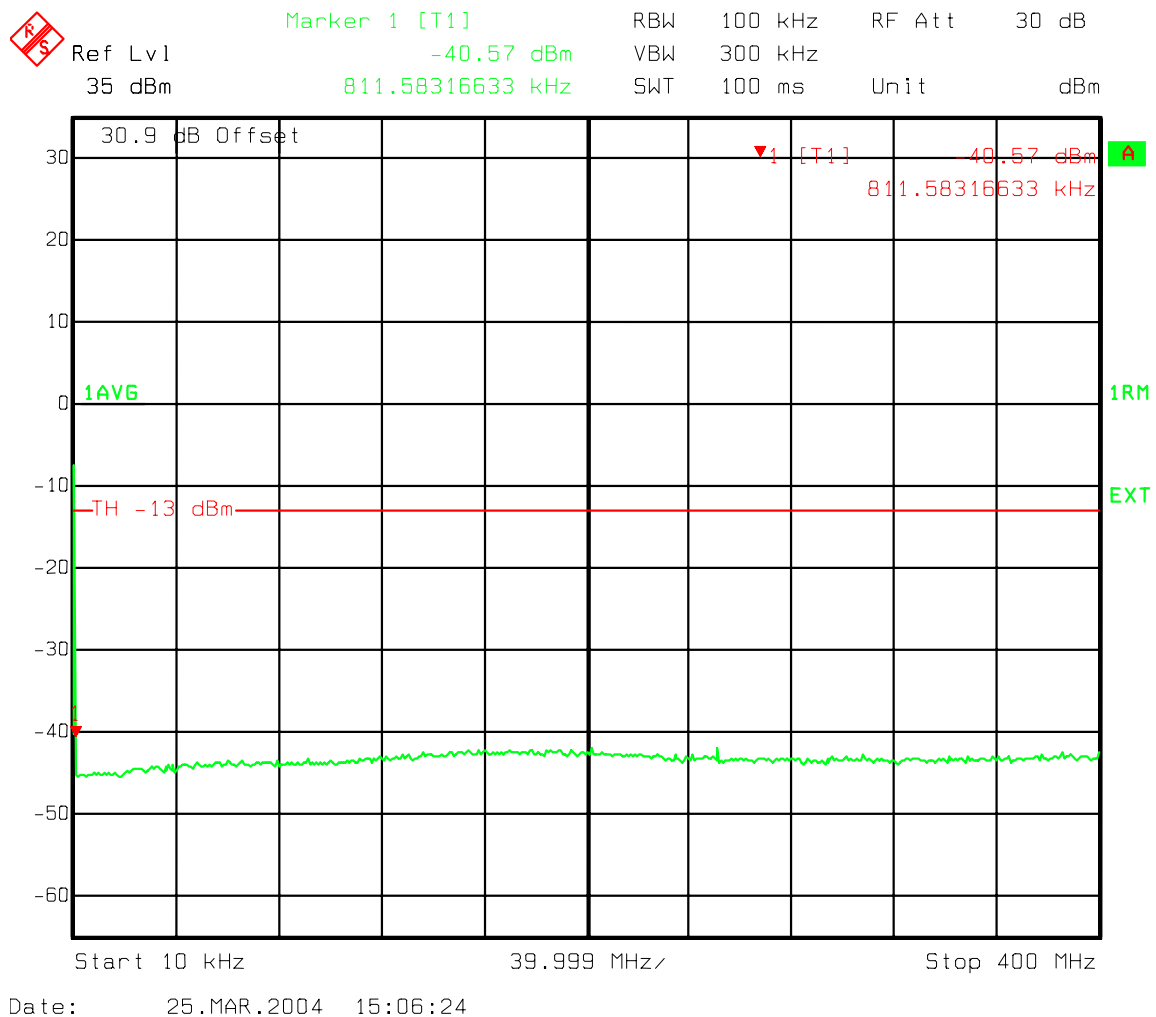
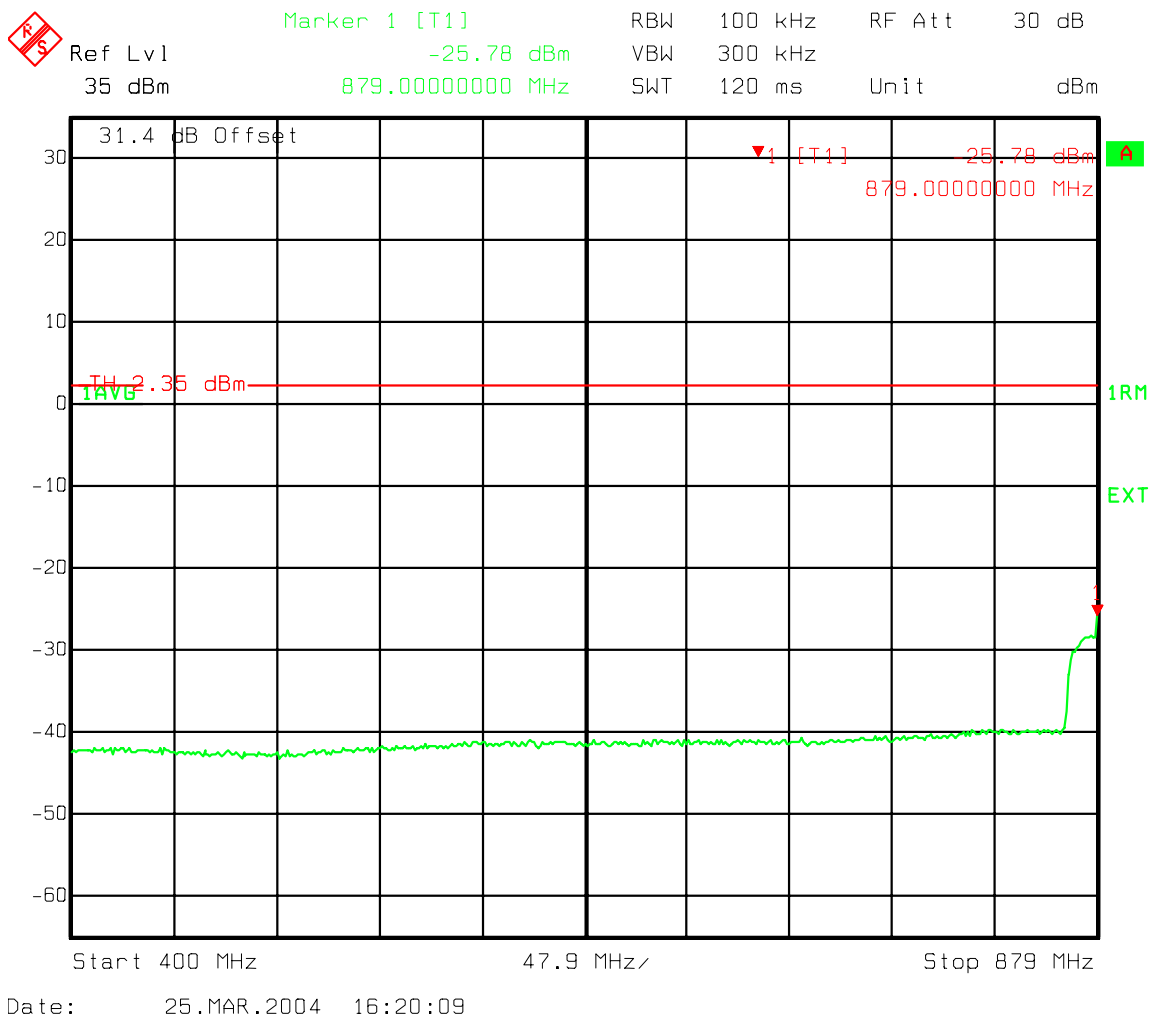


Figure 80 : One Carrier - Industry Canada 1.98 MHz offset Upper 30 kHz Chan Power Ch 358

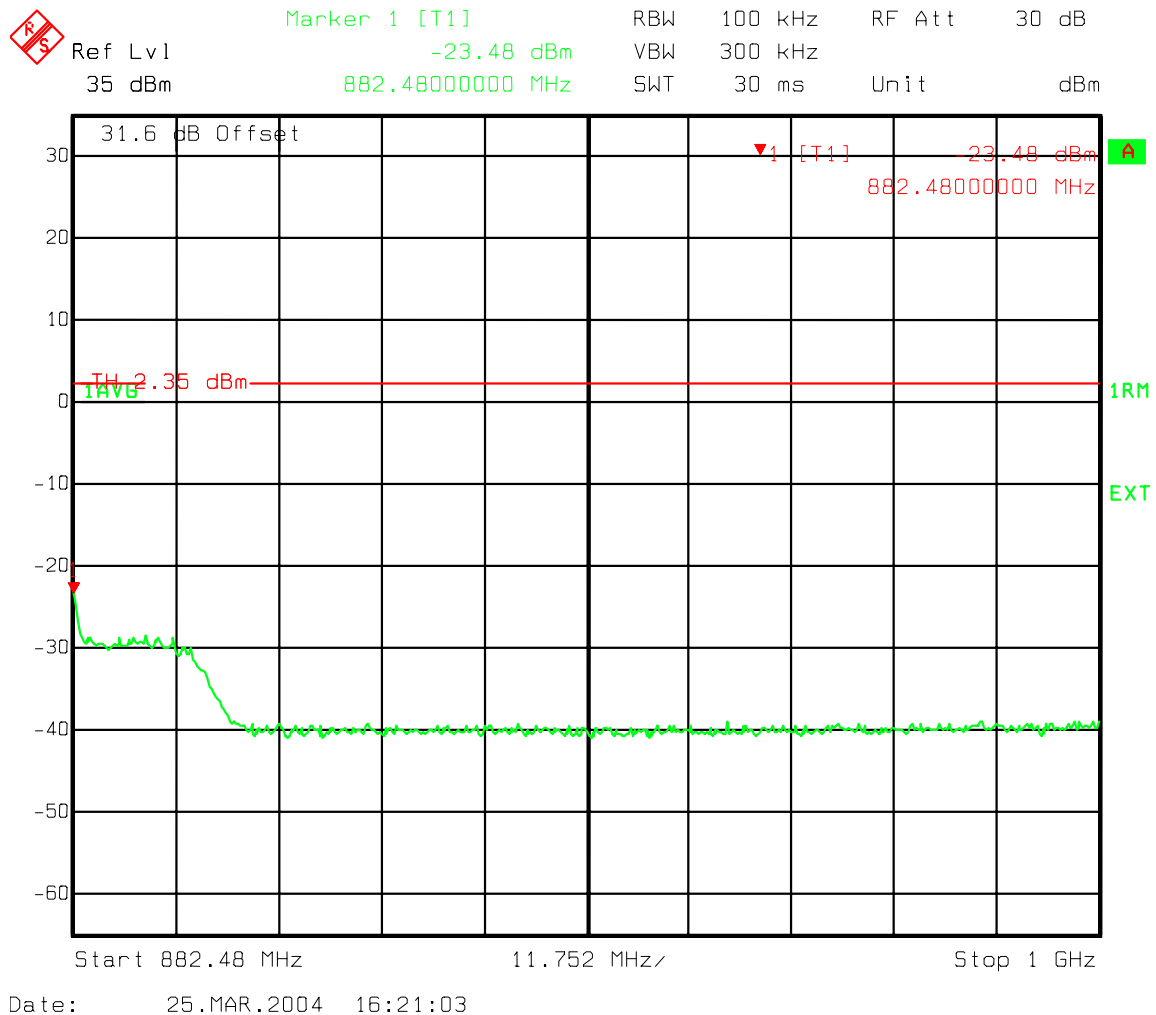
**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions 10kHz-400 MHz****Figure 81 : One Carrier - B Band IS856 Spurious emissions 10kHz-400 MHz**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

B Band IS856 Spurious emissions 400MHz to Lower 1MHz Band Edge



**Figure 82 : One Carrier - B Band IS856 Spurious emissions 400 MHz to Lower 1 MHz
 Band Edge**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions Upper 1MHz Band Edge to 1GHz****Figure 83 : One Carrier - B Band IS856 Spurious emissions Upper 1 MHz Band Edge to 1 GHz**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

B Band IS856 Spurious emissions 400-1000 MHz

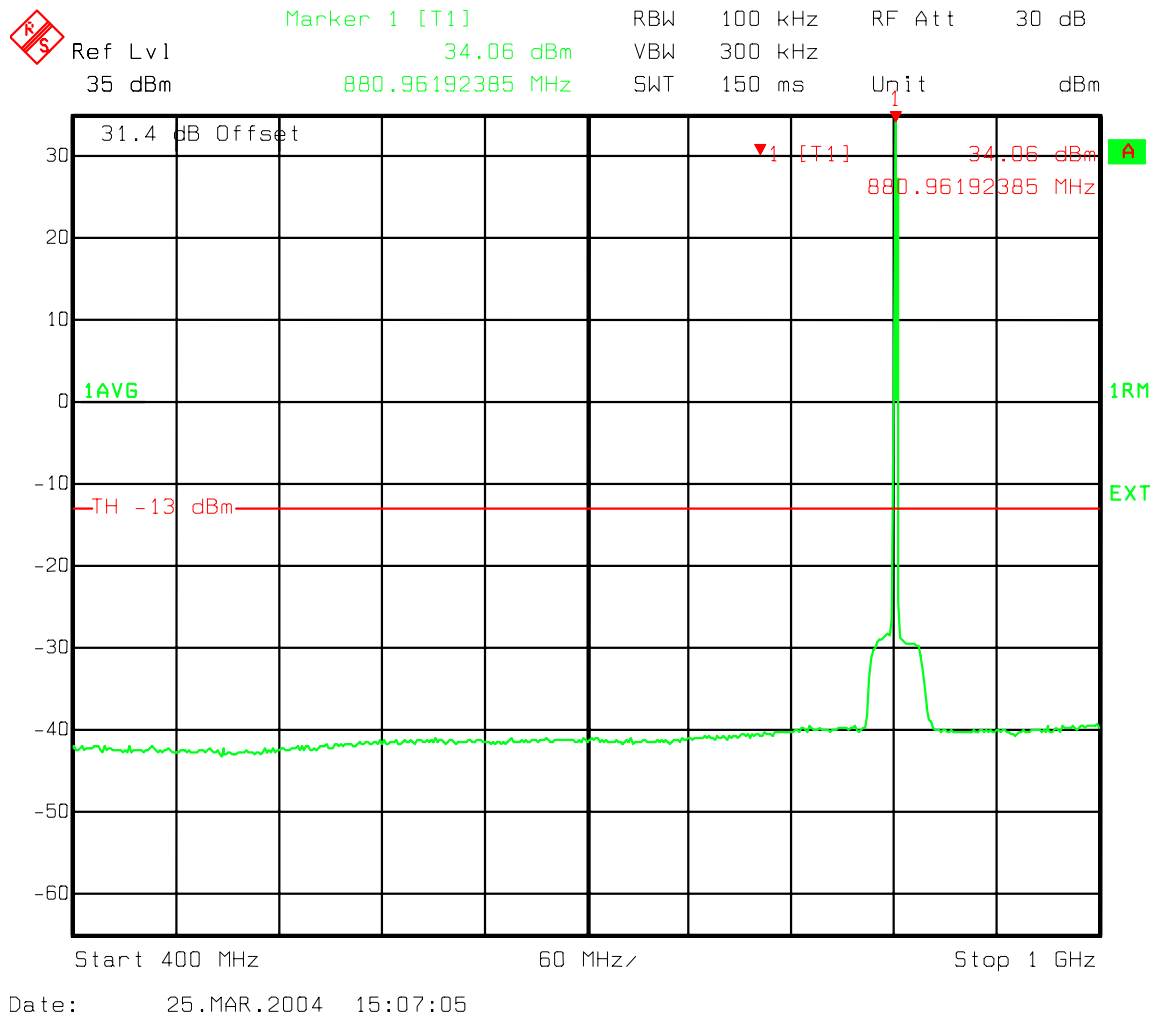
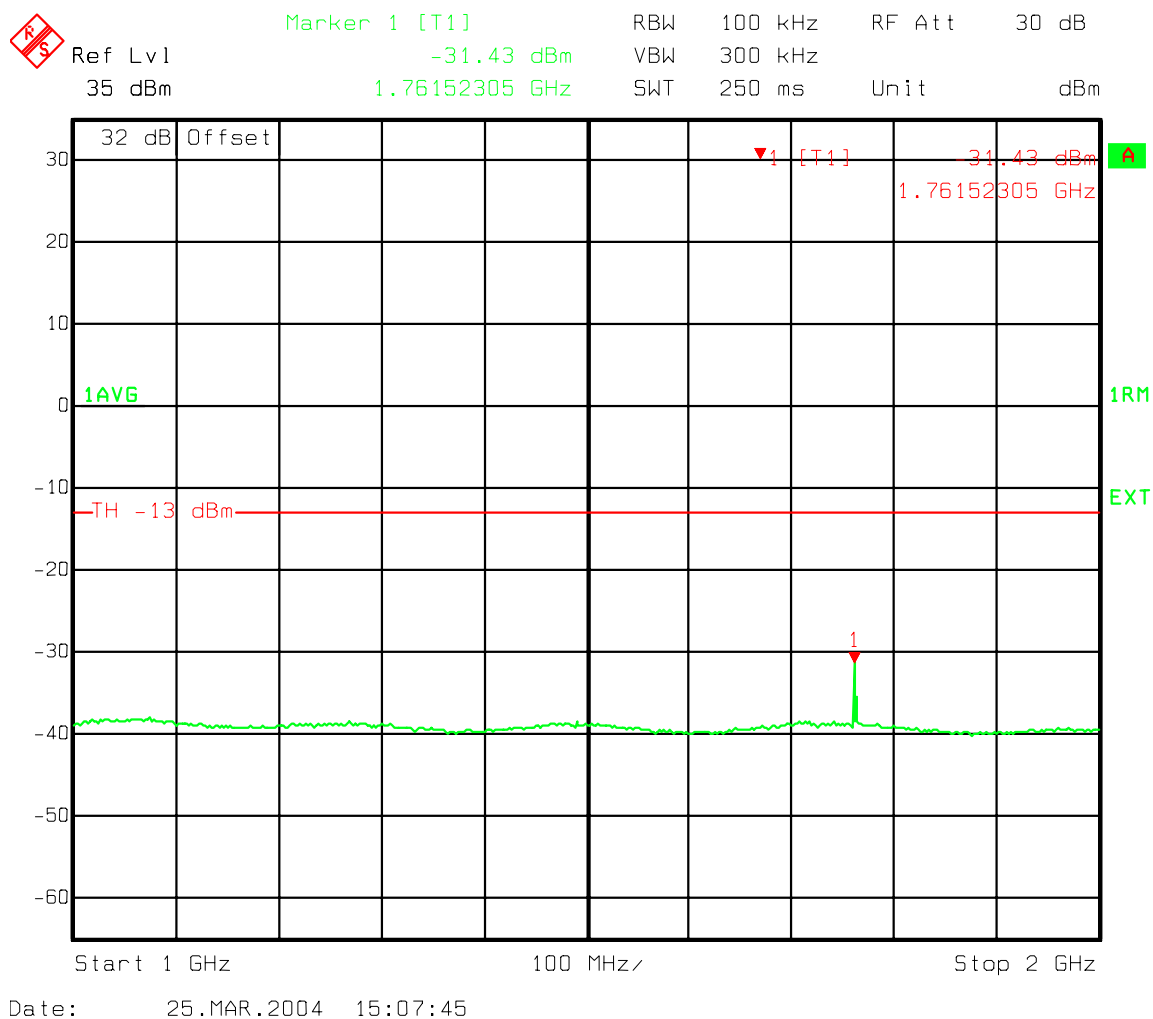


Figure 84 : One Carrier - B Band IS856 Spurious emissions 400-1000 MHz

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions 1000-2000 MHz****Figure 85 : One Carrier -B Band IS856 Spurious emissions 1000-2000 MHz**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

B Band IS856 Spurious emissions 2000-3000 MHz

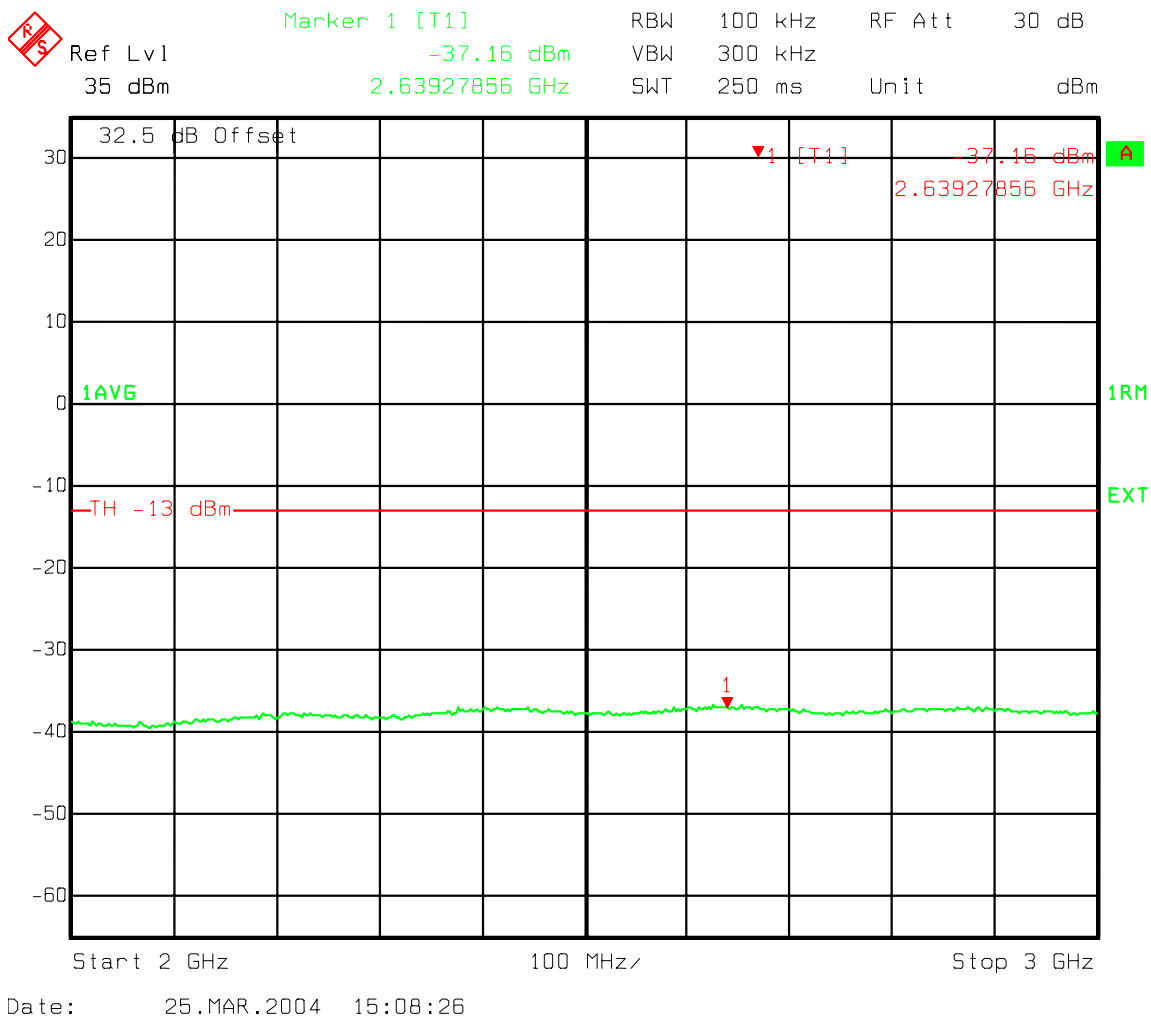
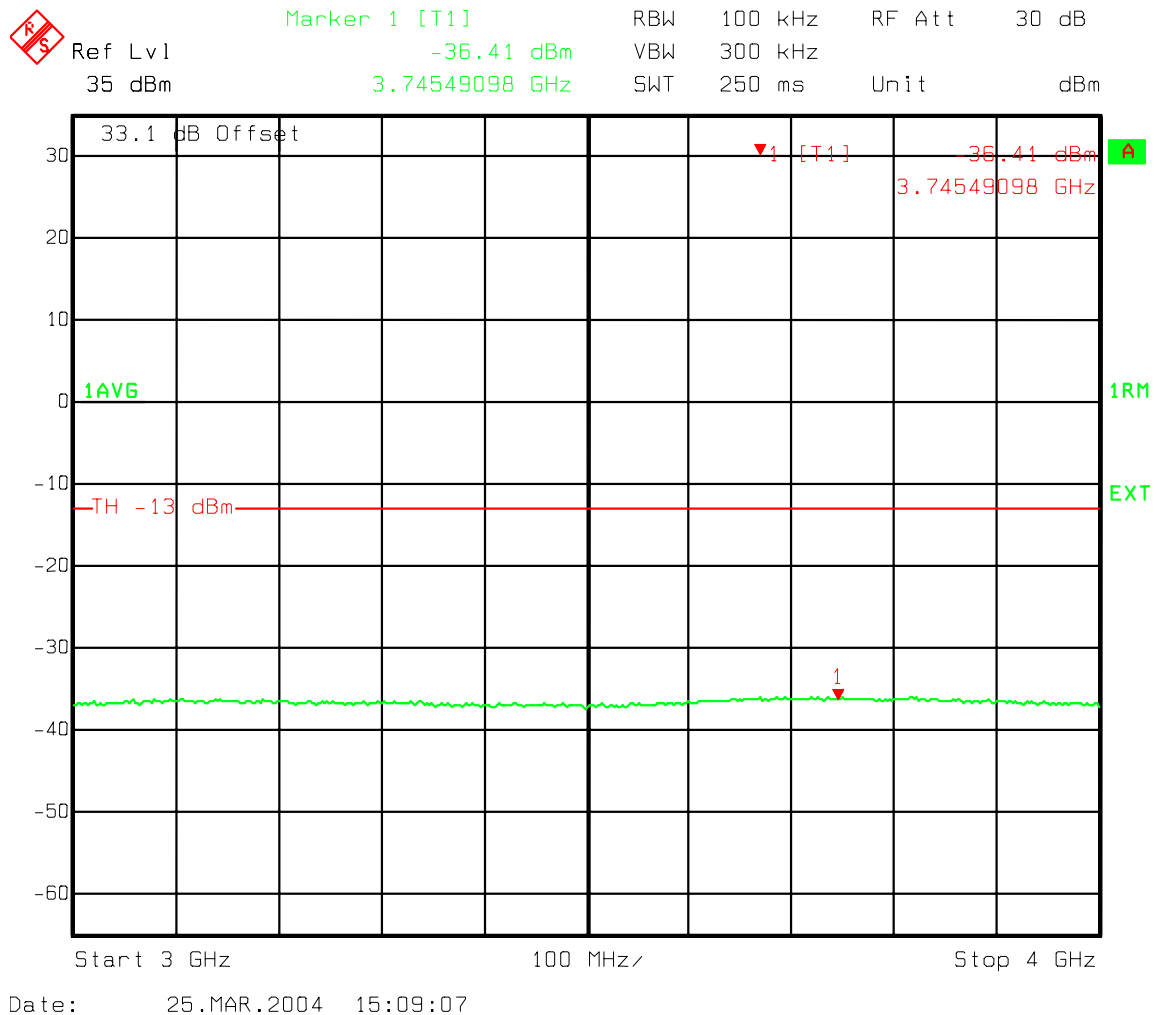


Figure 86 : One Carrier - B Band IS856 Spurious emissions 2000-3000 MHz

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions 3000-4000 MHz****Figure 87 : One Carrier - B Band IS856 Spurious emissions 3000-4000 MHz**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

B Band IS856 Spurious emissions 4000-5000 MHz

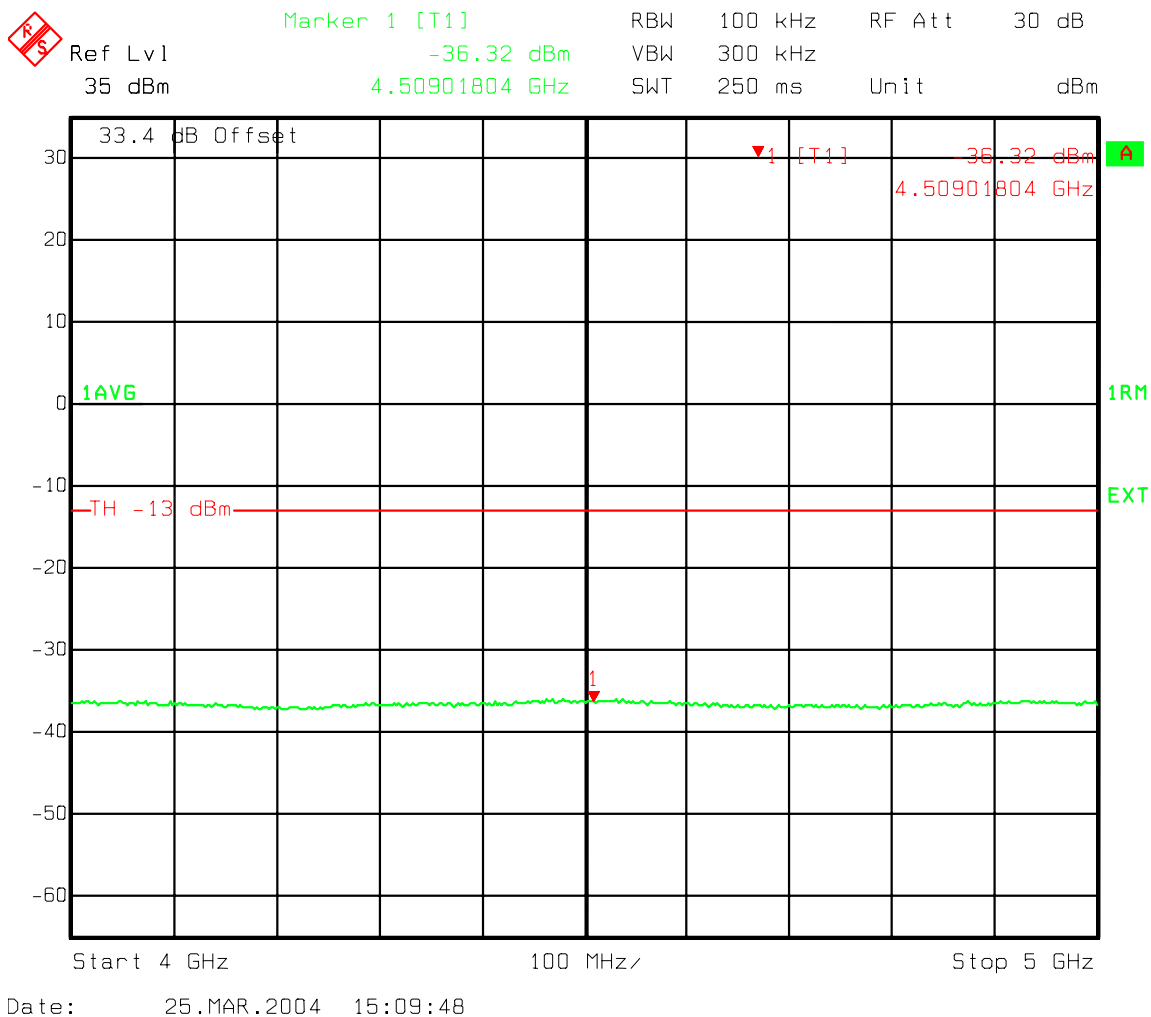
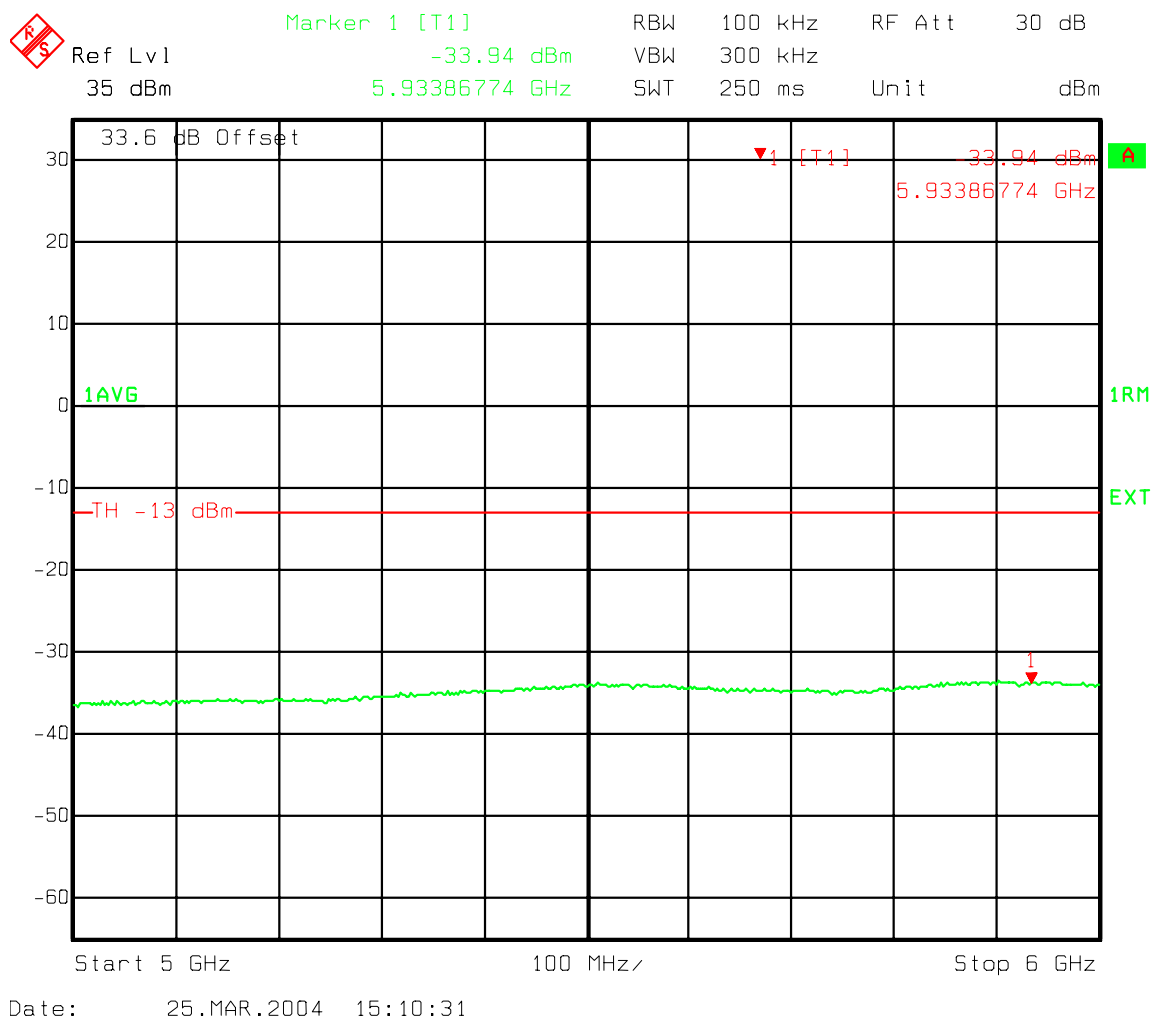


Figure 88 : One Carrier - B Band IS856 Spurious emissions 4000-5000 MHz

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions 5000-6000 MHz****Figure 89 : One Carrier - B Band IS856 Spurious emissions 5000-6000 MHz**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
 Ant. Port one Carrier Band B IS 856**

B Band IS856 Spurious emissions 6000-7000 MHz

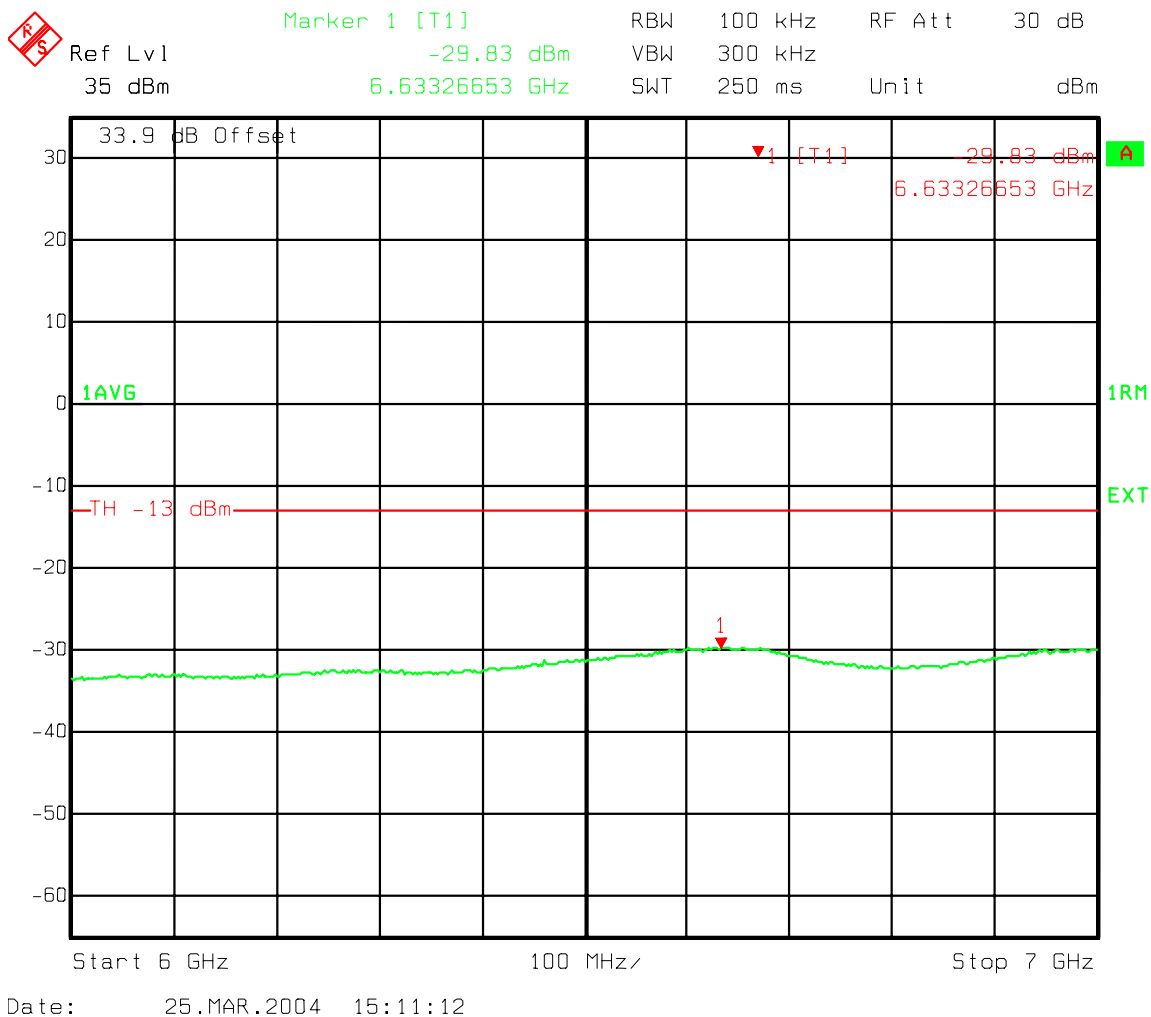
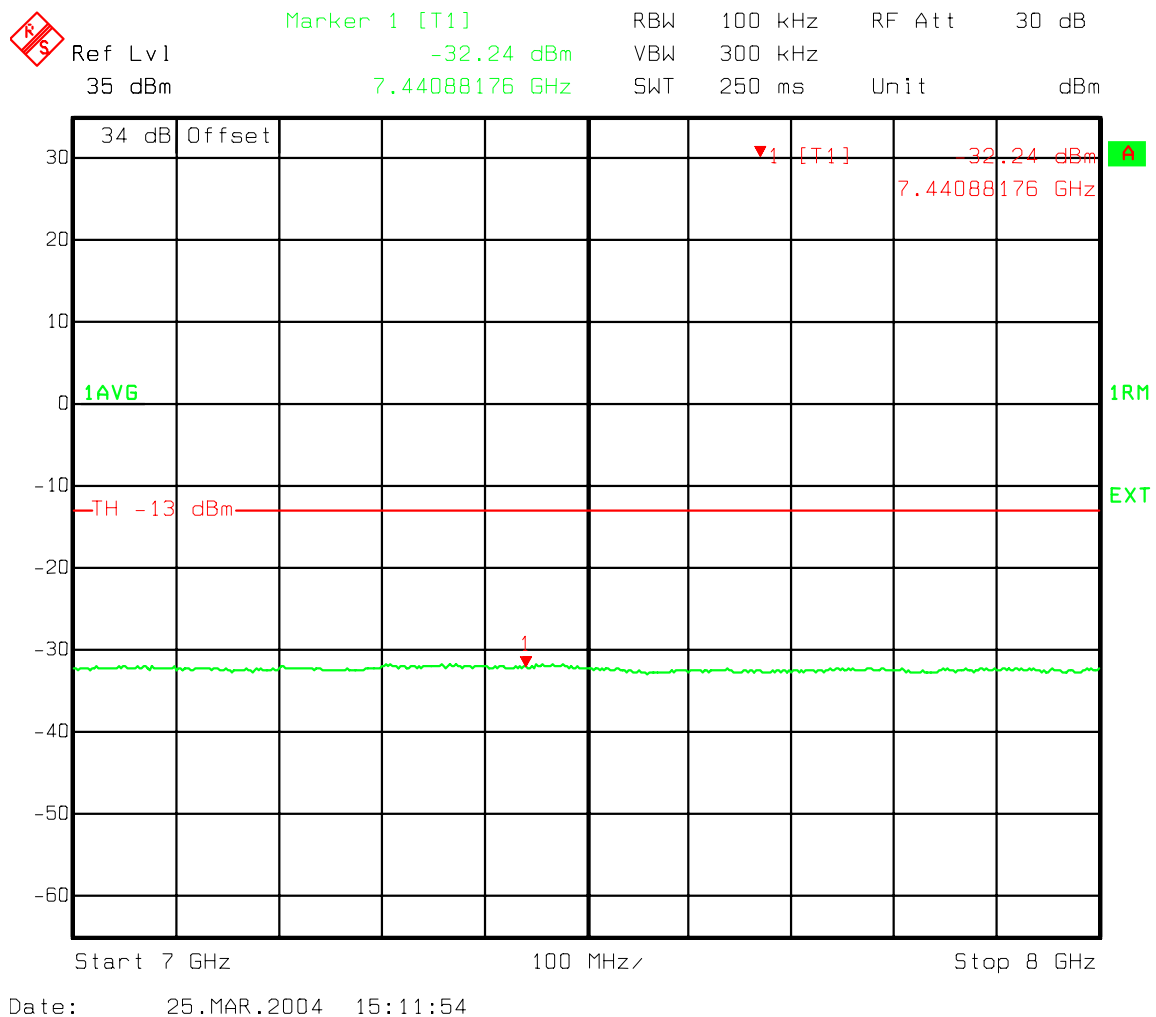


Figure 90 : One Carrier - B Band IS856 Spurious emissions 6000-7000 MHz

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions 7000-8000 MHz****Figure 91 : One Carrier - B Band IS856 Spurious emissions 7000-8000 MHz**

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856**

B Band IS856 Spurious emissions 8000-9000 MHz

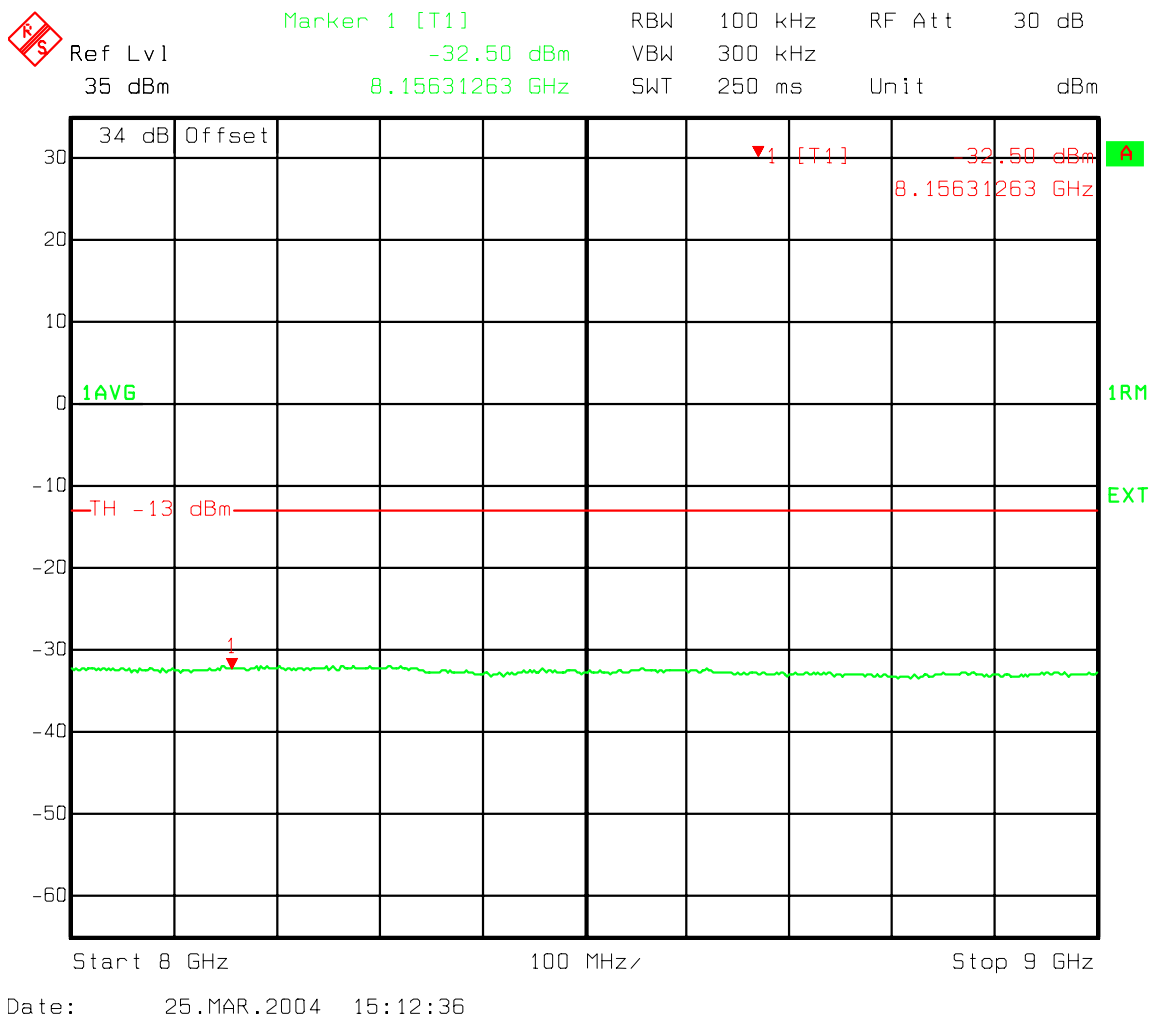
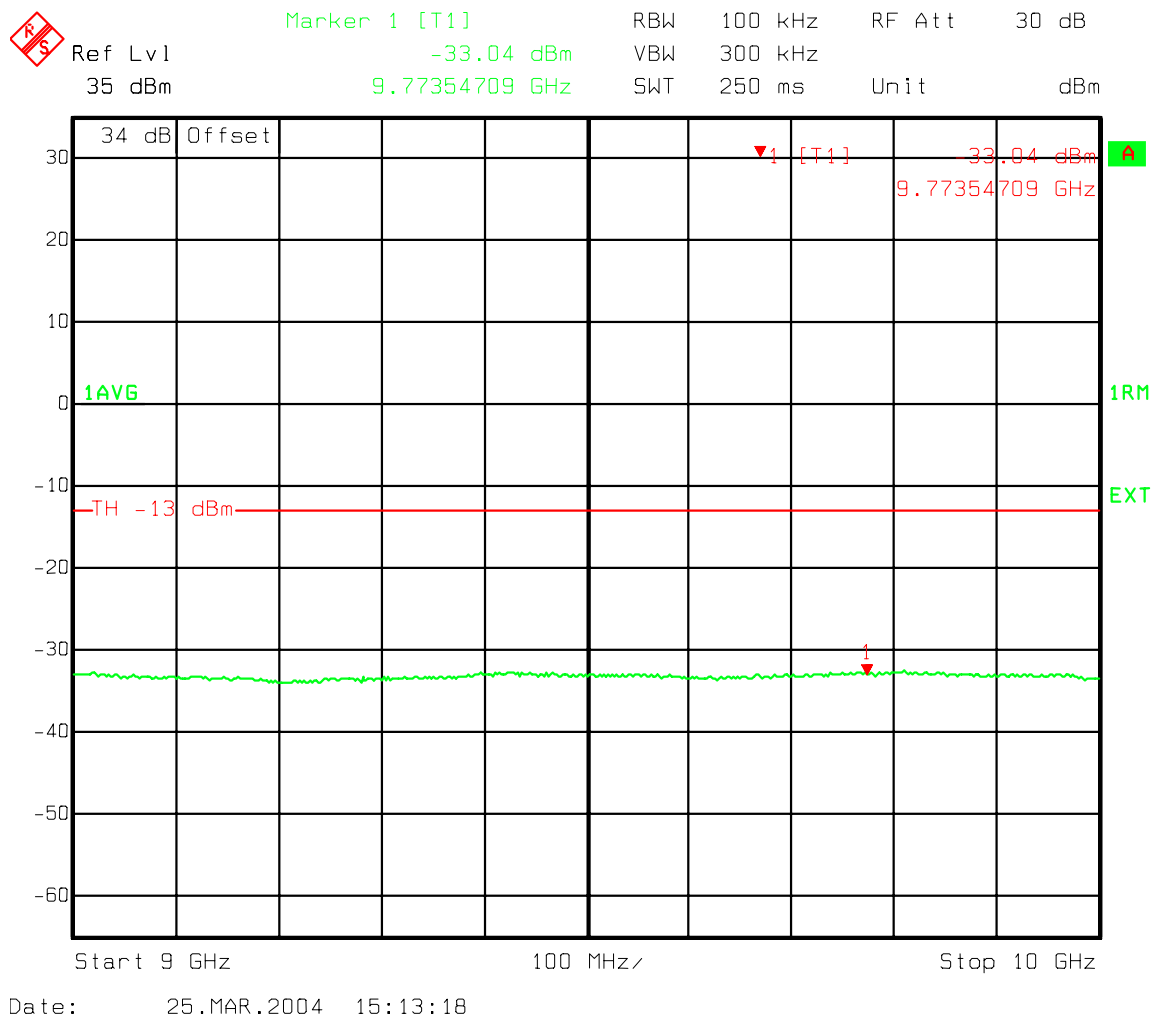


Figure 92 : One Carrier - B Band IS856 Spurious emissions 8000-9000 MHz

**Single Chan 358 and 642 Spurious Emissions at the 800 MHz MFRM1 Tornado
Ant. Port one Carrier Band B IS 856****B Band IS856 Spurious emissions 9000-10000 MHz****Figure 93 : One Carrier - B Band IS856 Spurious emissions 9000-10000 MHz**

9 Appendix E - Three Carriers IS-856 16QAM Spurious Emission

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
 MFRM1 Tornado Ant. Port Three Carrier band B IS856**

Occupied Bandwidth Ch 358, 399, 440 Band B IS856

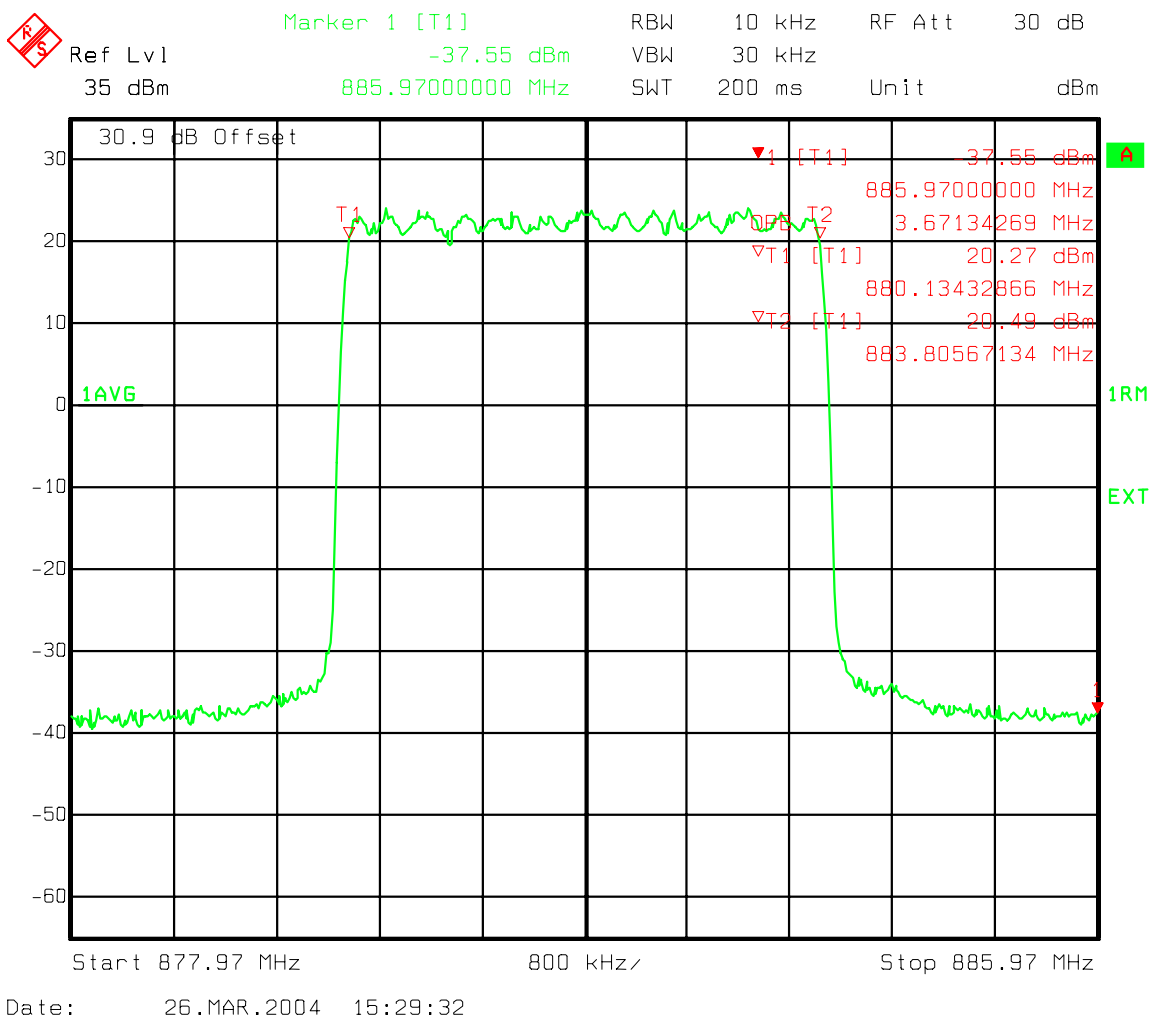


Figure 94 : Three Carriers - Occupied Bandwidth Ch 358, 399, 440

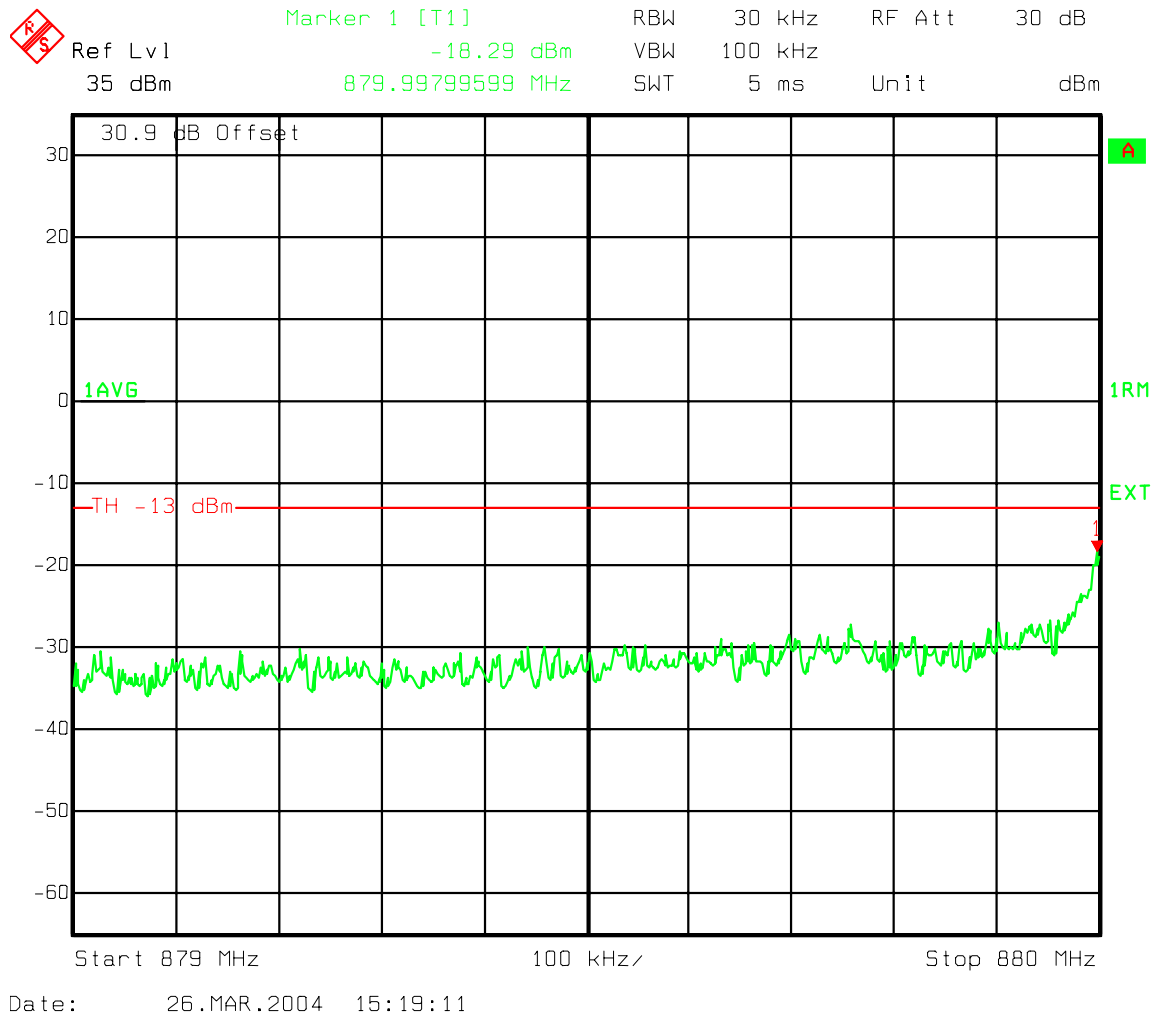
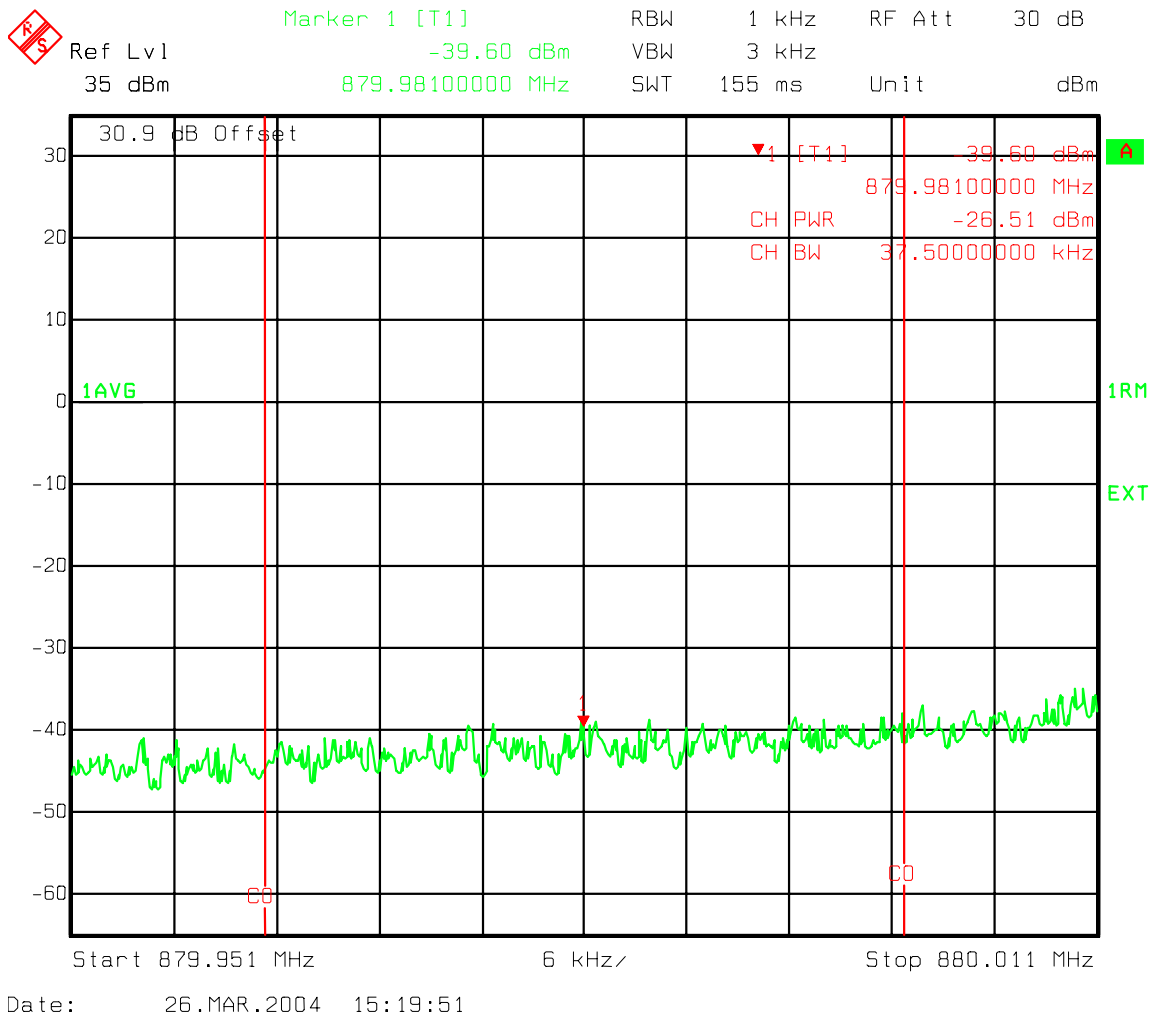
**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****B Band Ch 358, 399, 440 IS856 Adjacent 1Mhz Lower emissions 879-880MHz**

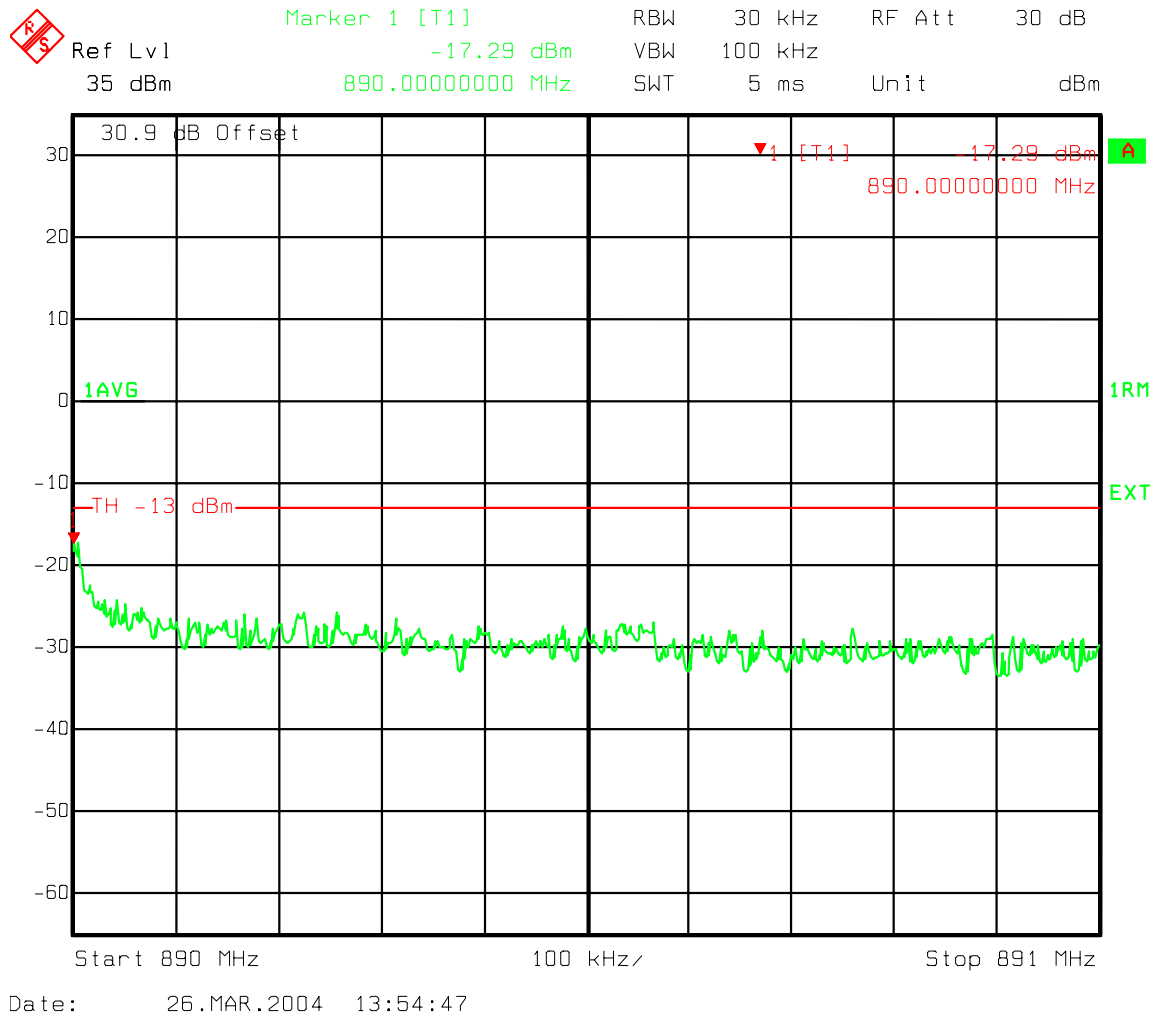
Figure 95 : Three Carriers - B Band Ch 358, 399, 440 IS856 Adjacent 1MHz Lower emissions 879-880MHz

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856**

**B Band Ch358, 399, 440 IS856 Channel power Adjacent 37.5 kHz Lower emissions
to 880 MHz**

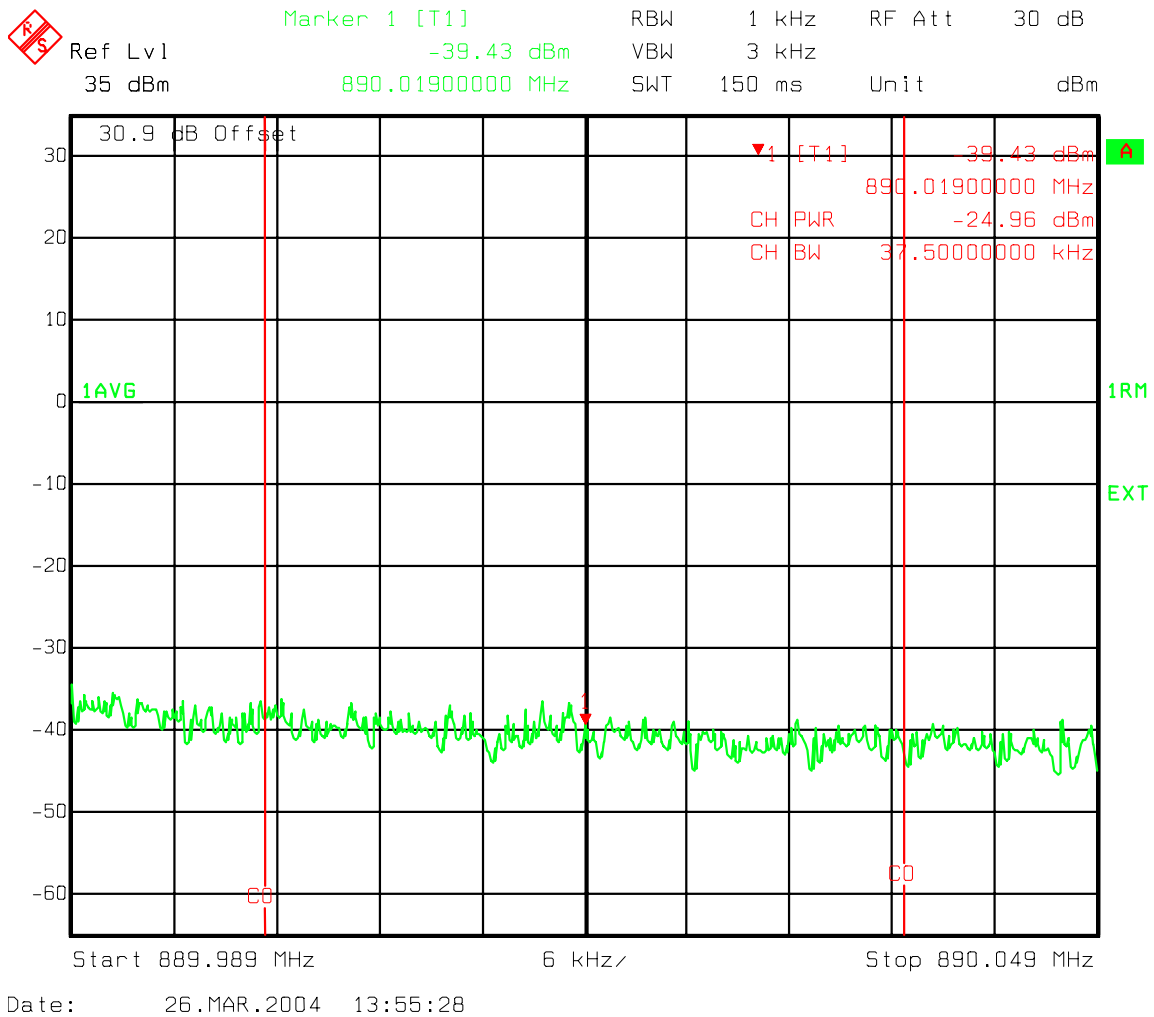


**Figure 96 : Three Carriers - Ch 358, 399, 440 IS856 Lower B Band Adjacent to outside edge
37.5kHz band Channel Power**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****Ch 560, 601, 642 Upper B Band adjacent 1MHz band emissions 890-891 MHz****Figure 97 : Three Carriers - Ch 560, 601, 642 Upper a Band adjacent 1 MHz band emissions 890-891 MHz**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
 MFRM1 Tornado Ant. Port Three Carrier band B IS856**

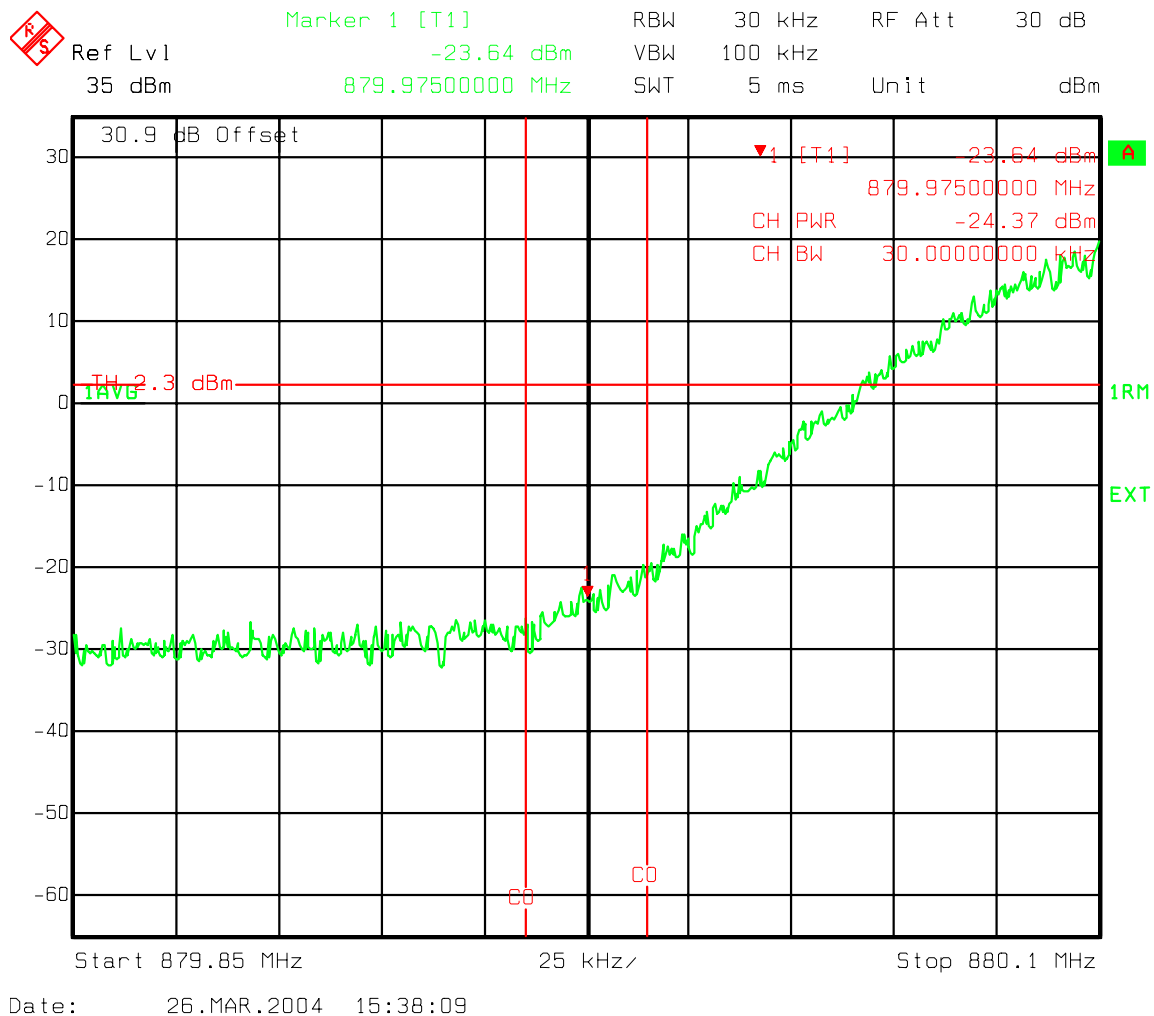
**Ch 560, 601, 642 Upper B Band adjacent to outside edge 37.5 kHz band Channel
 power**



**Figure 98 : Three Carriers - Ch 560, 601, 642 Upper B Band adjacent to outside edge 37.5
 kHz band Channel power**

Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port Three Carrier band B IS856

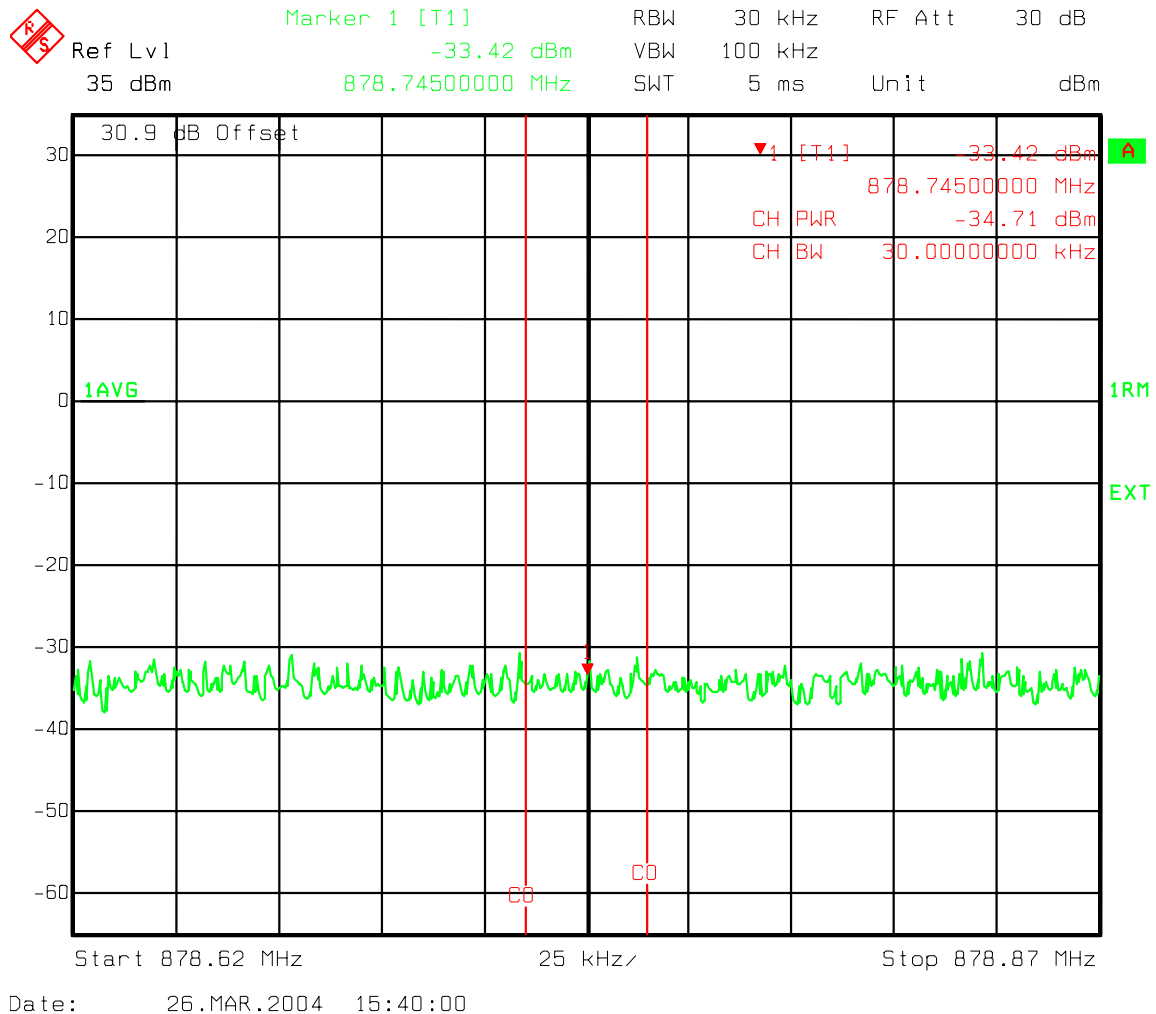
Industry Canada Lower 750 kHz offset 30kHz Chan Power Ch 358, 399, 440



**Figure 99 : Three Carriers - Industry Canada Lower 750 kHz offset 30 kHz Chan Power
Ch 358, 399, 440**

Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port Three Carrier band B IS856

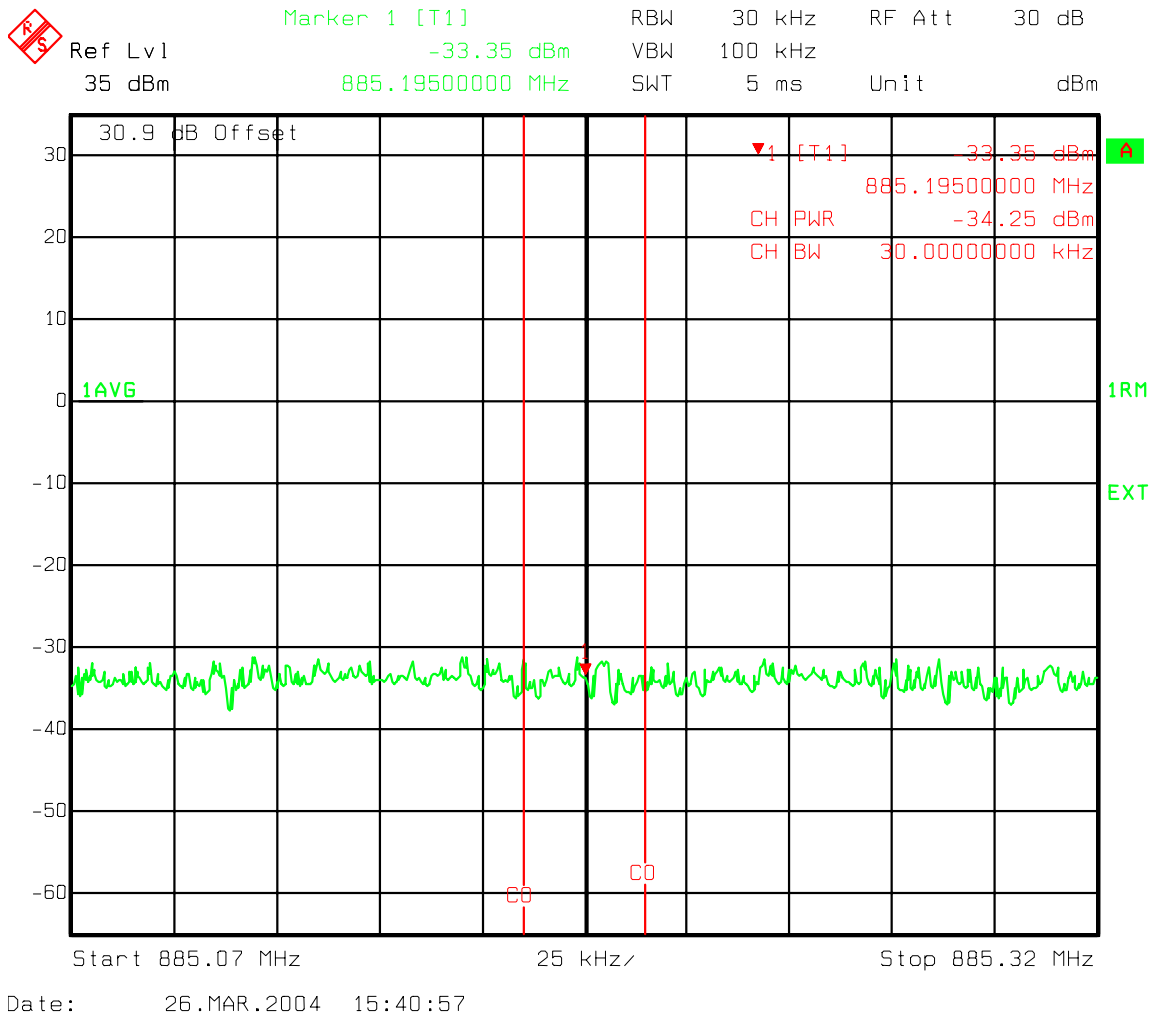
Industry Canada 1.98 MHz offset Lower 30kHz Chan Power Ch 358, 399, 440



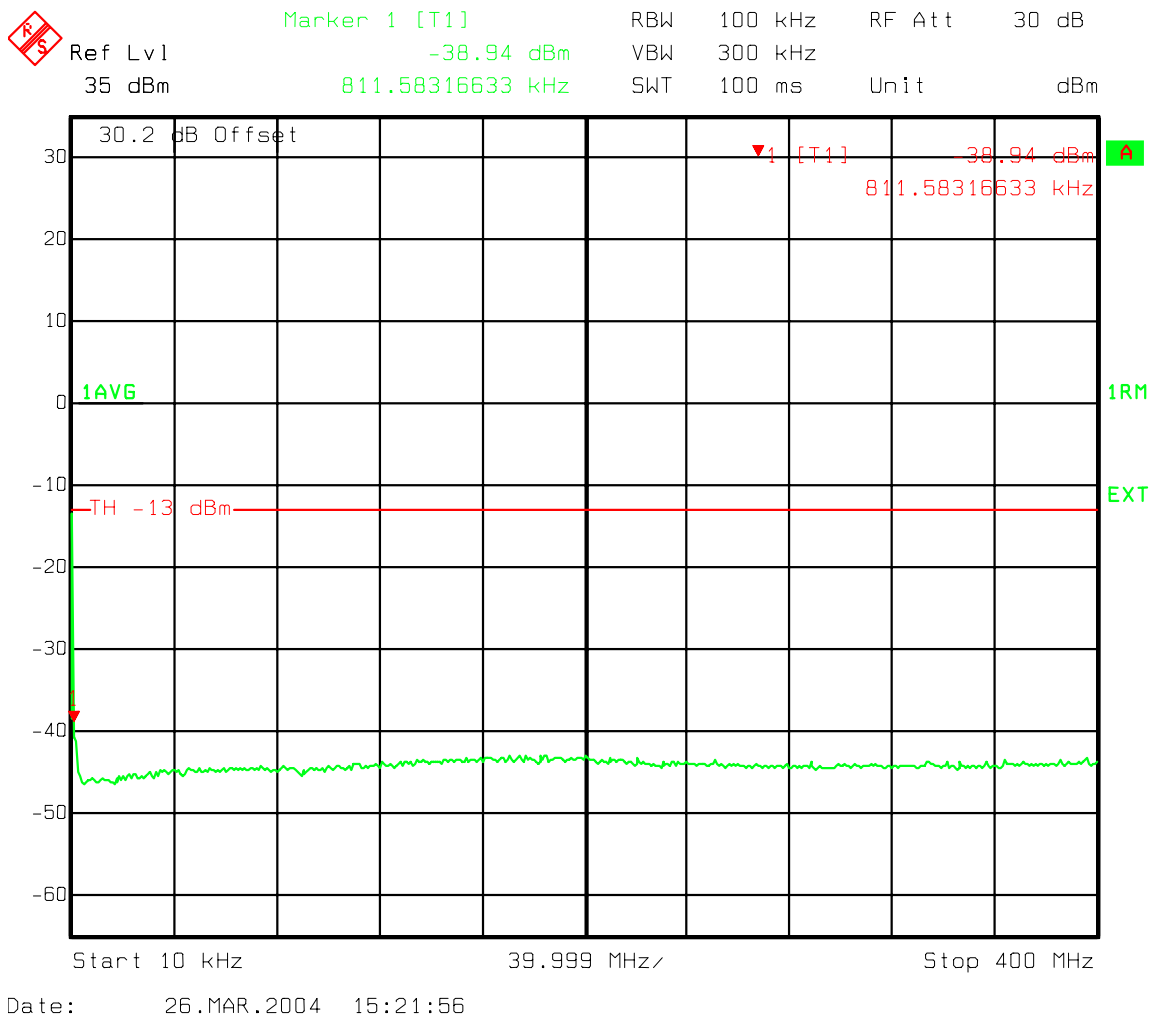
**Figure 101 : Three Carriers - Industry Canada 1.98 MHz offset Lower 30 kHz Chan Power
Ch 358, 399, 440**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856**

Industry Canada 1.98 MHz offset Upper 30kHz Chan Power Ch 358, 399, 440

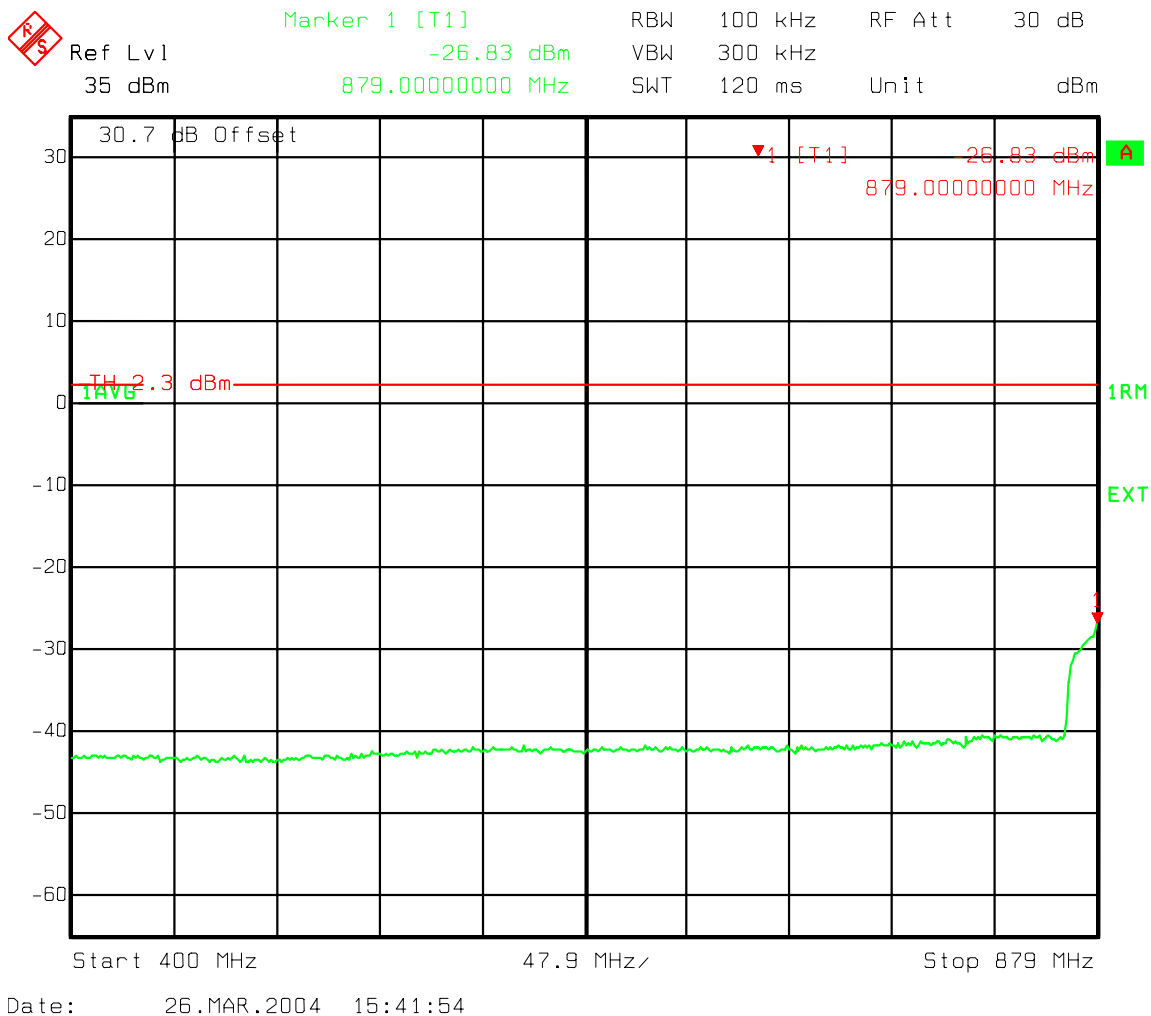


**Figure 102 : Three Carriers - Industry Canada 1.98 MHz offset Upper 30 kHz Chan Power
Ch 358, 399, 440**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****B Band IS856 Spurious emissions 10kHz-400 MHz****Figure 103 : Three Carriers - B Band IS856 Spurious emissions 10kHz-400 MHz**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
 MFRM1 Tornado Ant. Port Three Carrier band B IS856**

B Band IS856 Spurious emissions 400MHz to Lower 1MHz Band Edge



**Figure 104 : Three Carriers - B Band IS856 Spurious emissions 400 MHz to Lower 1 MHz
 Band Edge**

Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port Three Carrier band B IS856

B Band IS856 Spurious emissions Upper 1MHz Band Edge to 1GHz

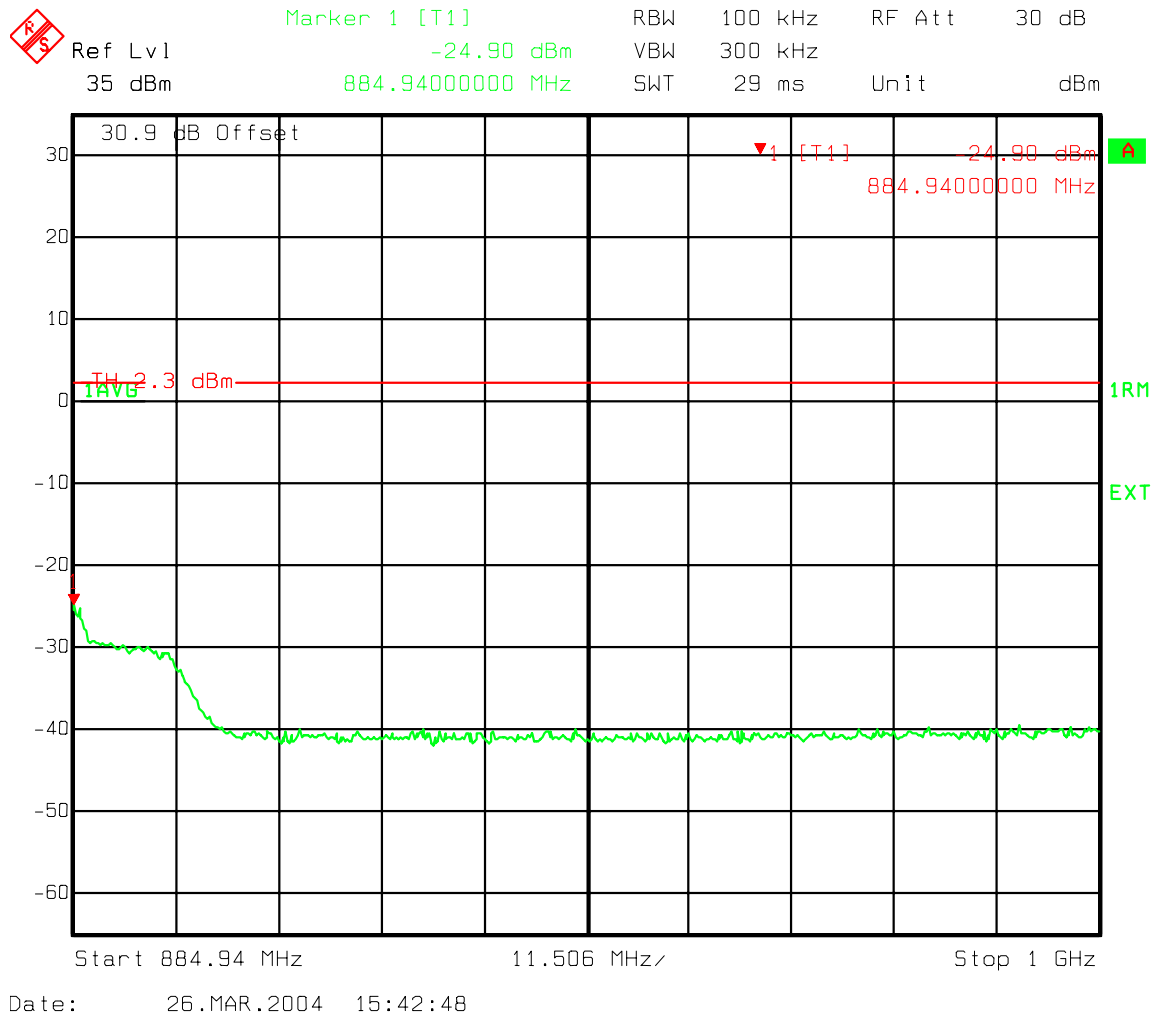


Figure 105 : Three Carriers - B Band IS856 Spurious emissions Upper 1 MHz Band Edge to 1 GHz

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856**

B Band IS856 Spurious emissions 400-1000 MHz

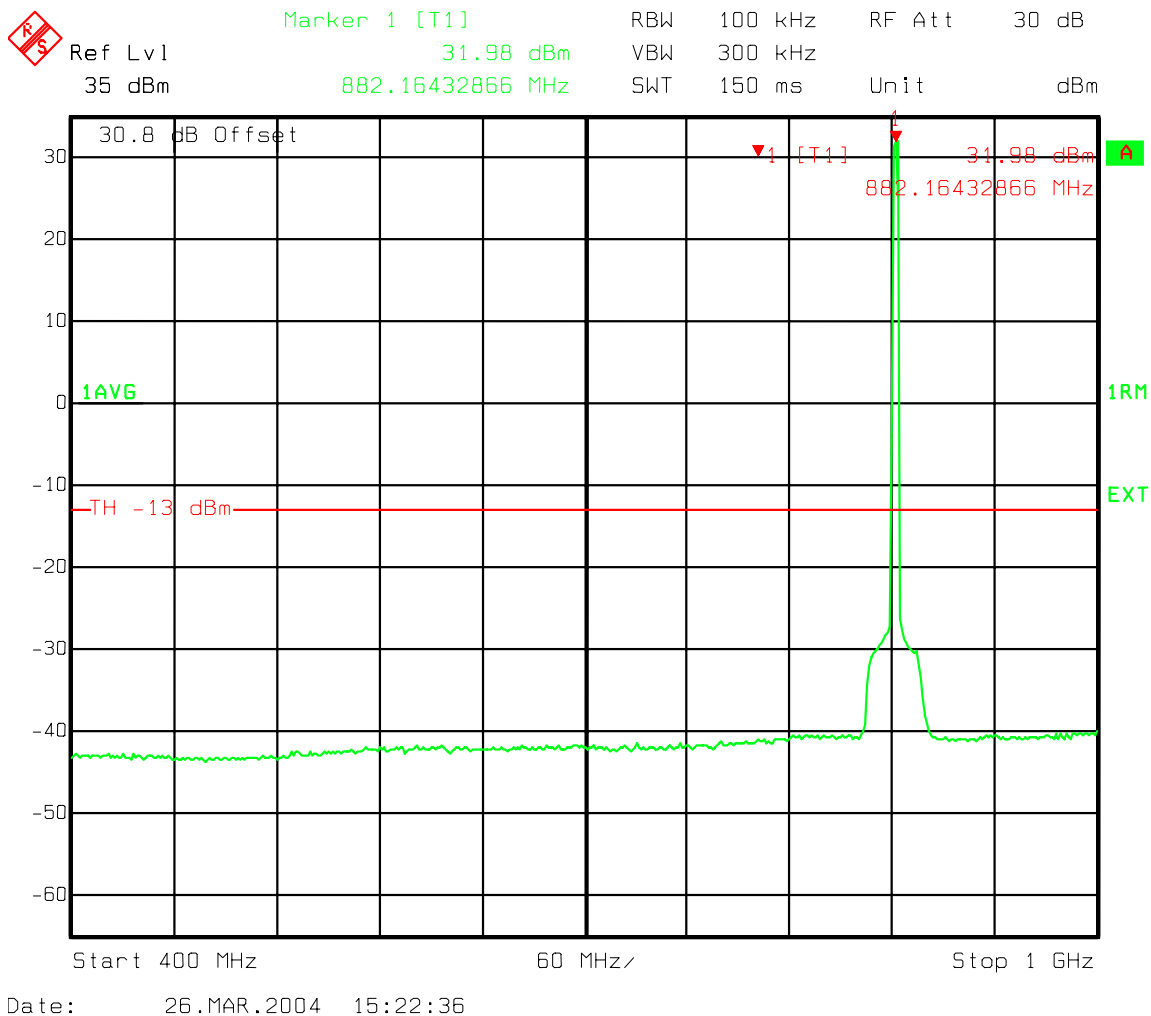
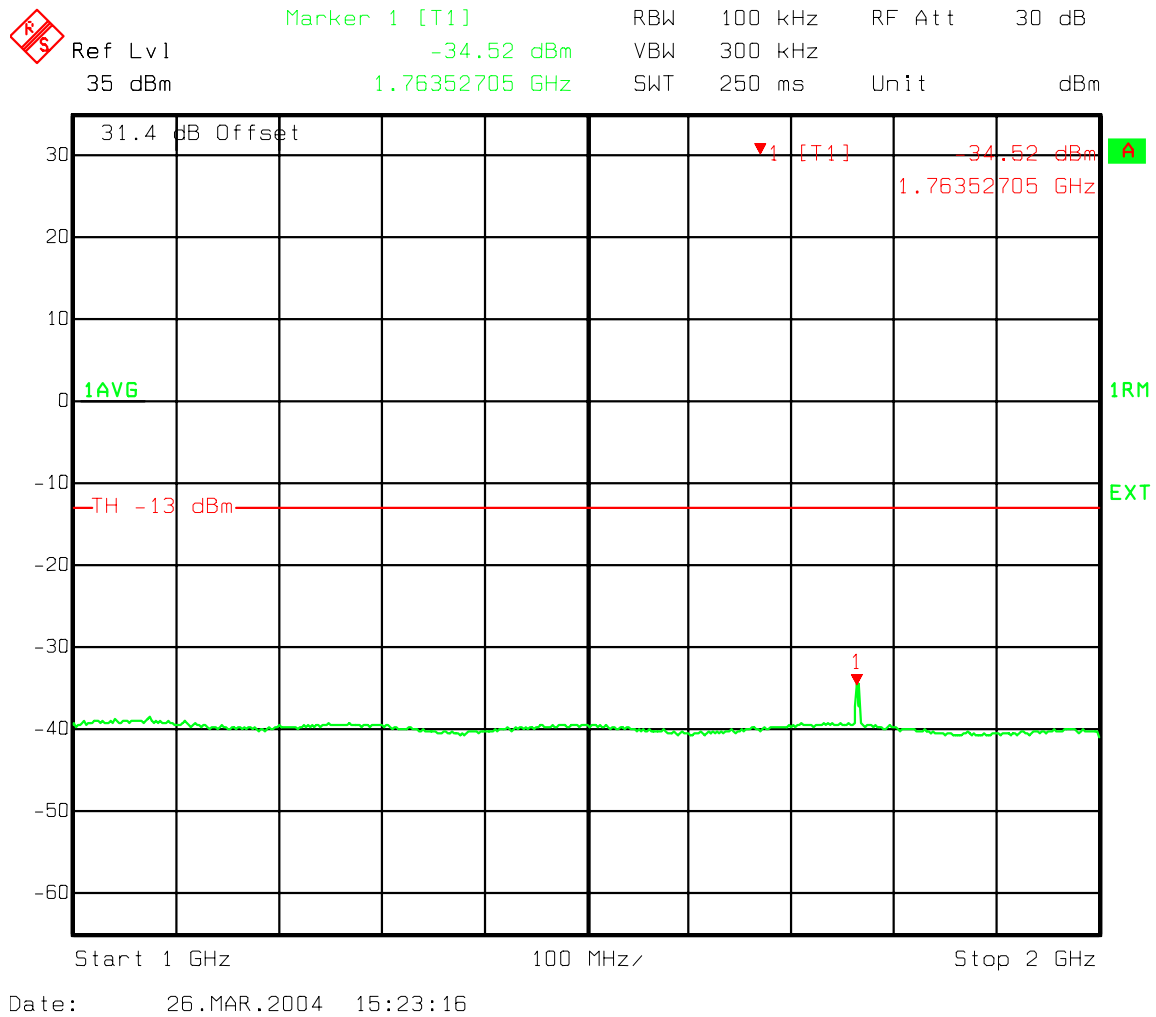


Figure 106 : Three Carriers - B Band IS856 Spurious emissions 400-1000 MHz

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****B Band IS856 Spurious emissions 1000-2000 MHz****Figure 107 : Three Carriers - B Band IS856 Spurious emissions 1000-2000 MHz**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
 MFRM1 Tornado Ant. Port Three Carrier band B IS856**

B Band IS856 Spurious emissions 2000-3000 MHz

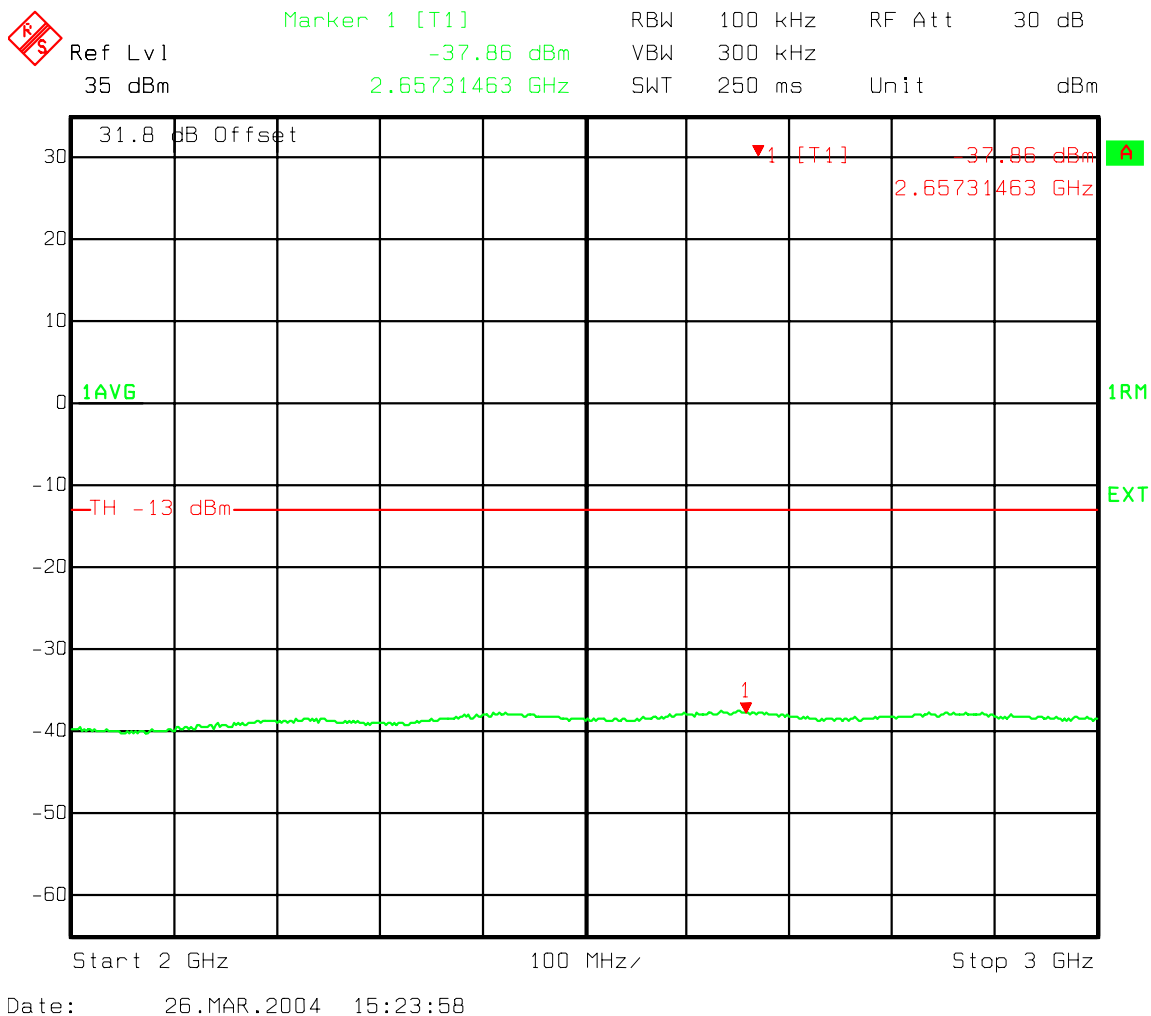
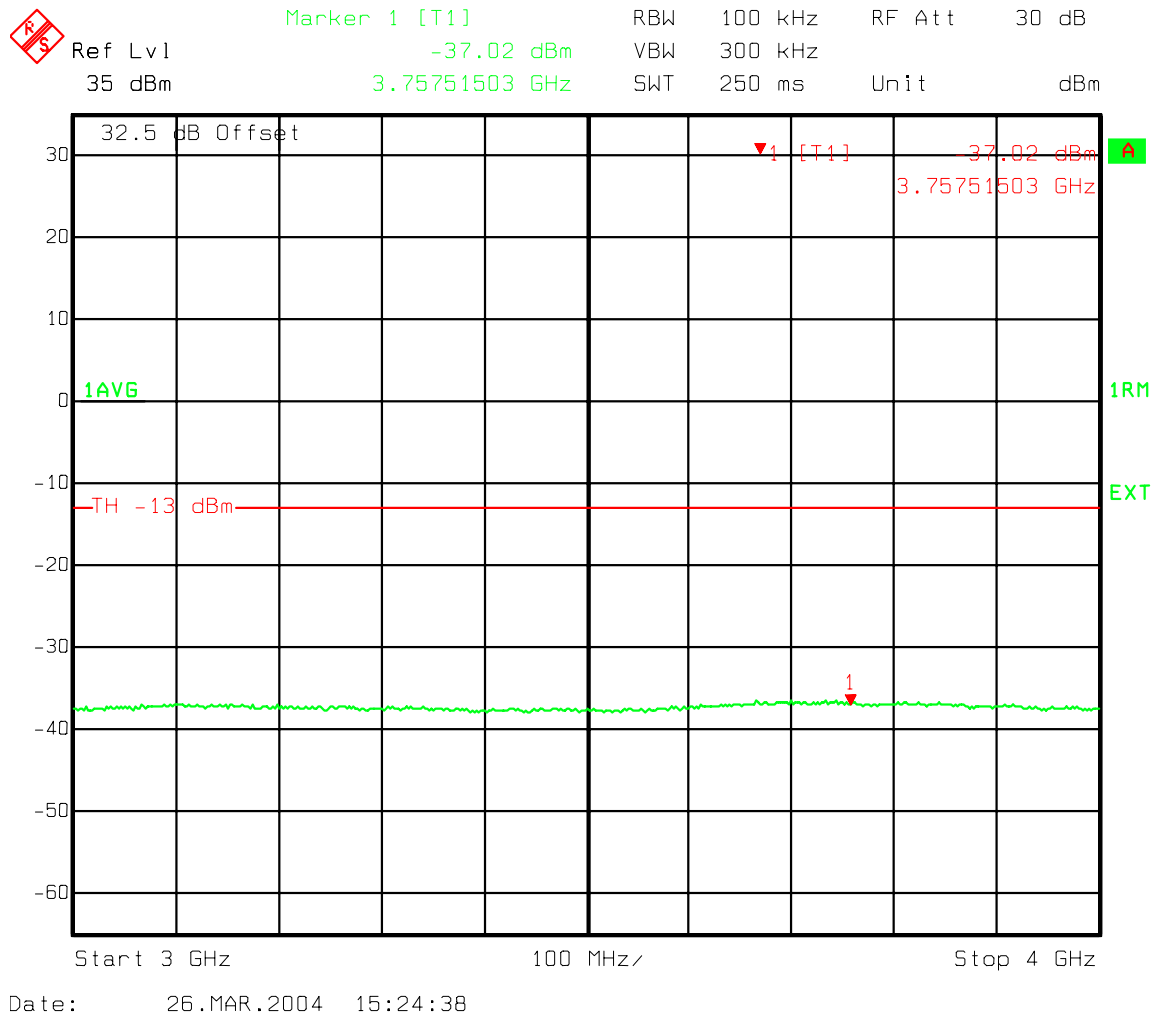


Figure 108 : Three Carriers - B Band IS856 Spurious emissions 2000-3000 MHz

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****B Band IS856 Spurious emissions 3000-4000 MHz****Figure 109 : Three Carriers - B Band IS856 Spurious emissions 3000-4000 MHz**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
 MFRM1 Tornado Ant. Port Three Carrier band B IS856**

B Band IS856 Spurious emissions 4000-5000 MHz

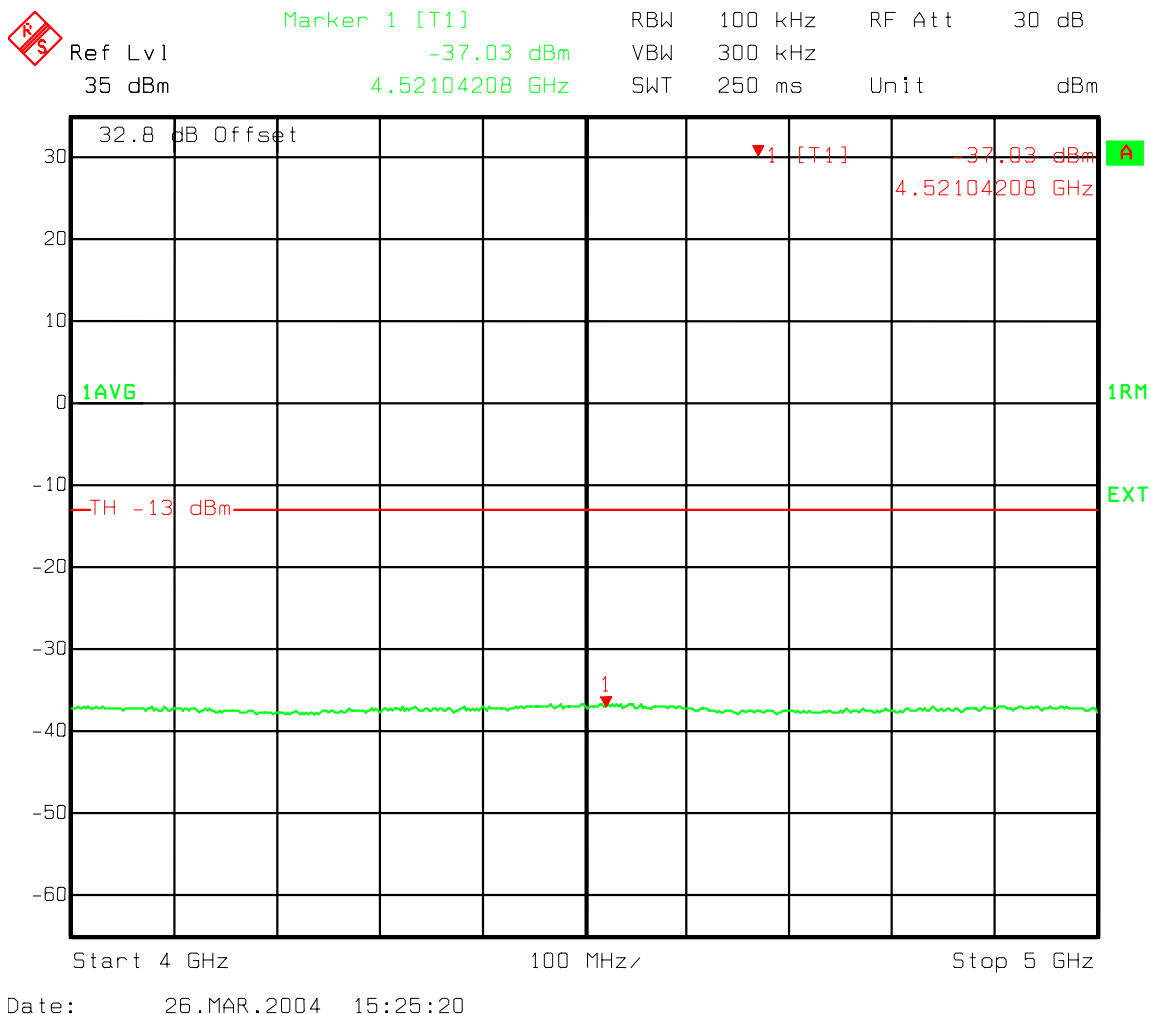
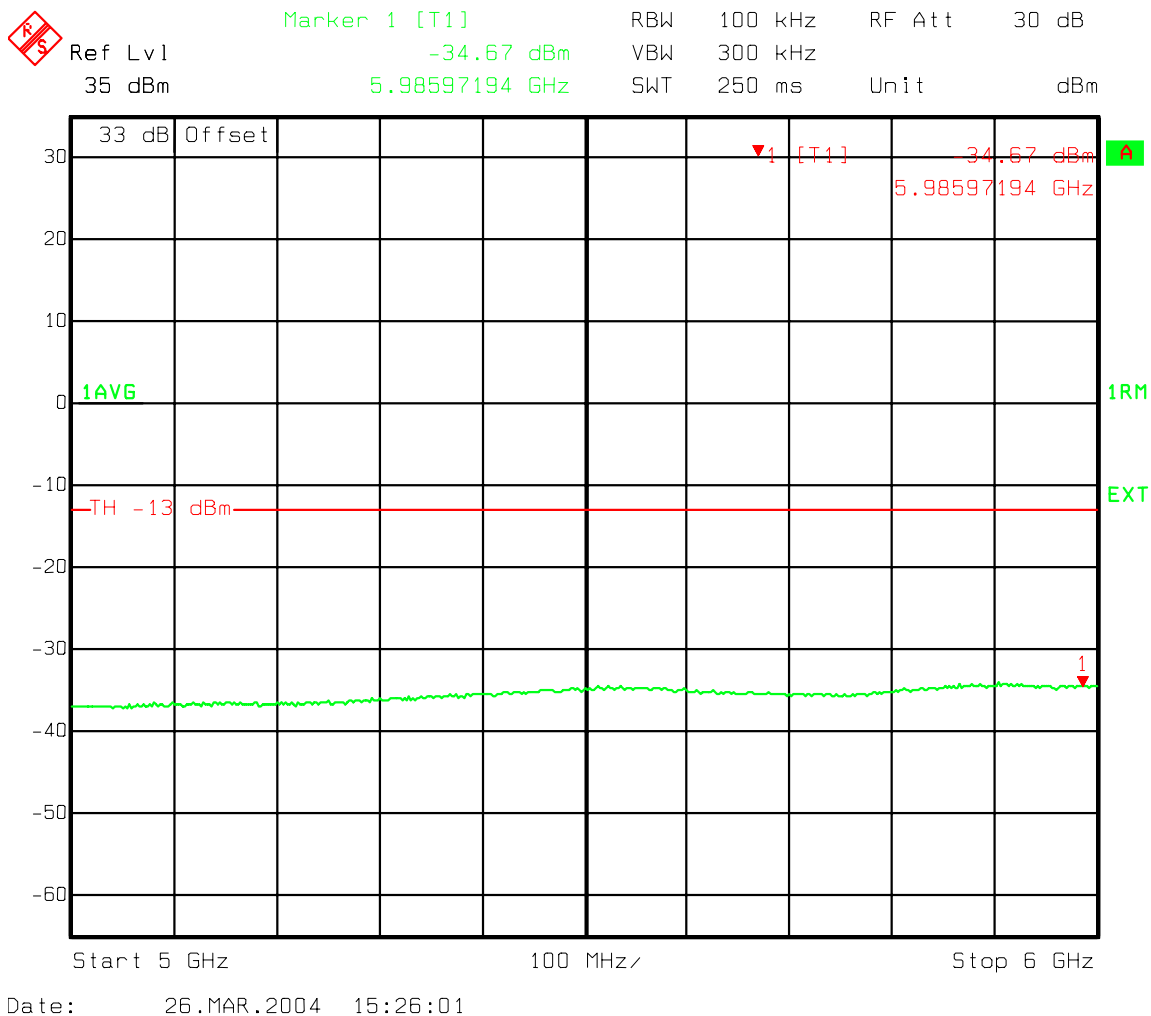


Figure 110 : Three Carriers - B Band IS856 Spurious emissions 4000-5000 MHz

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****B Band IS856 Spurious emissions 5000-6000 MHz****Figure 111 : Three Carriers - B Band IS856 Spurious emissions 5000-6000 MHz**

Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port Three Carrier band B IS856

B Band IS856 Spurious emissions 6000-7000 MHz

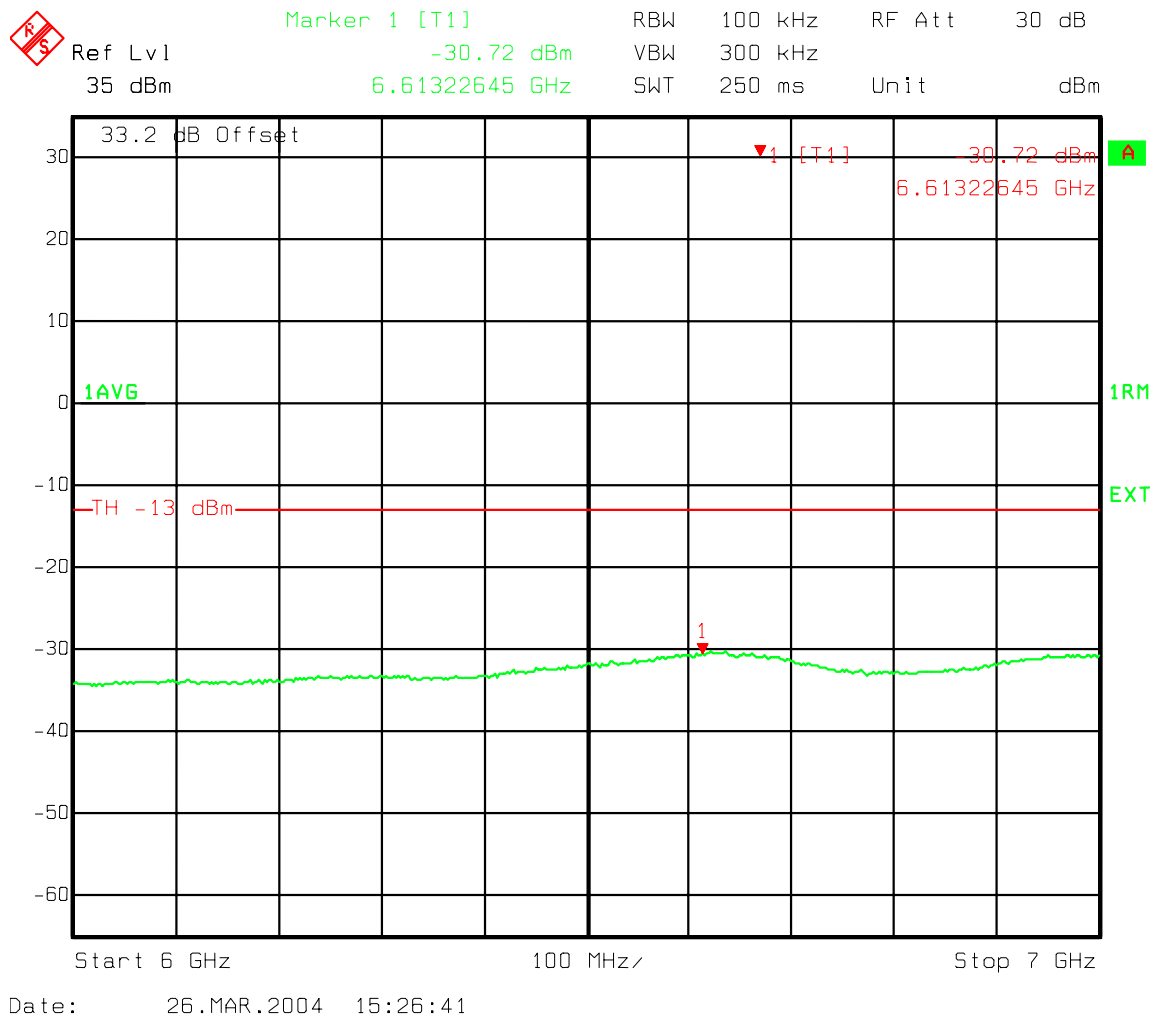
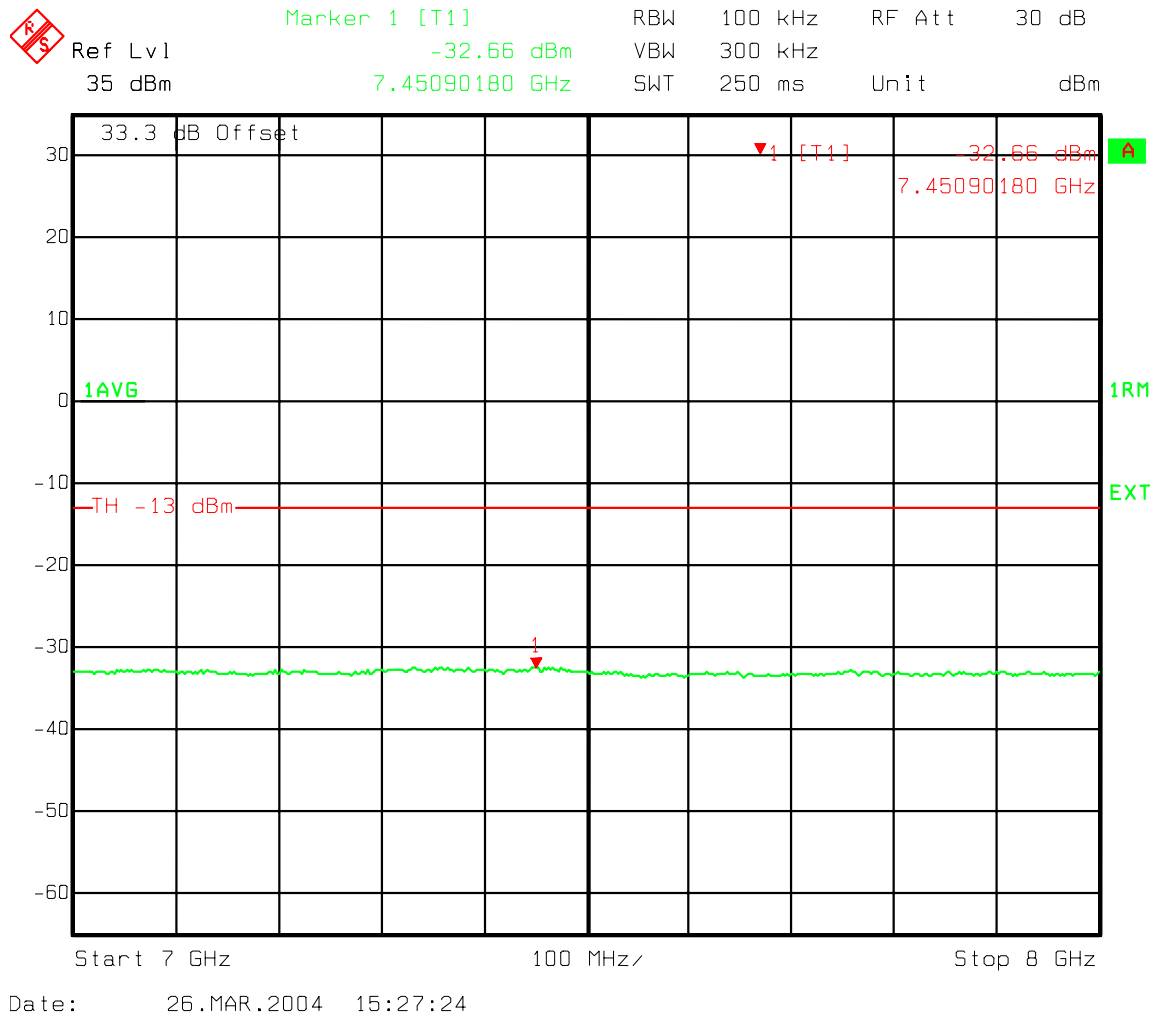


Figure 112 : Three Carriers - B Band IS856 Spurious emissions 6000-7000 MHz

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
MFRM1 Tornado Ant. Port Three Carrier band B IS856****B Band IS856 Spurious emissions 7000-8000 MHz****Figure 113 : Three Carriers - B Band IS856 Spurious emissions 7000-8000 MHz**

**Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz
 MFRM1 Tornado Ant. Port Three Carrier band B IS856**

B Band IS856 Spurious emissions 8000-9000 MHz

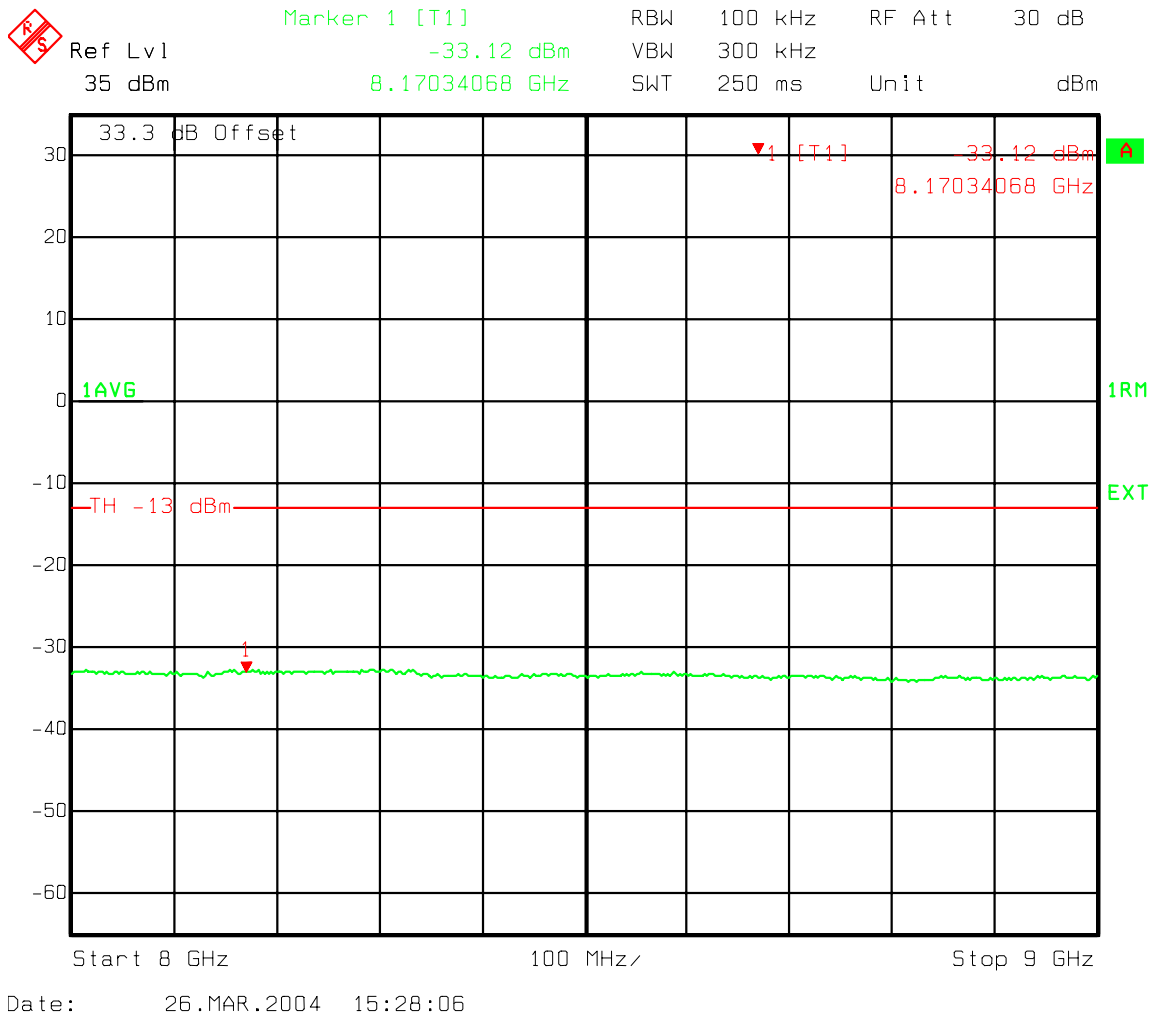


Figure 114 : Three Carriers - B Band IS856 Spurious emissions 8000-9000 MHz

Three Channel 358, 399, 440 and 560, 601, 642 Spurious Emissions at the 800 MHz MFRM1 Tornado Ant. Port Three Carrier band B IS856

B Band IS856 Spurious emissions 9000-10000 MHz

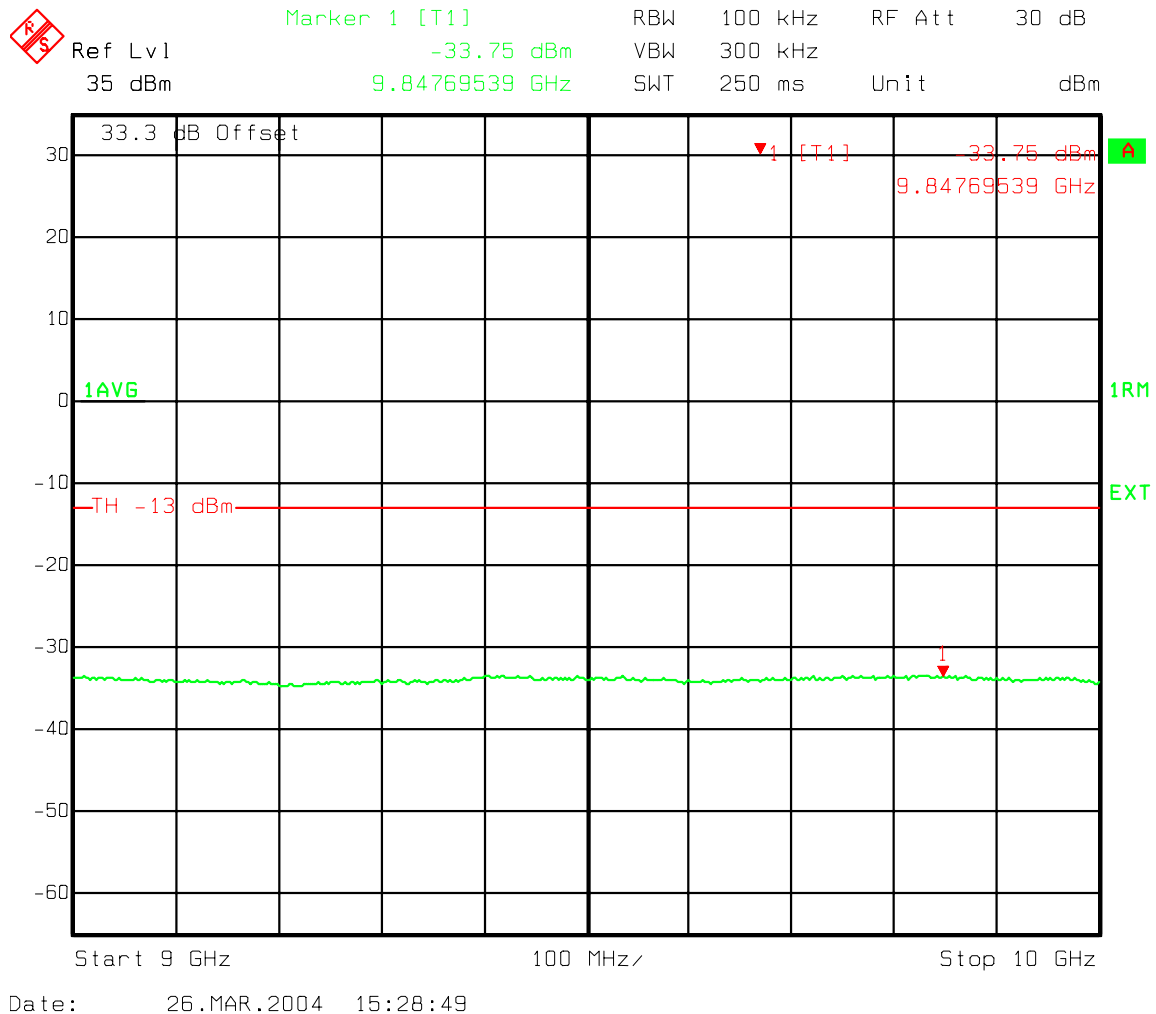


Figure 115 : Three Carriers - B Band IS856 Spurious emissions 9000-10000 MHz

10 Appendix F - Combined Three Carriers: 2-IS856 16QAM (358,399), 1-IS95 (440) Spurious Emission

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Occupied Bandwidth Ch 358, 399, 440 Band B

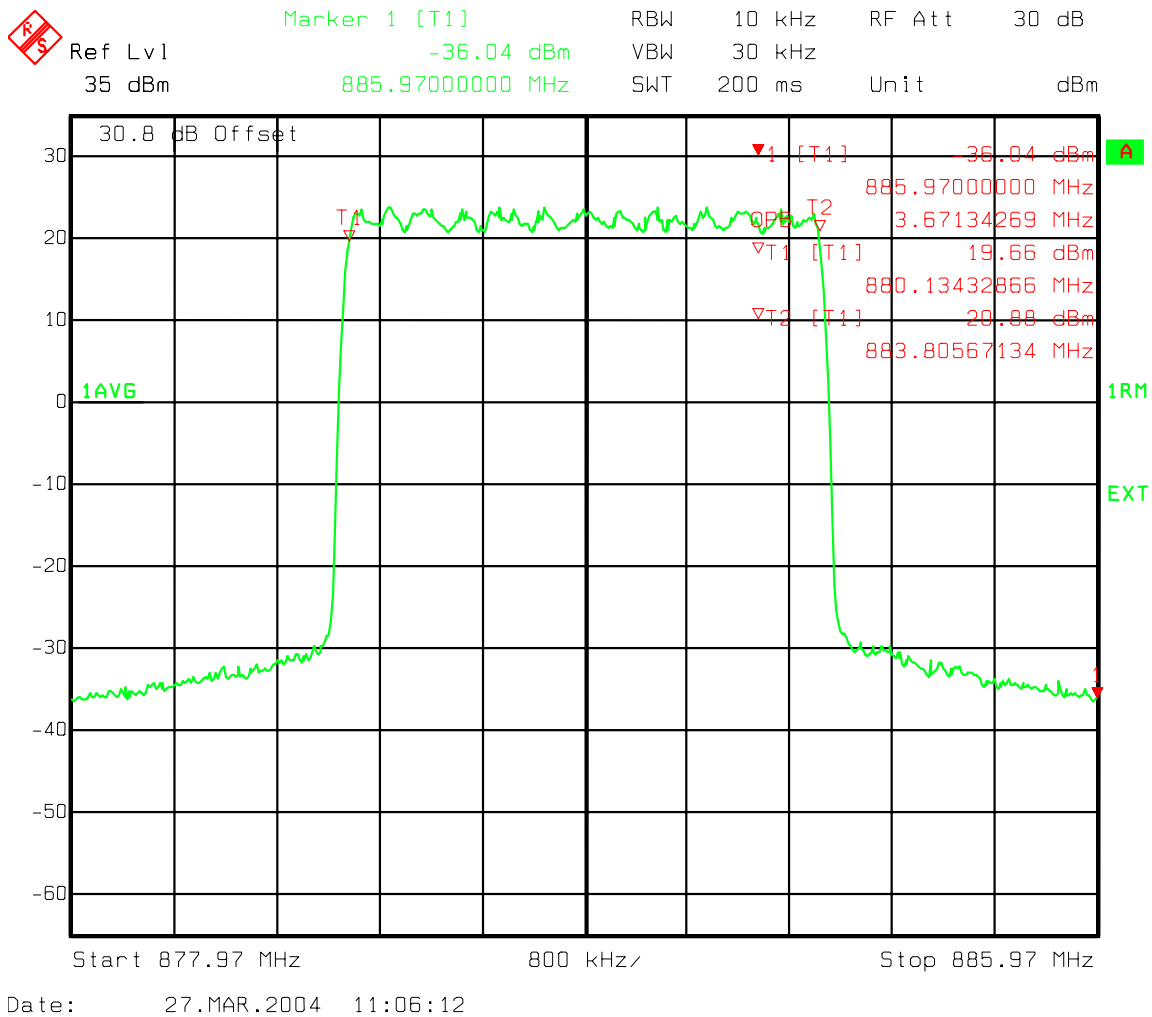


Figure 116 : Combined Three Carriers - Occupied Bandwidth Ch 358, 399, 440

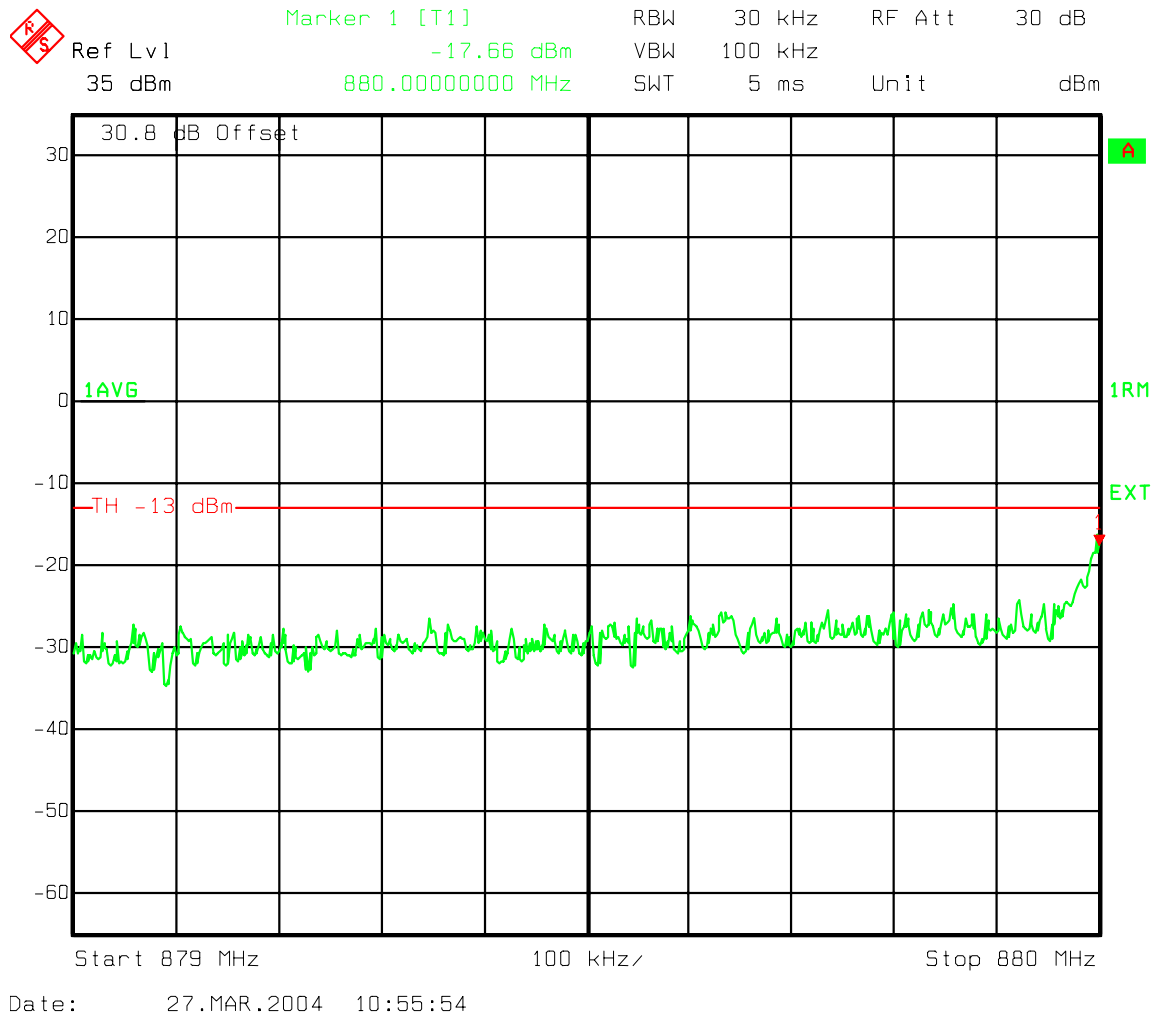
Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B**B Band Ch 358, 399, 440 IS856/IS95 Adjacent 1Mhz Lower emissions 879-880MHz**

Figure 117 : Combined Three Carriers - B Band Ch 358, 399 (IS856), 440 IS95 Adjacent 1MHz Lower emissions 879-880MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band Ch358, 399, 440 IS856/IS95 Channel power Adjacent 37.5 kHz Lower emissions to 880 MHz

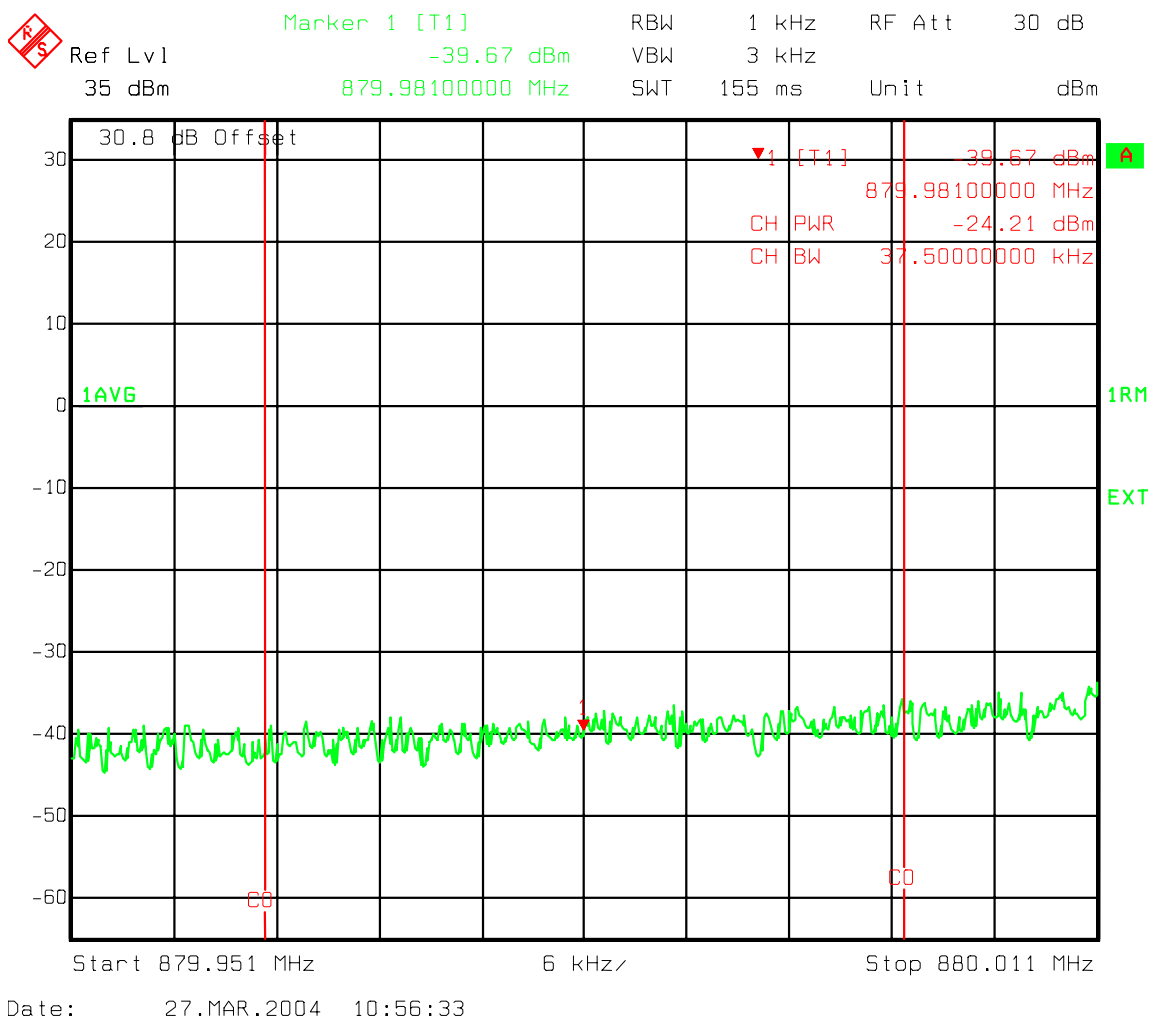


Figure 118 : Combined Three Carriers - Ch 358, 399 (IS856), 440 (IS95) Lower B Band Adjacent to outside edge 37.5kHz band Channel Power

Combination Three Carrier 560 and 601 (IS856), 642 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Ch560, 601, 642 Upper B Band adjacent 1MHz band emissions

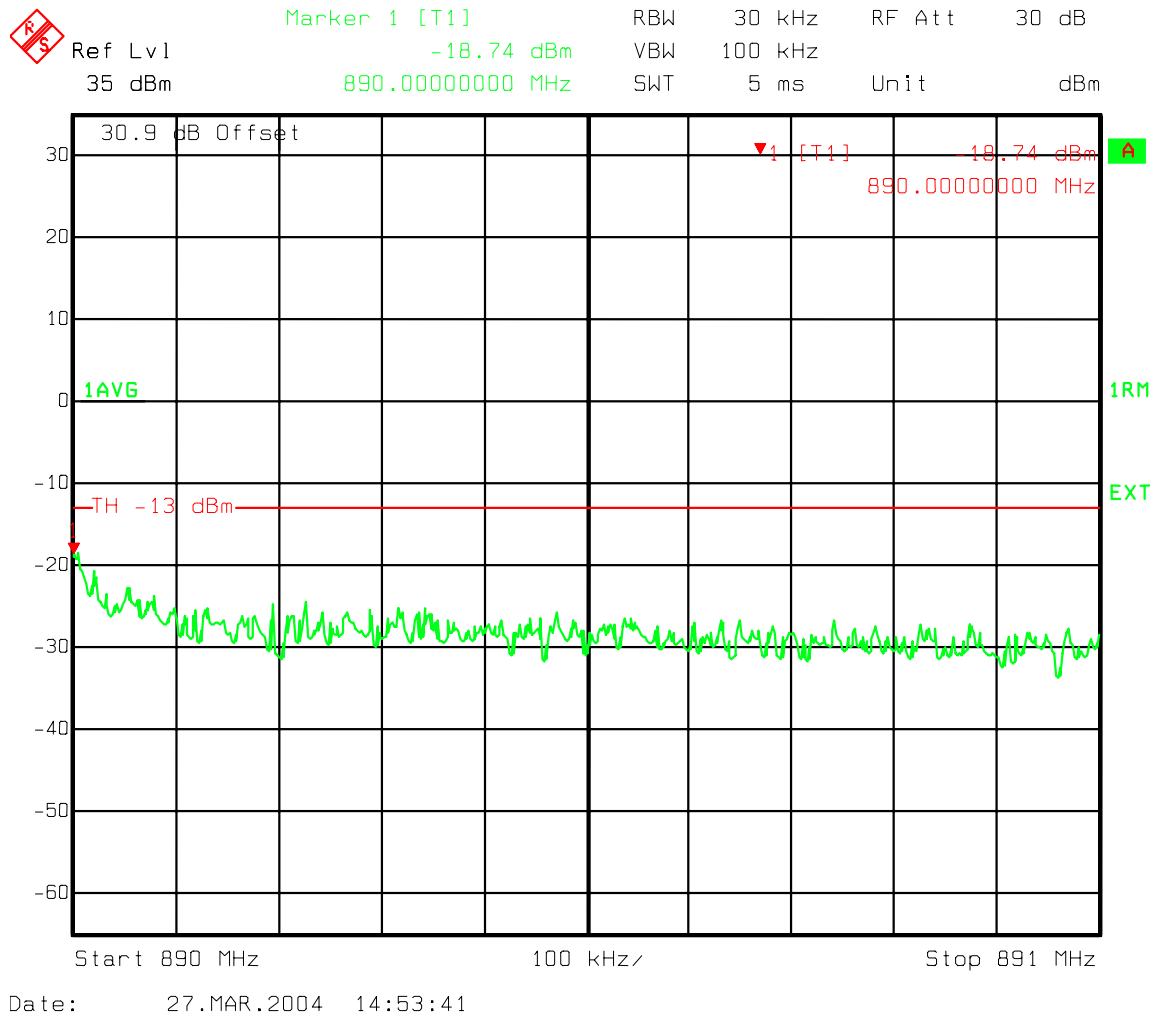


Figure 119 : Combined Three Carriers - Ch 560, 601, 642 Upper a Band adjacent 1 MHz band emissions 890-891 MHz

Combination Three Carrier 560 and 601 (IS856), 642 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Ch560, 601, 642 Upper adjacent 1MHz band 37.5 kHz band Channel power

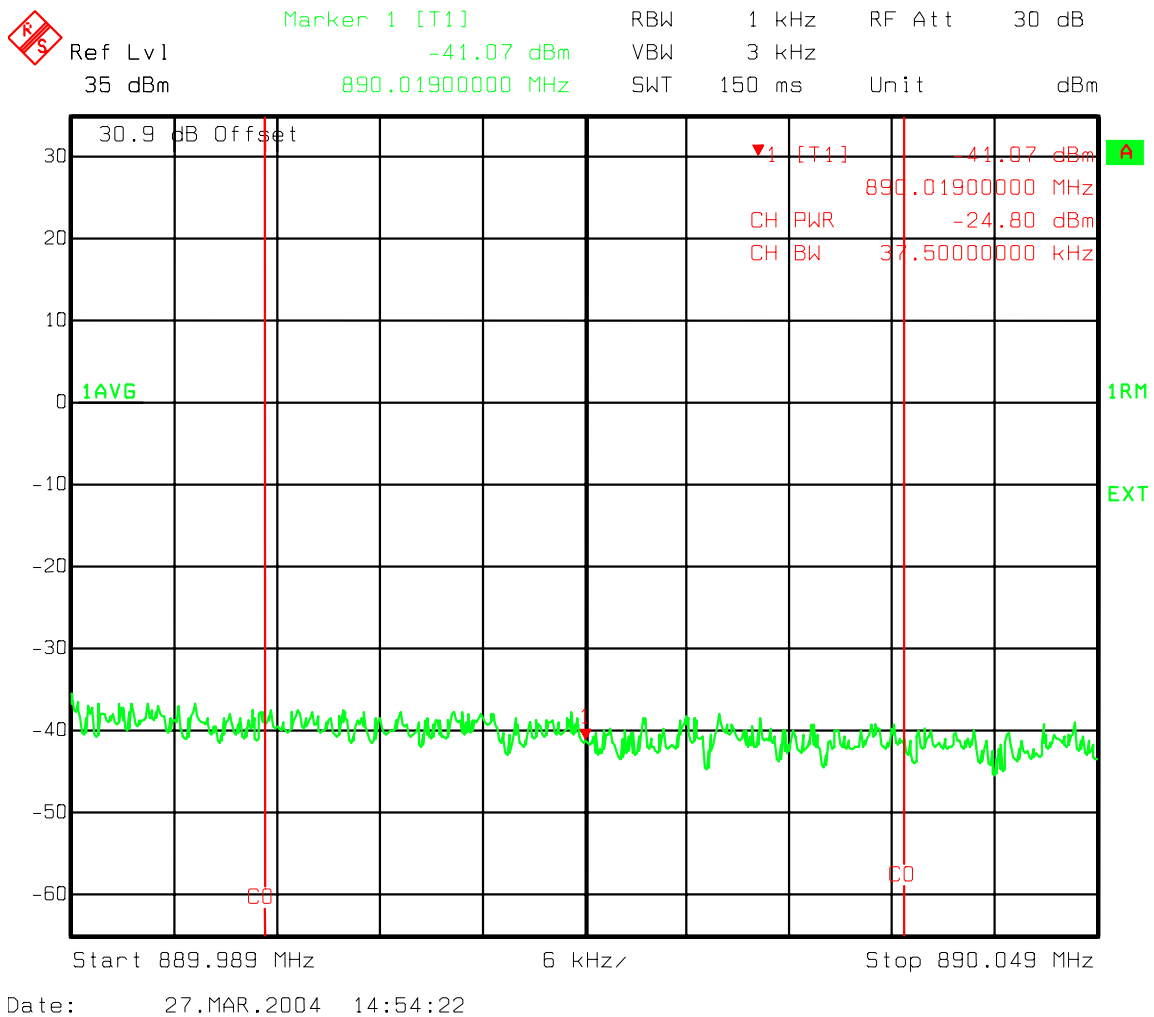


Figure 120 : Three Carriers - Ch 560, 601, 642 Upper B Band adjacent to outside edge 37.5 kHz band Channel power

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Industry Canada Lower 750 kHz offset 30kHz Chan Power Ch 358, 399, 440

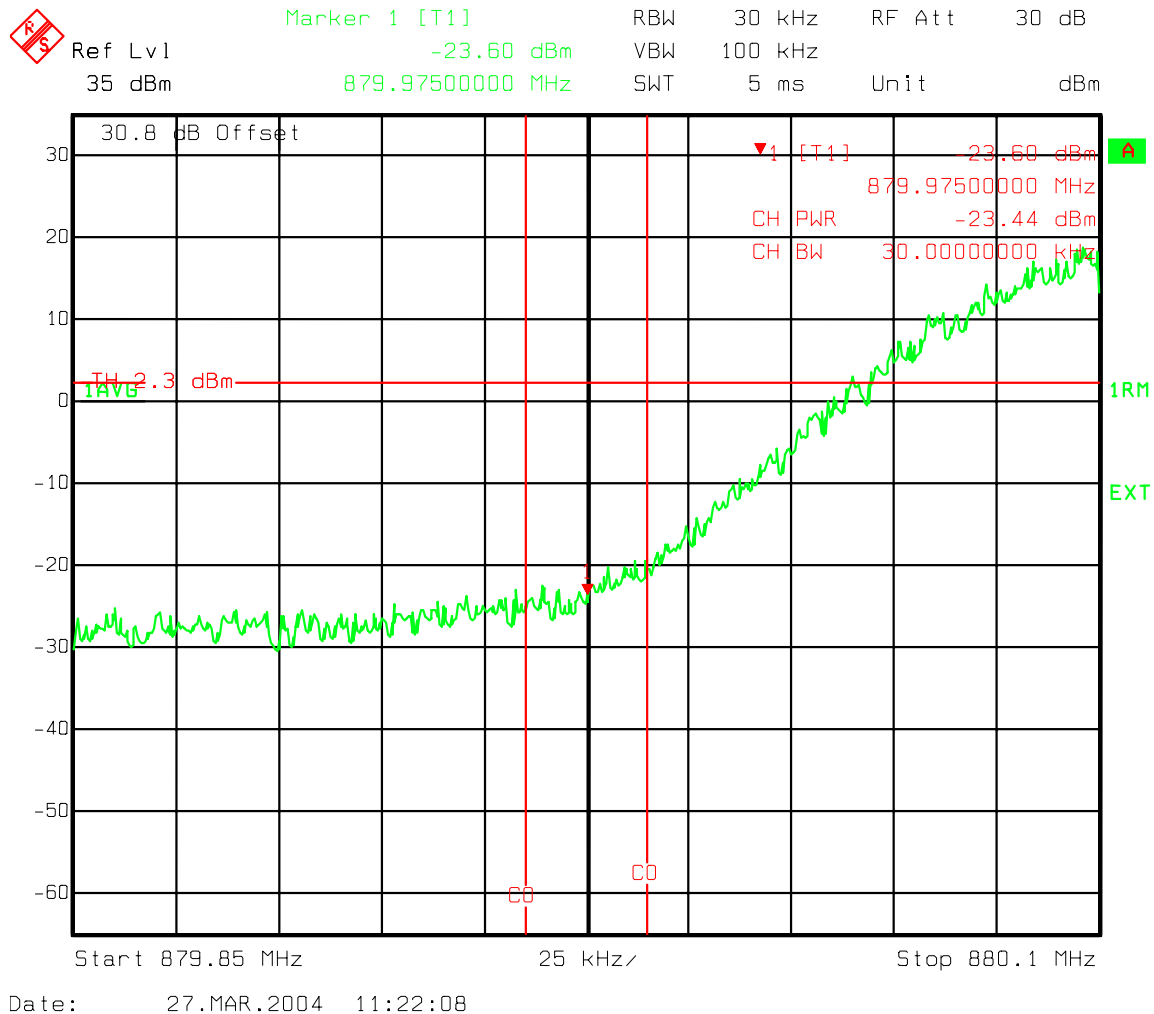


Figure 121 : Combined Three Carriers - Industry Canada Lower 750 kHz offset 30 kHz Chan Power Ch 358, 399 (IS856), 440 (IS95)

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Industry Canada Upper 750 kHz offset 30kHz Chan Power Ch 358, 399, 440

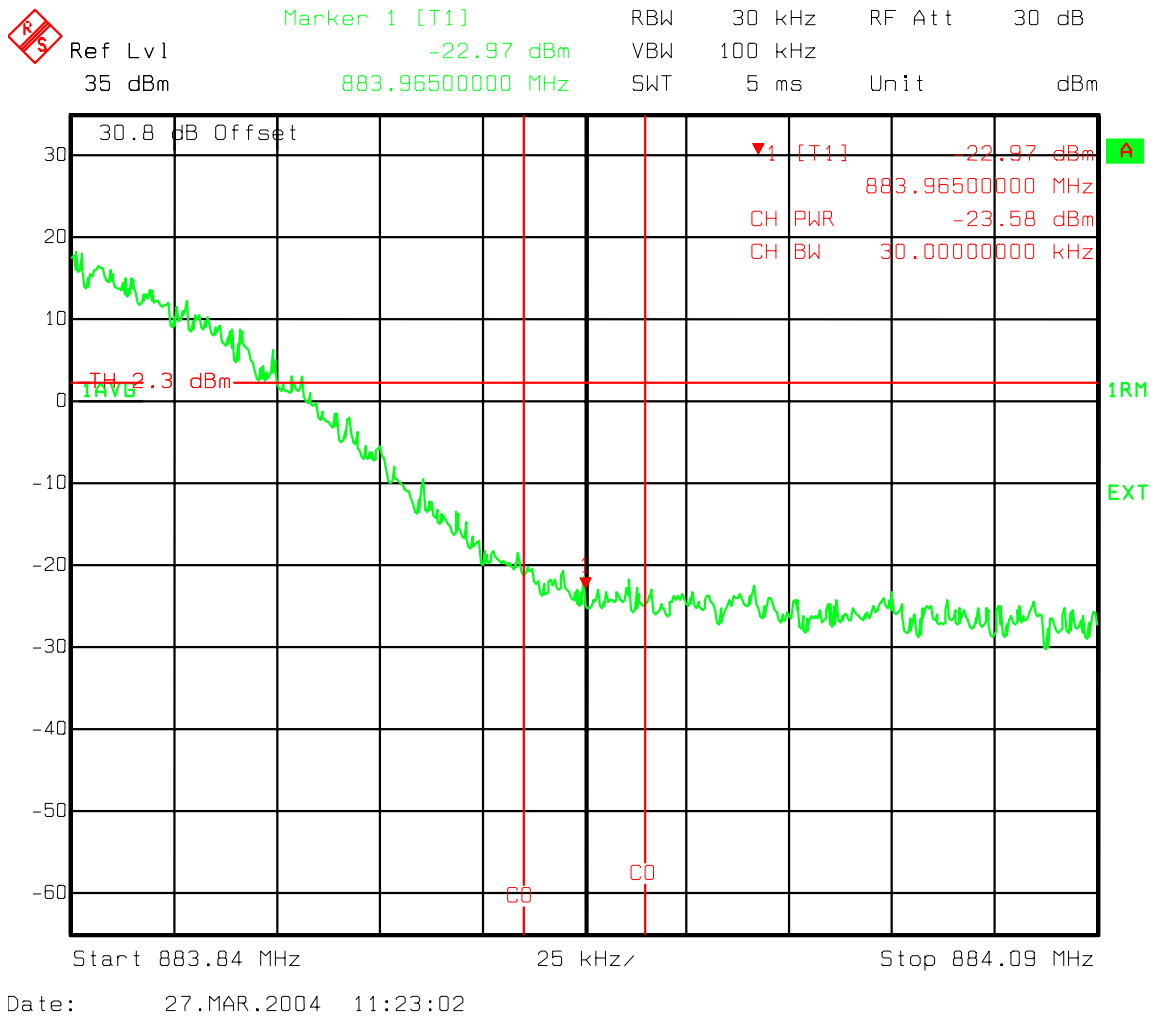


Figure 122 : Combined Three Carriers - Industry Canada Upper 750 kHz offset 30 kHz Chan Power Ch 358, 399 (IS856), 440 (IS95)

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Industry Canada 1.98 MHz offset Lower 30kHz Chan Power Ch 1015, 33, 74

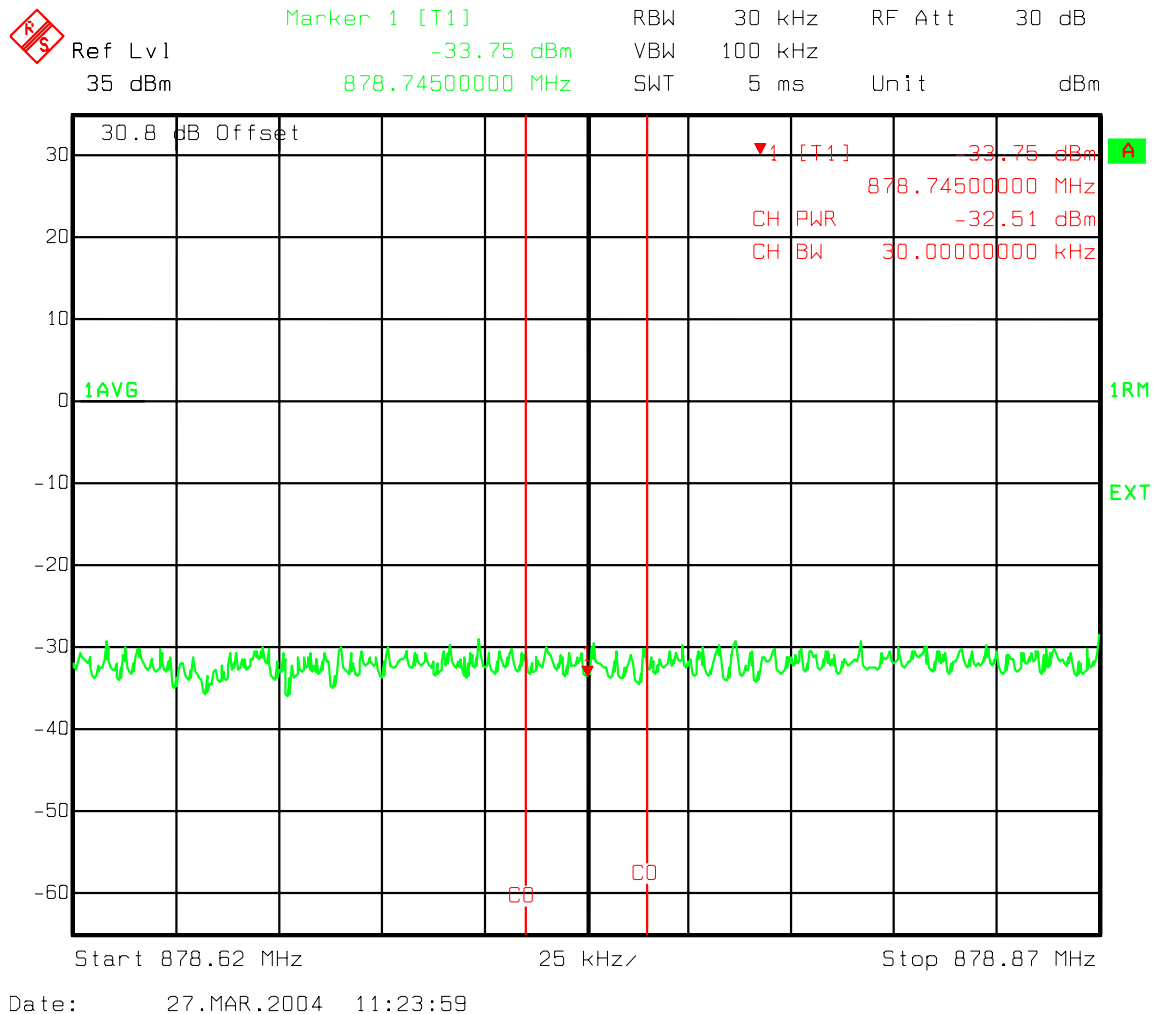


Figure 123 : Combined Three Carriers - Industry Canada 1.98 MHz offset Lower 30 kHz Chan Power Ch 358, 399 (IS856), 440 (IS95)

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

Industry Canada 1.98 MHz offset Upper 30kHz Chan Power Ch 358, 399, 440

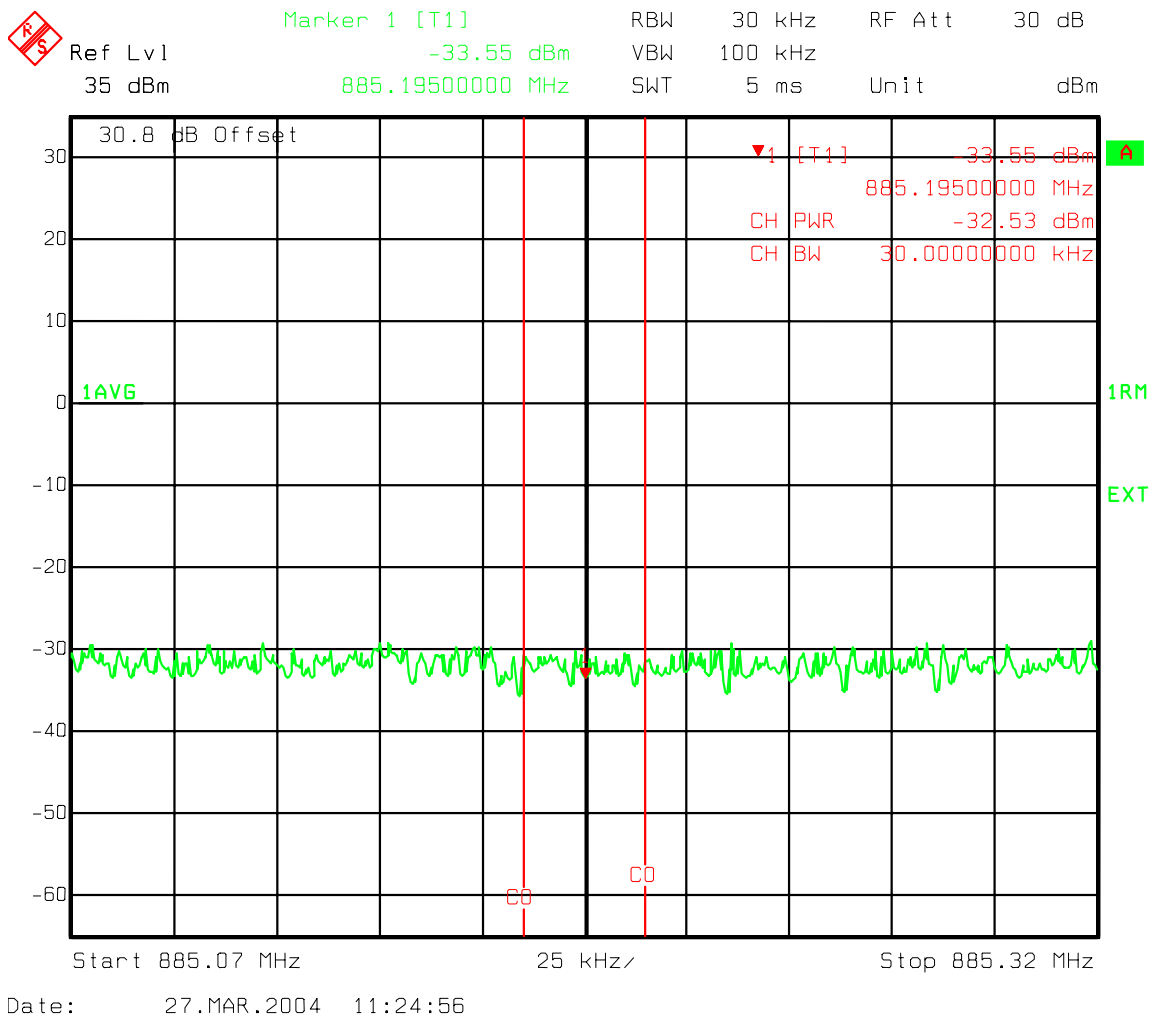
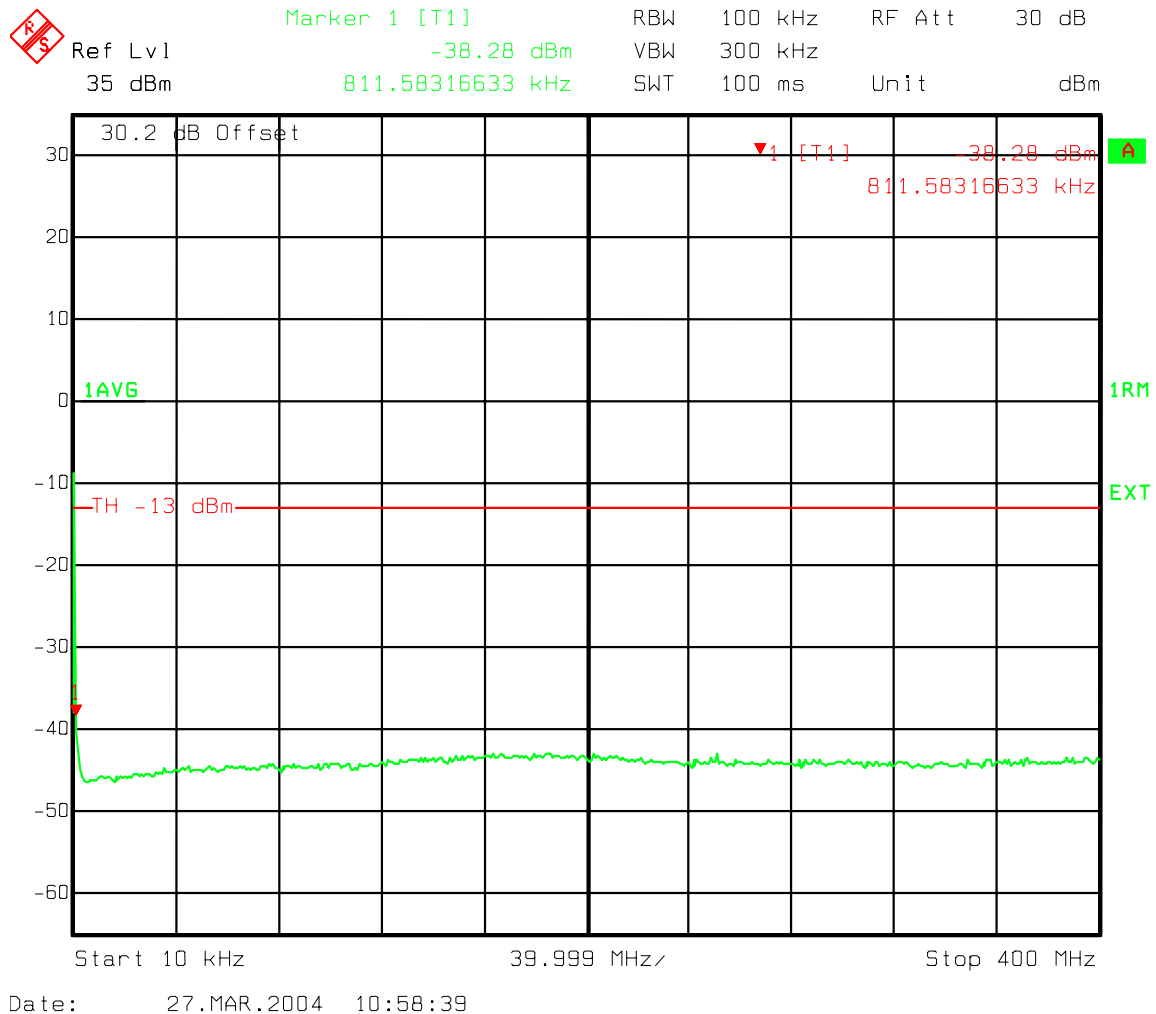


Figure 124 : Combined Three Carriers - Industry Canada 1.98 MHz offset Upper 30 kHz Chan Power Ch 358, 399 (IS856), 440 (IS95)

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B**B Band IS856/IS95 Spurious emissions 10kHz-400 MHz****Figure 125 : Combined Three Carriers - B Band IS856 Spurious emissions 10kHz-400 MHz**

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 400MHz to Lower 1MHz Band Edge

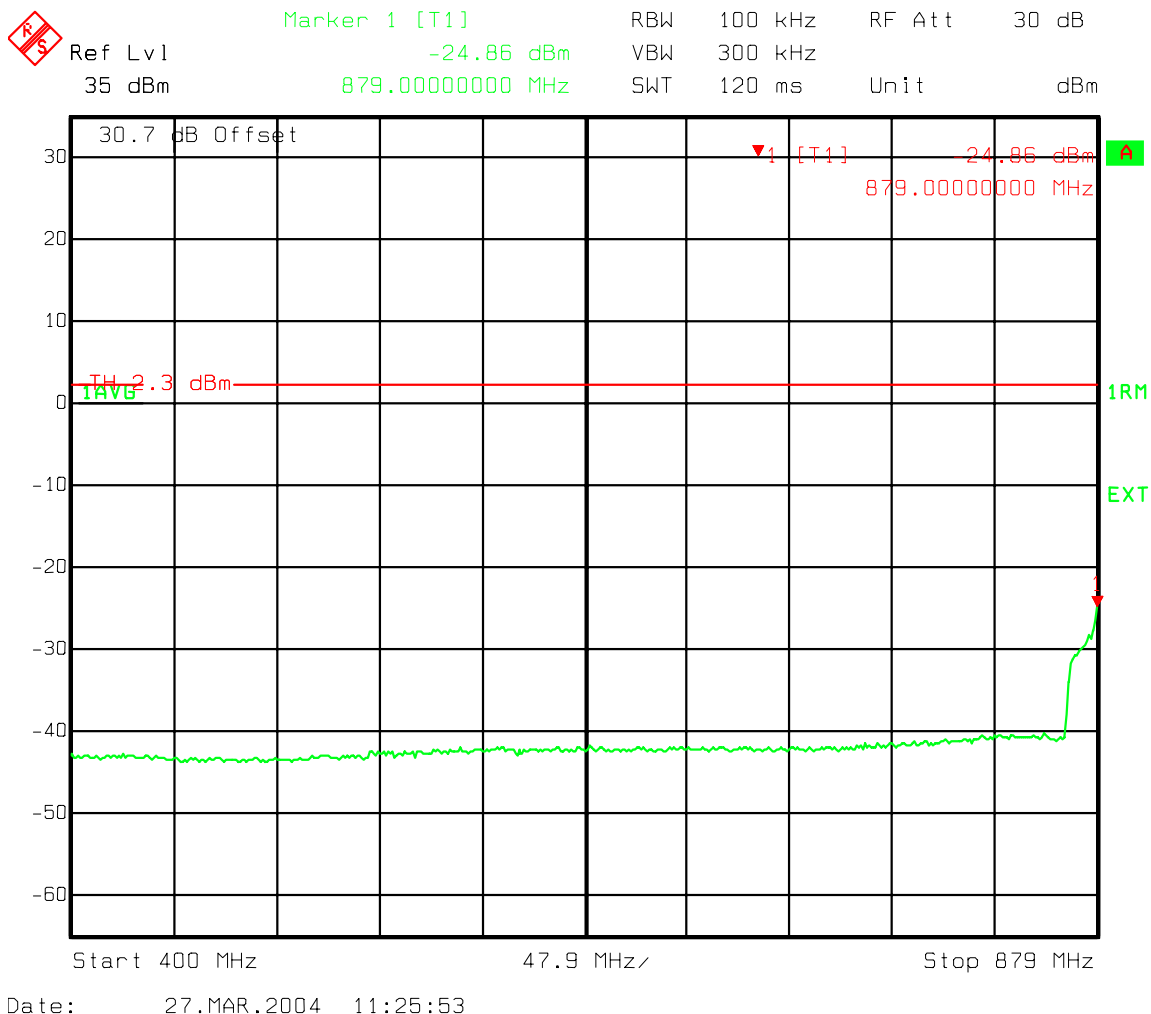


Figure 126 : Combined Three Carriers - B Band IS856 Spurious emissions 400 MHz to Lower 1 MHz Band Edge

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions Upper 1MHz Band Edge to 1GHz

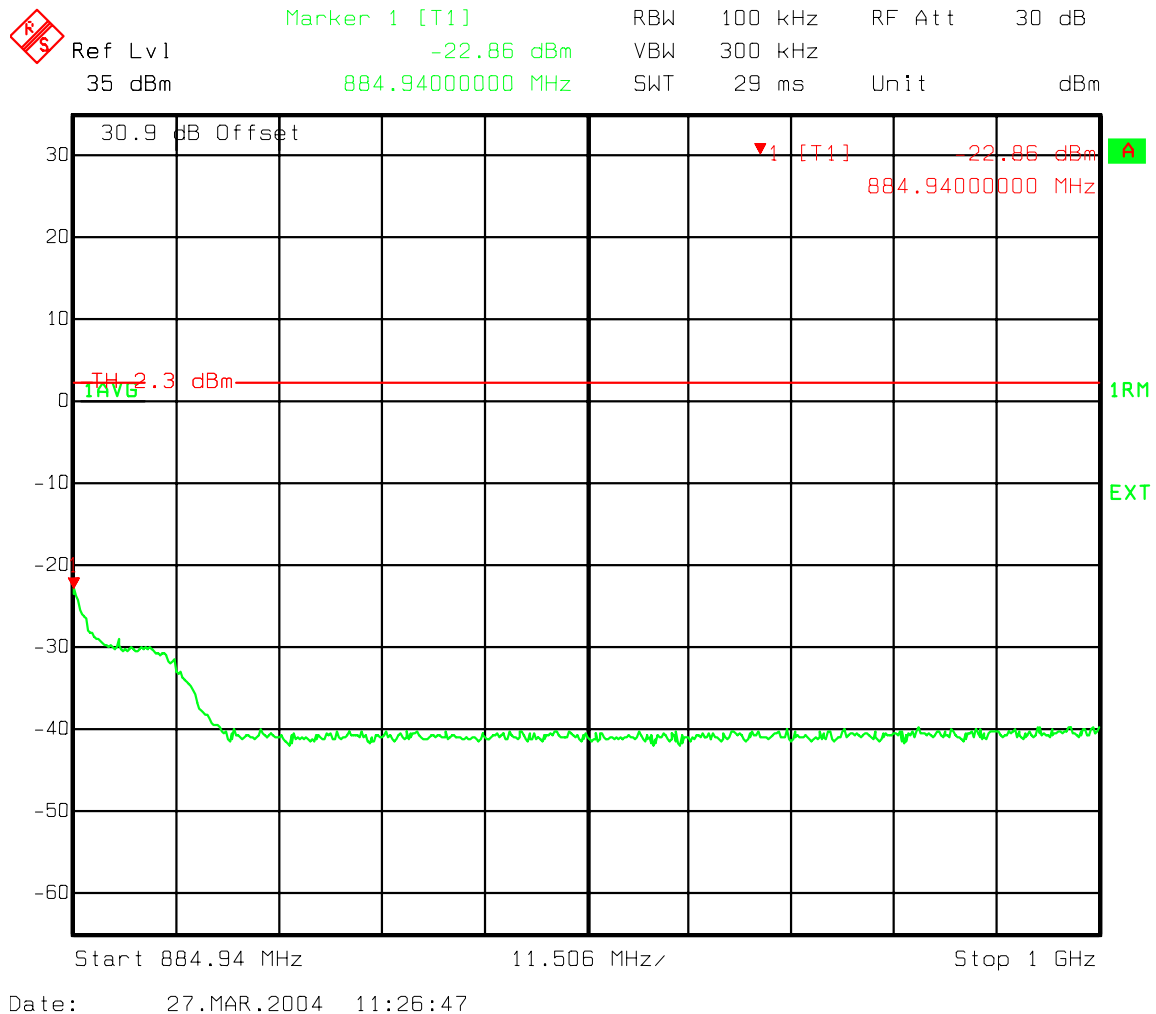


Figure 127 : Combined Three Carriers - B Band IS856 Spurious emissions Upper 1 MHz Band Edge to 1 GHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 400-1000 MHz

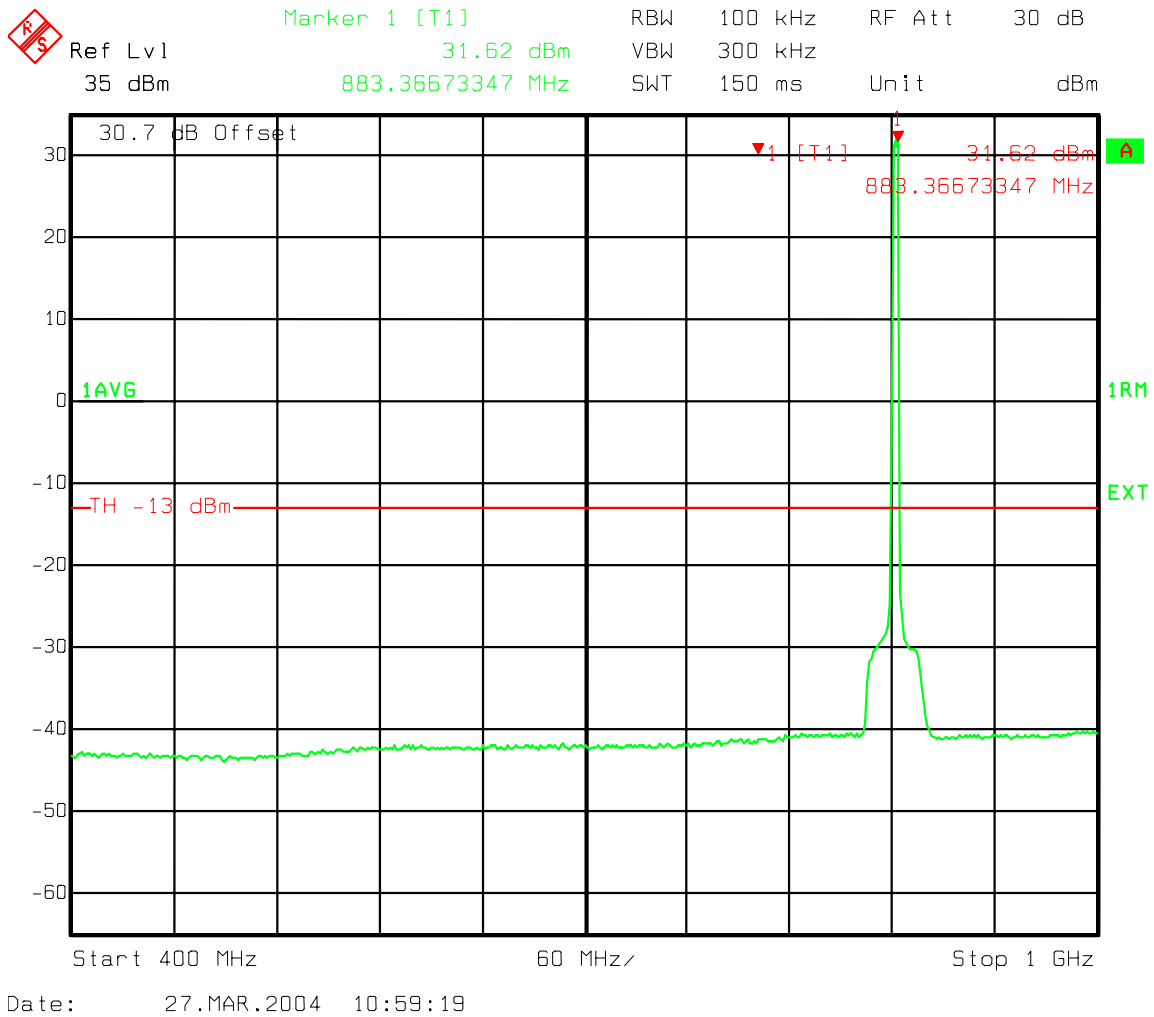
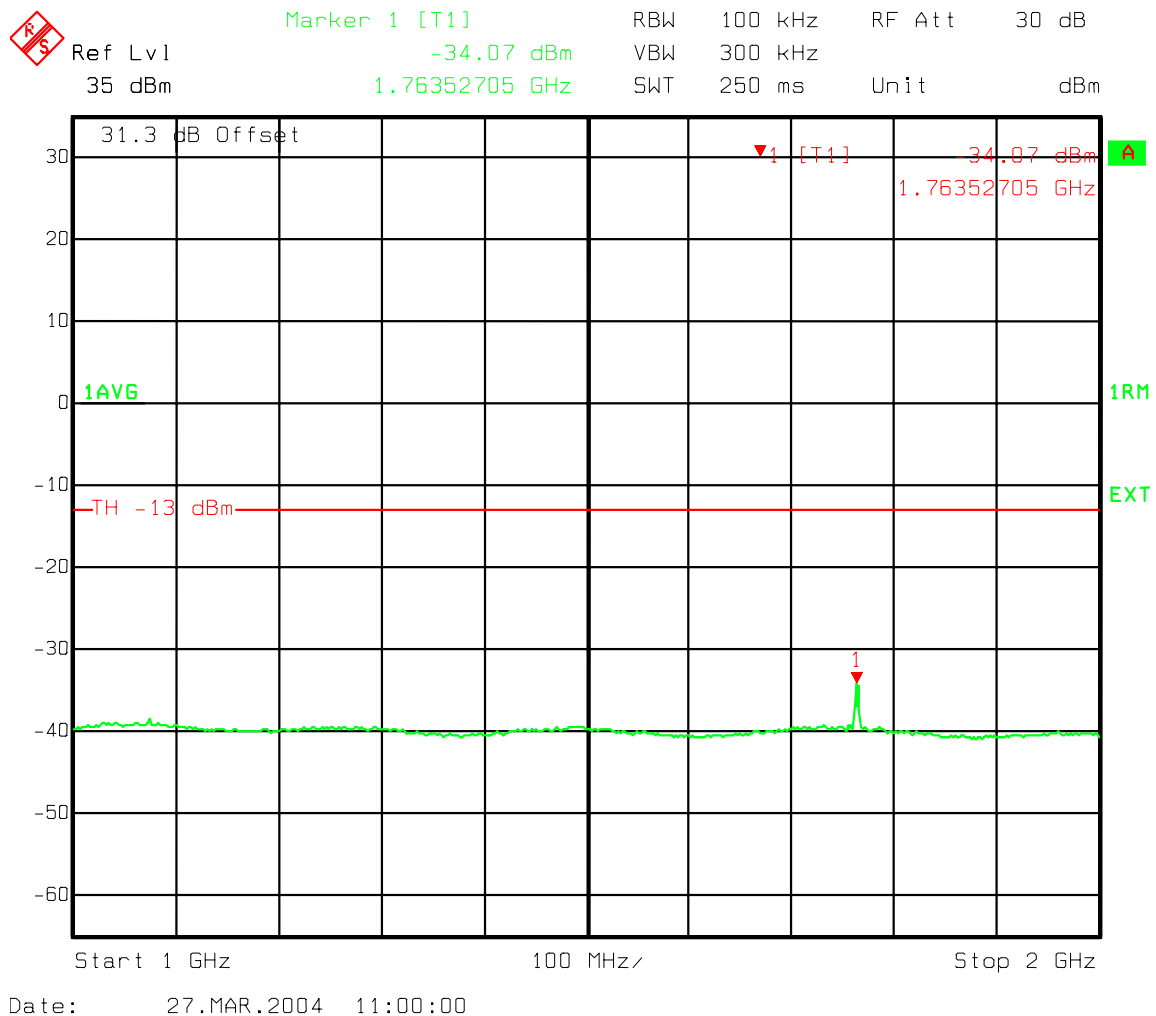


Figure 128 : Combined Three Carriers - B Band IS856 Spurious emissions 400-1000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B**B Band IS856/IS95 Spurious emissions 1000-2000 MHz****Figure 129 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 1000-2000 MHz**

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 2000-3000 MHz

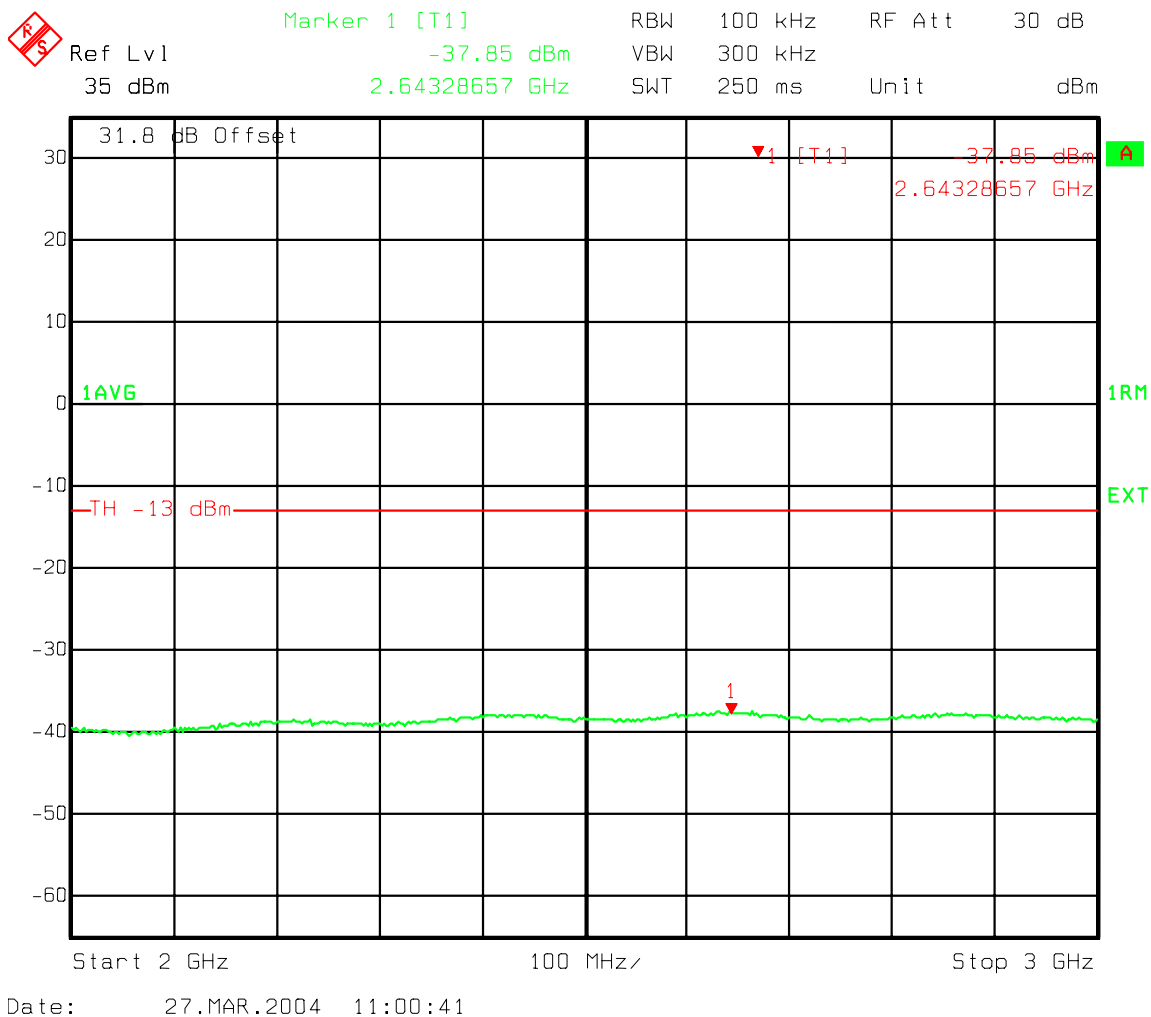


Figure 130 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 2000-3000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 3000-4000 MHz

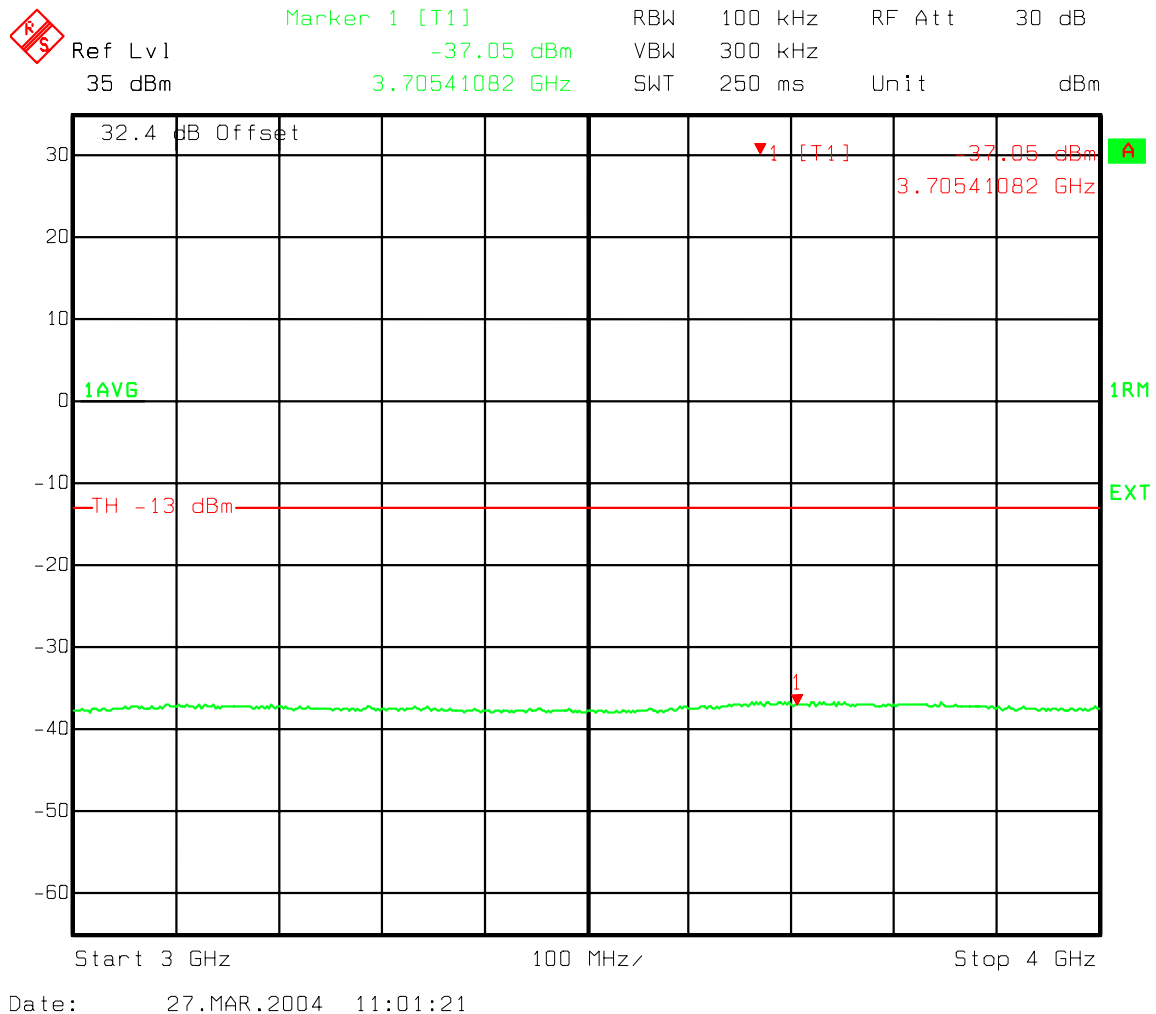


Figure 131 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 3000-4000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 4000-5000 MHz

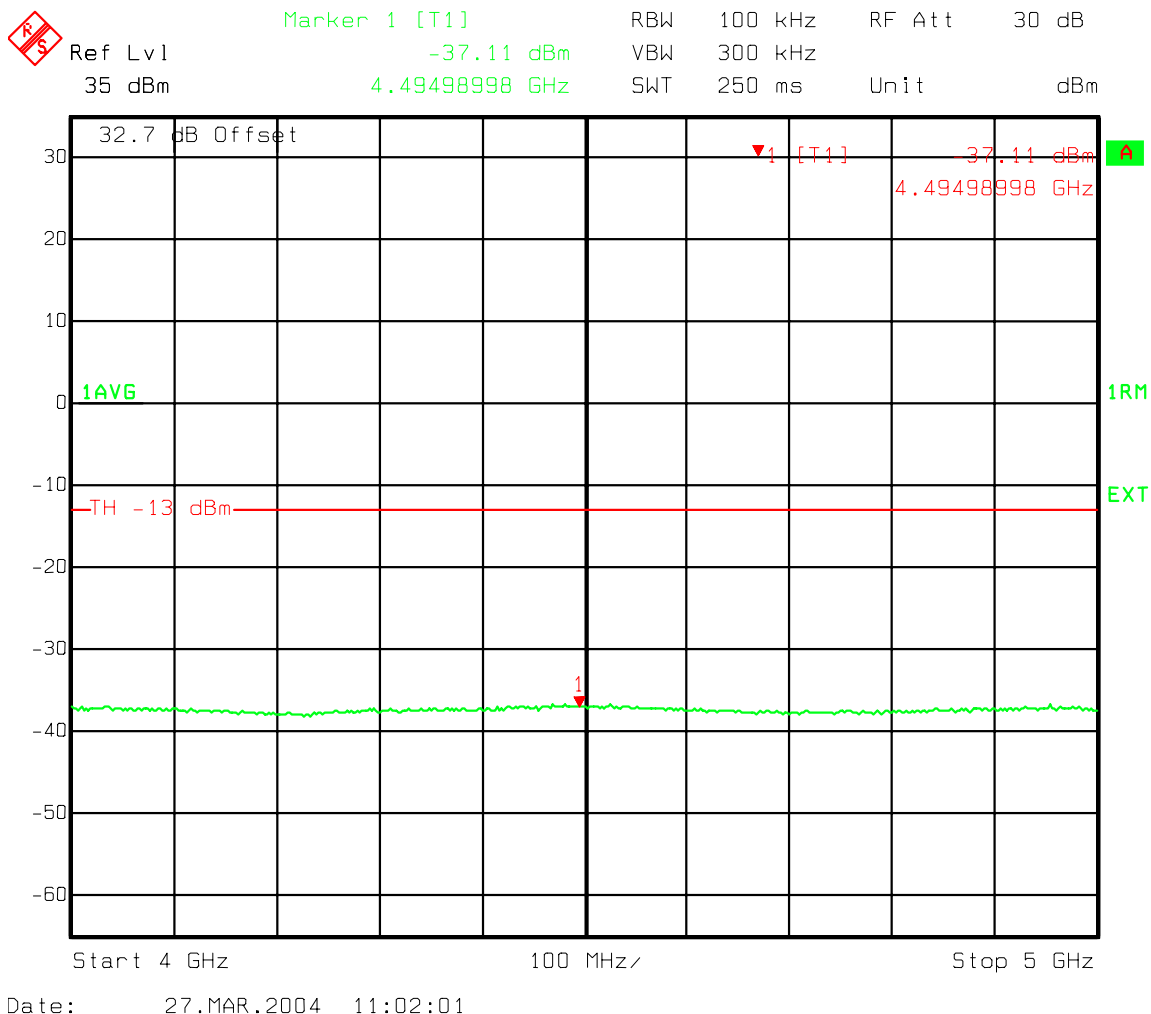
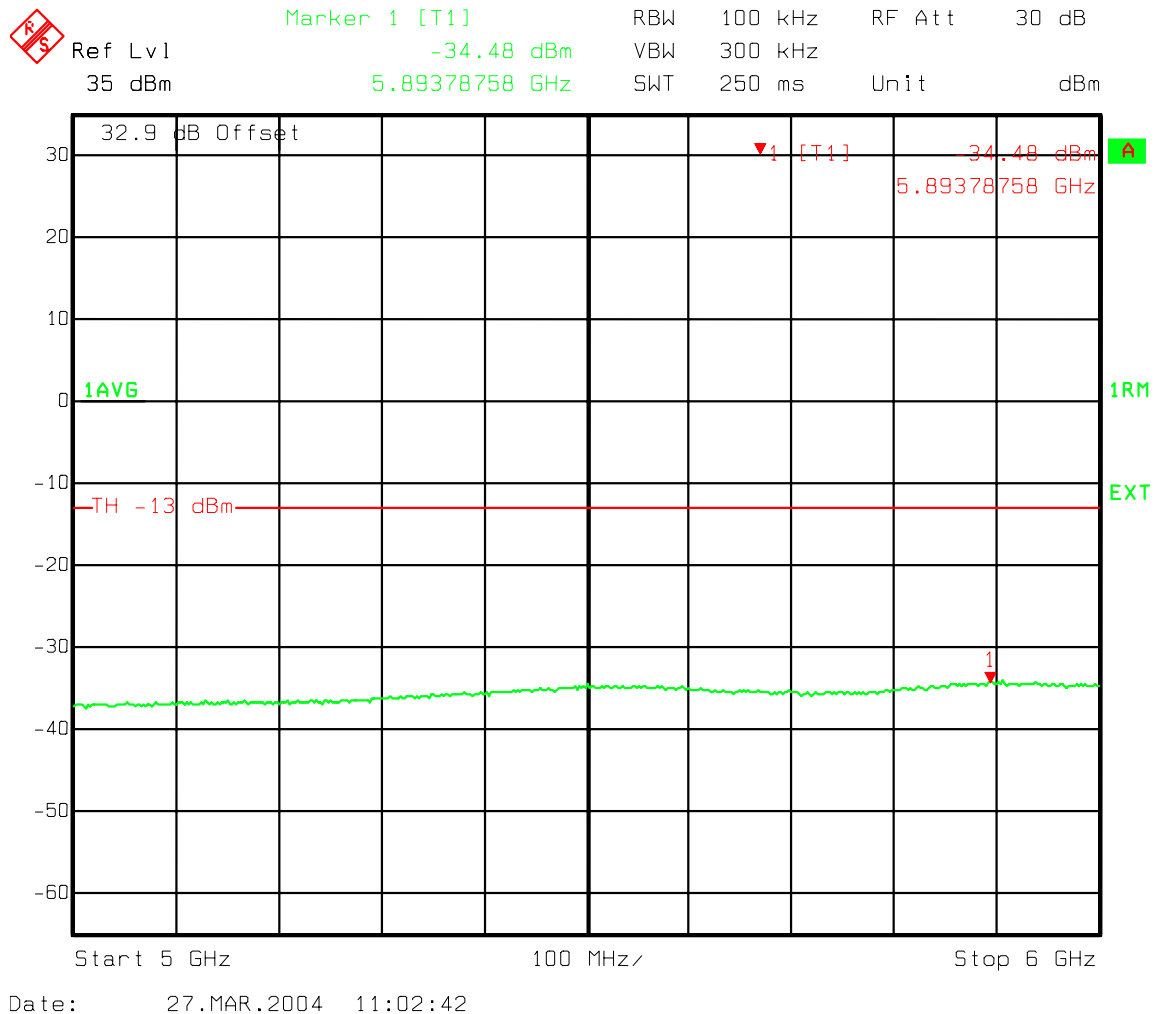


Figure 132 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 4000-5000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B**B Band IS856/IS95 Spurious emissions 5000-6000 MHz****Figure 133 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 5000-6000 MHz**

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 6000-7000 MHz

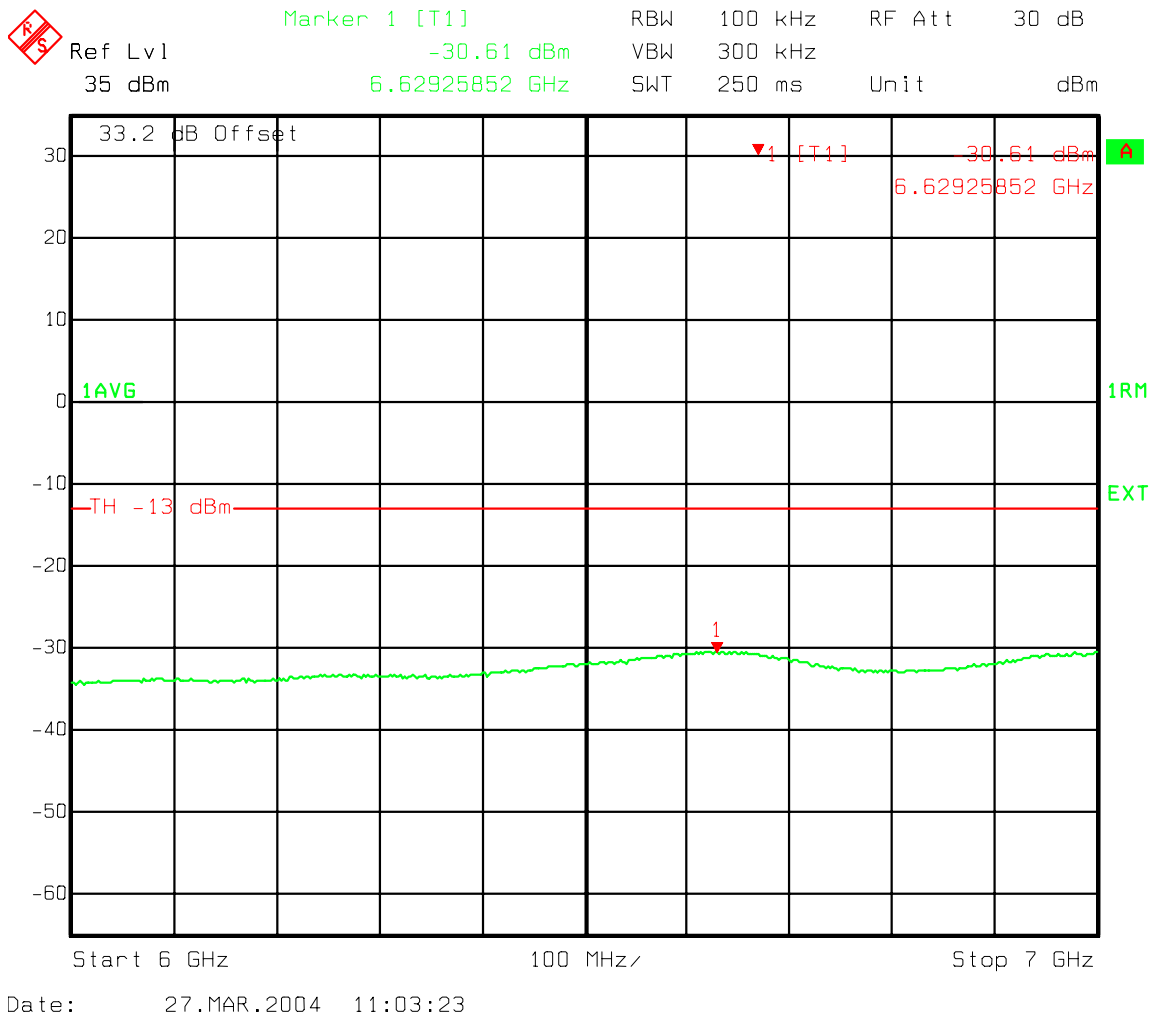


Figure 134 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 6000-7000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 7000-8000 MHz

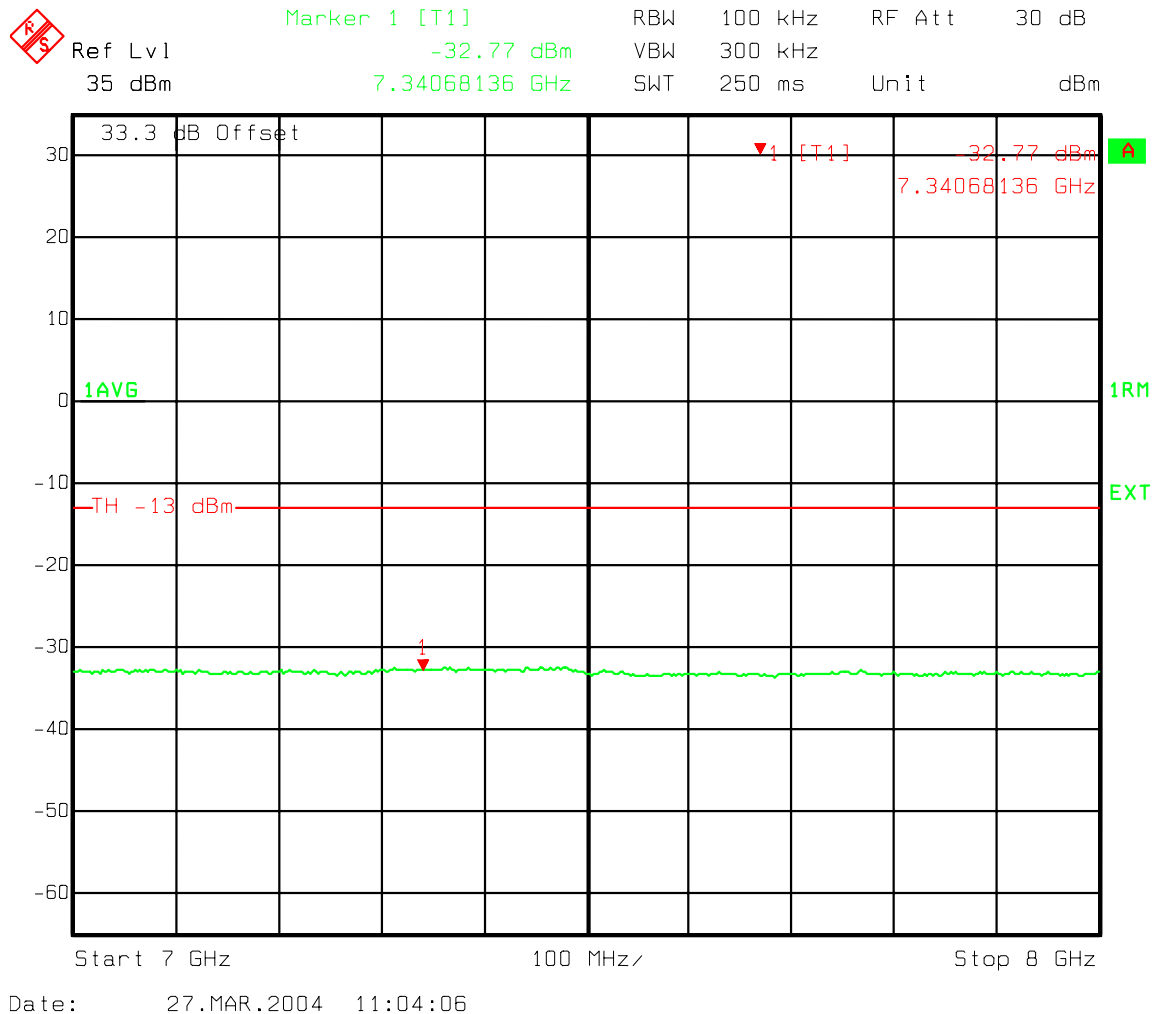


Figure 135 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 7000-8000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 8000-9000 MHz

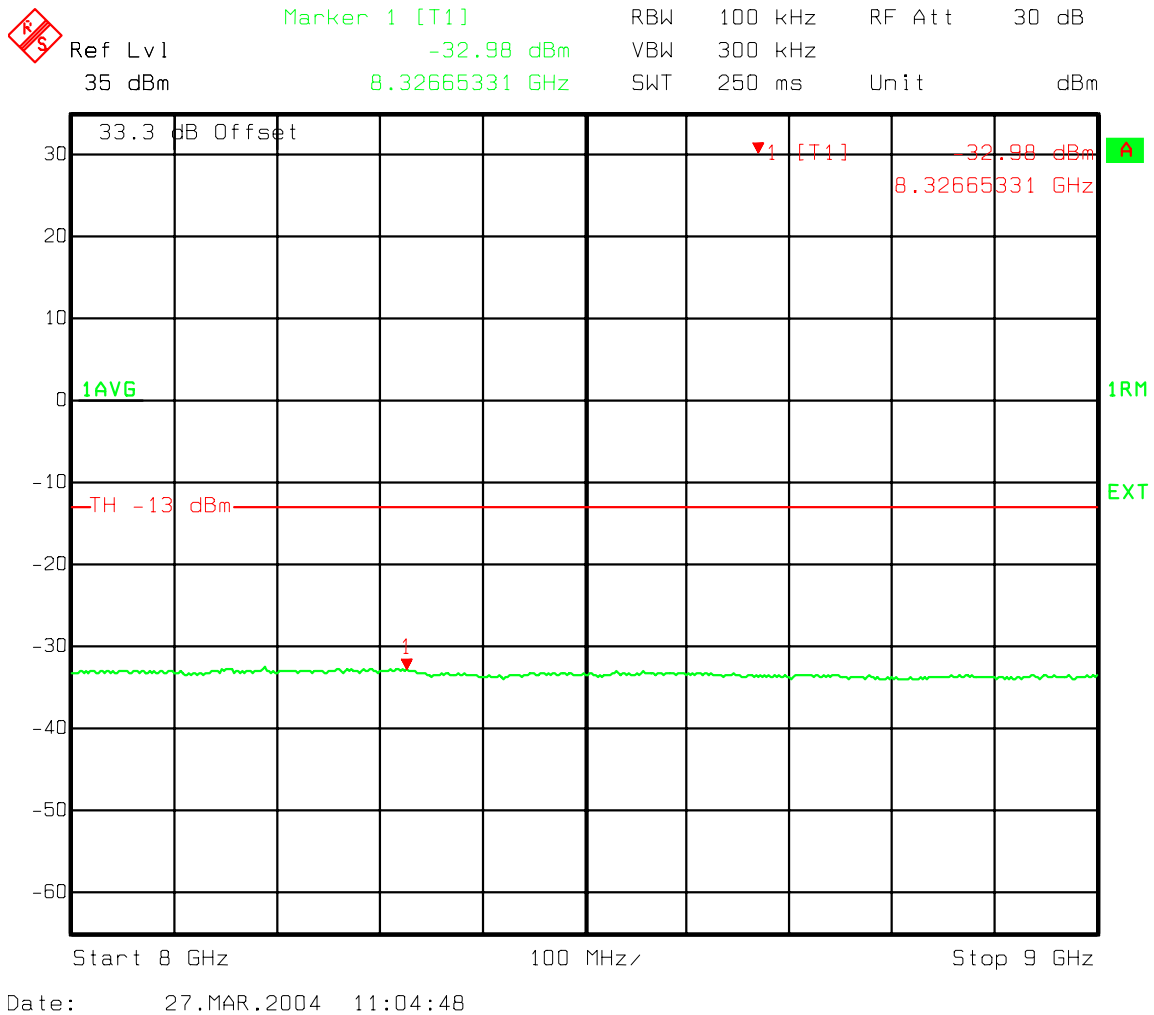


Figure 136 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 8000-9000 MHz

Combination Three Carrier 358 and 399 (IS856), 440 (IS95) Spurious Emissions at the 800 MHz MFRM1-Tornado Ant. Port band B

B Band IS856/IS95 Spurious emissions 9000-10000 MHz

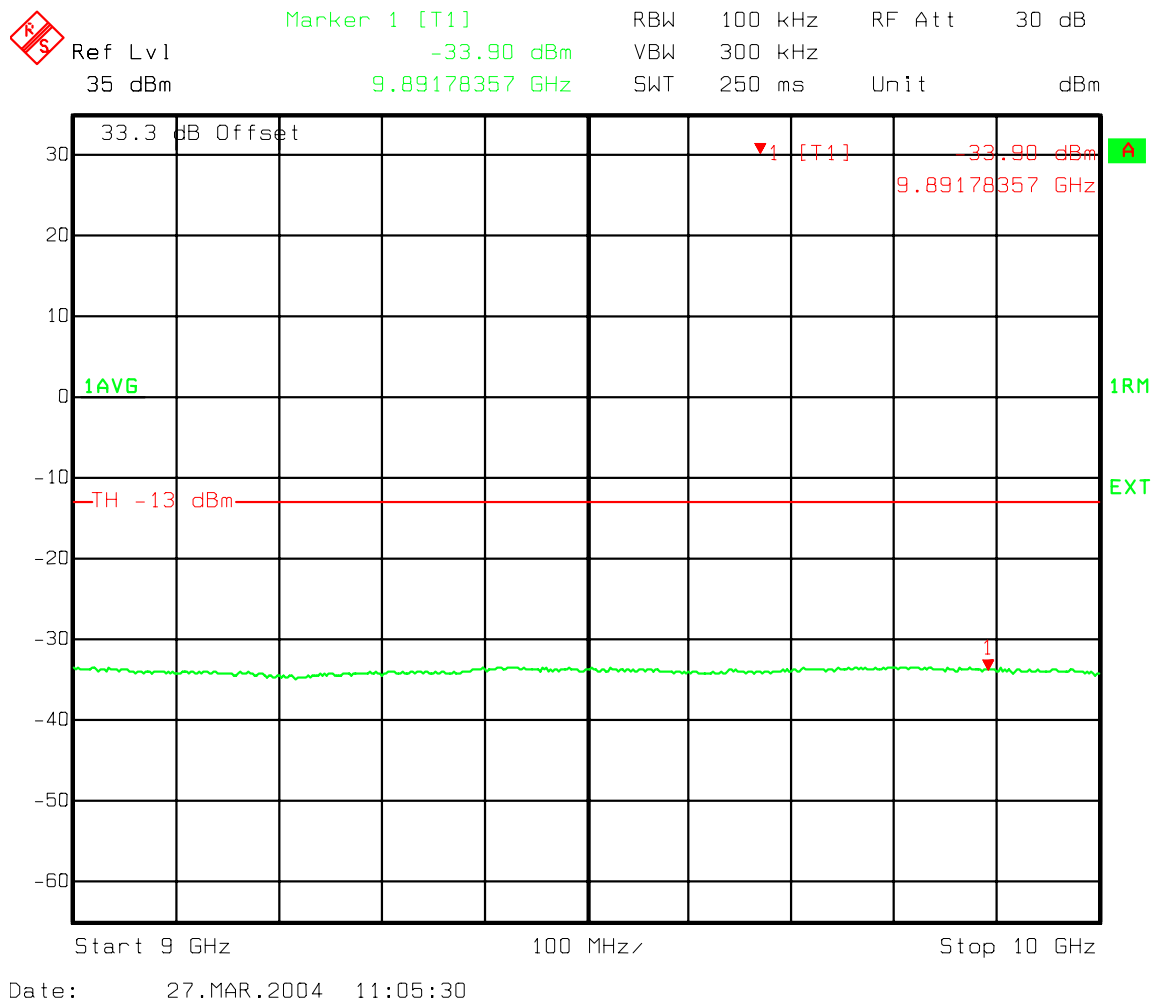


Figure 137 : Combined Three Carriers - B Band 2-IS856/1-IS95 Spurious emissions 9000-10000 MHz

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- [5] Industry Canada “Information on the 99% Bandwidth measurement” Author Brain Kasper. [http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/vwapj/occupied-bandwidth.pdf/\\$FILE/occupied-bandwidth.pdf](http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/vwapj/occupied-bandwidth.pdf/$FILE/occupied-bandwidth.pdf)
- [6] CTP_AB6NT800MFRM2_8_and_9th_carrier. http://livelink-ott.ca.nortel.com/livelink.exe/8153812/FCC_22_8th_and_9th_carrier_Test_Plan.pdf?func=doc.Fetch&nodedid=8153812

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