



FCC Test Report

Test report no.: EMC_906FCC15.247_2005_D640

FCC Part 15.247 for FHSS systems / CANADA RSS-210
Model: D640
FCC ID: AL8-D640
IC: 457A-D640



TTI-P-G 081/94-A0

Accredited according to **ISO/IEC 17025**



**Bluetooth Qualification
Test Facility
(BQTF)**



FCC listed # 101450

IC recognized # 3925

CETECOM Inc.

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Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May

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The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

TEST REPORT PREPARED BY:
EMC Engineer: Harpreet Sidhu

1.2 Testing laboratory
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E-mail: lothar.schmidt@cetecomusa.com
Internet: www.cetecom.com

1.3 Details of applicant

Name : Plantronics, Inc.
Street : 345 Encinal St.
City / Zip Code : Santa Cruz / 95060
Country : USA
Contact : Edward F. Godstein
Telephone : +831 458 4476
Fax : +831 429 5731
e-mail : Sid.sin@plantronics.com

1.4 Application details

Date of receipt test item : 2005-04-21
Date of test : 2005-04-21/22/25/26/27

1.5 Test item

Marketing Name : Tahiti
Model No. : D640
Description : [BT Headset](#)
HW / SW version : 30 / 3.06
FCC-ID : AL8-D640
IC ID : 457A-D640

Additional information

Frequency : 2402MHz – 2480MHz
Type of modulation : GFSK
Number of channels : 79
Antenna : Printed Meandering Line (ML)
Power supply : Lithium Ion Polymer Battery (60mAH)
Output power : -0.1dBm (0.977mW) max. conducted peak power
Extreme vol. Limits : 3.4 – 4.2VDC (3.7 nominal)
Extreme temp. Tolerance : 0°C-50°C

1.6 Test standards: FCC Part 15 §15.247 (DA00-705) / RSS 210

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2 Technical test**2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests
Performed

Final Verdict:
(only "passed" if all single measurements are "passed")

Passed

Technical responsibility for area of testing:

2005-05-16 EMC & Radio

Lothar Schmidt
(EMC Manager)



Date

Section

Name

Signature

Responsible for test report and project leader:

2005-05-16 EMC & Radio Harpreet Sidhu (EMC Engineer)



Date

Section

Name

Signature

2.2 Test report

TEST REPORT

Test report no.: EMC_906FCC15.247_2005_D640

TEST REPORT REFERENCE

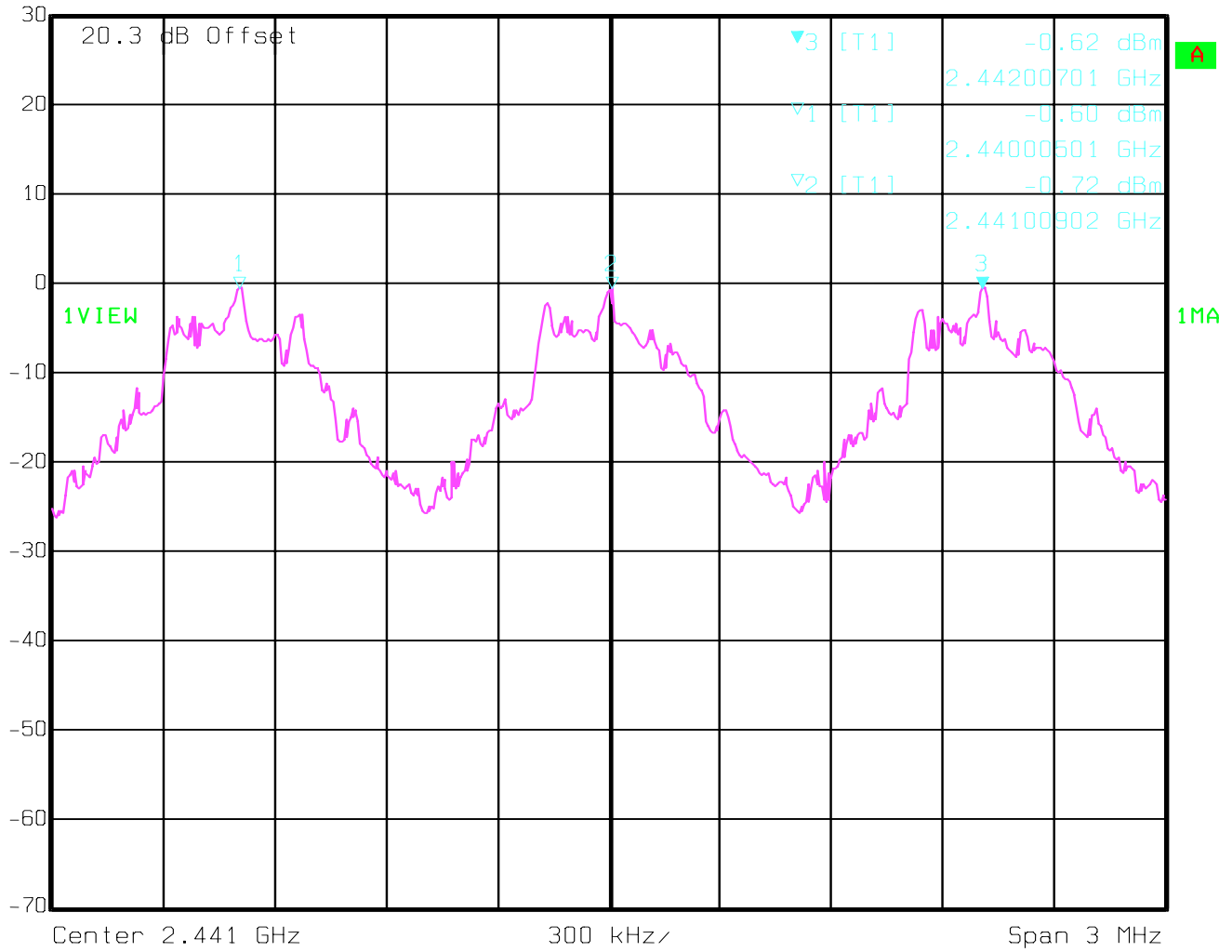
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CARRIER FREQUENCY SEPERATION

§15.247(a)



Ref Lvl 30 dBm
 Marker 3 [T1] -0.62 dBm
 2.44200701 GHz
 RBW 30 kHz RF Att 30 dB
 VBW 100 kHz
 SWT 8.5 ms Unit dBm



Date: 28.APR.2005 19:35:15

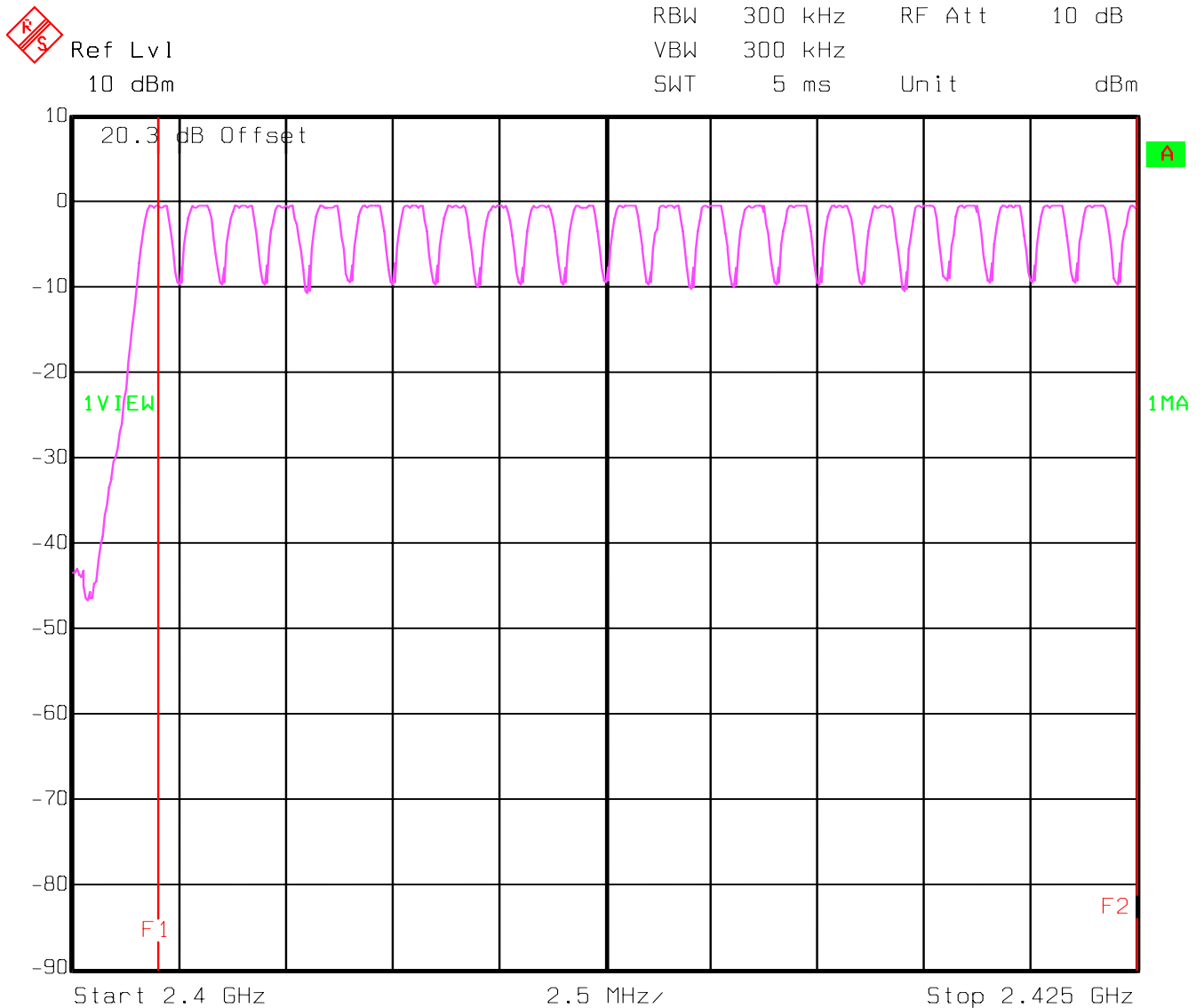
NUMBER OF HOPPING CHANNELS

§15.247(a)

The number of hopping channels is 79 (see next 4 plots)

The right red line corresponds to the left red line from the next plot.

Plot 1: Total 24



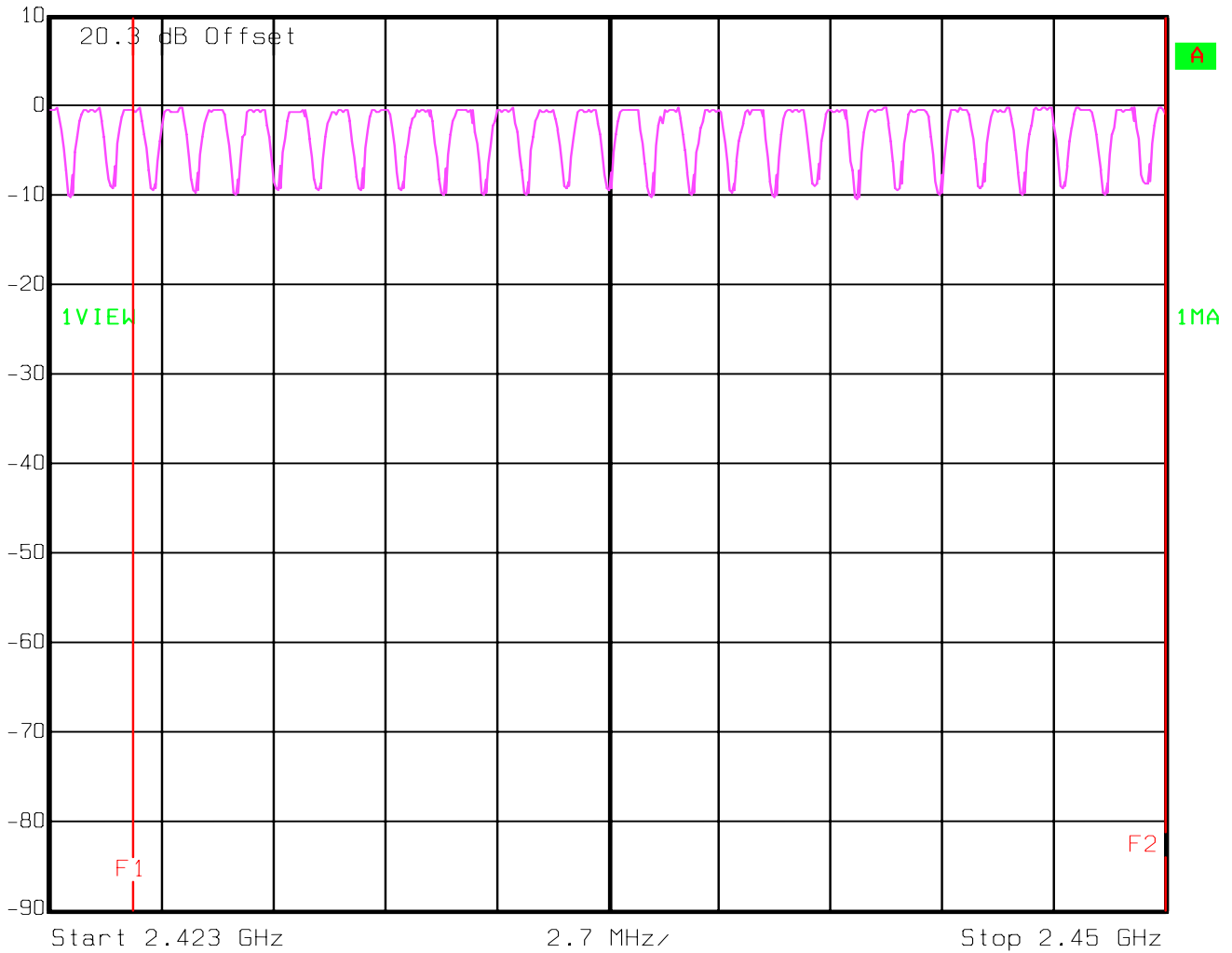
Date: 28.APR.2005 19:47:41

Plot 2: Total 25



Ref Lvl
10 dBm

RBW 300 kHz RF Att 10 dB
VBW 300 kHz
SWT 5 ms Unit dBm



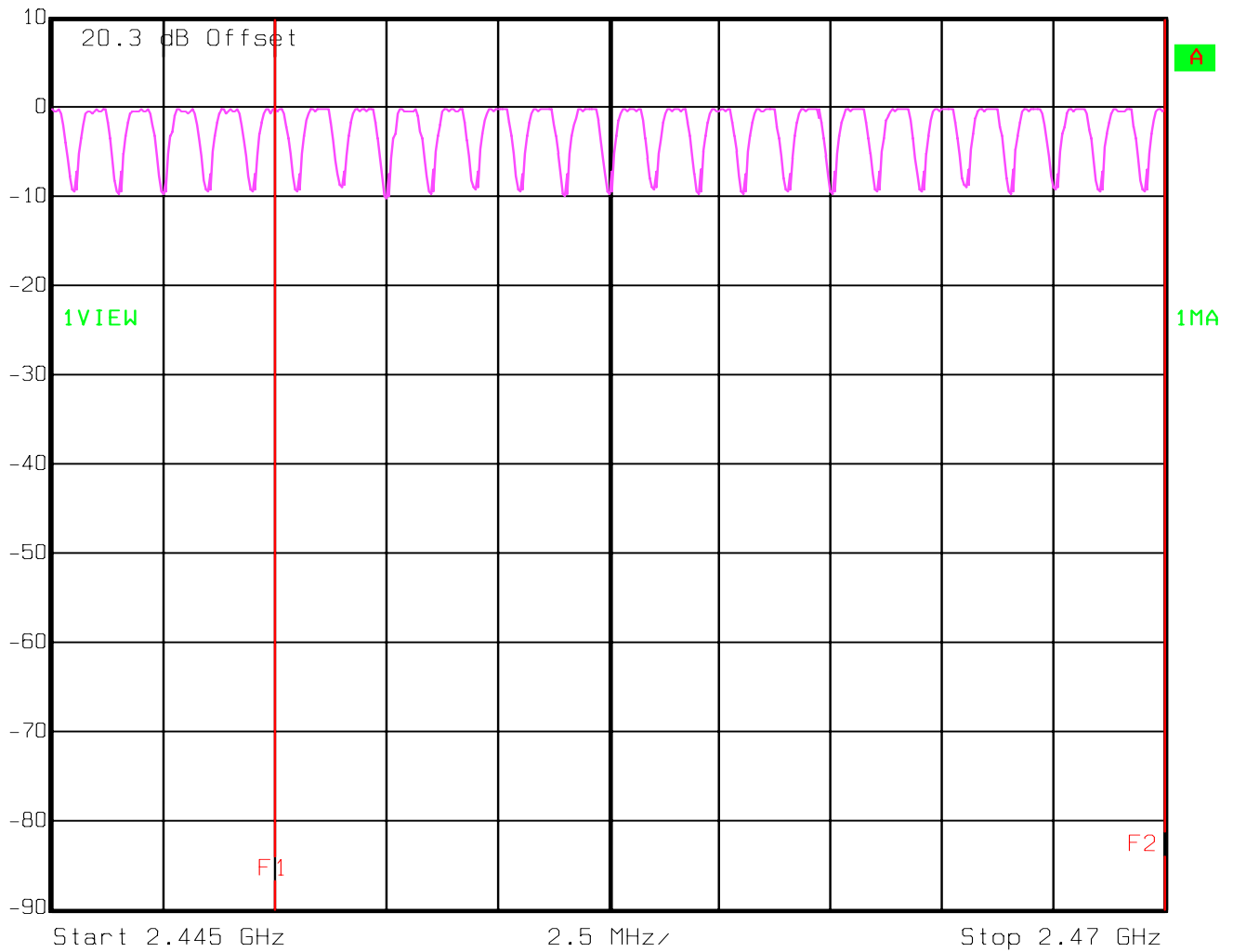
Date: 28.APR.2005 19:54:30

Plot 3: Total 20



Ref Lvl
10 dBm

RBW 300 kHz RF Att 10 dB
VBW 300 kHz
SWT 5 ms Unit dBm



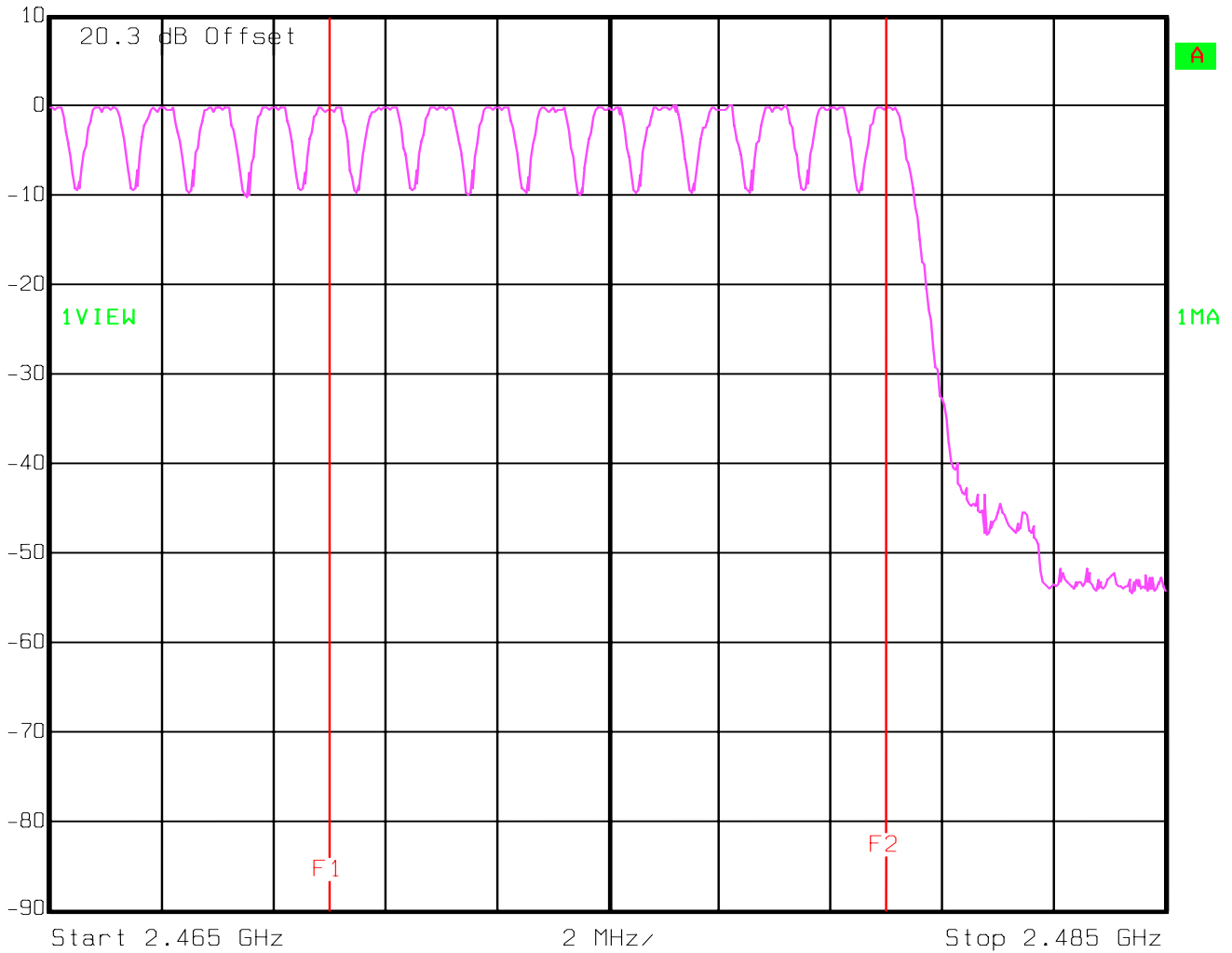
Date: 28.APR.2005 20:06:52

Plot 4: Total 10



Ref Lvl
10 dBm

RBW 300 kHz RF Att 10 dB
VBW 300 kHz
SWT 5 ms Unit dBm

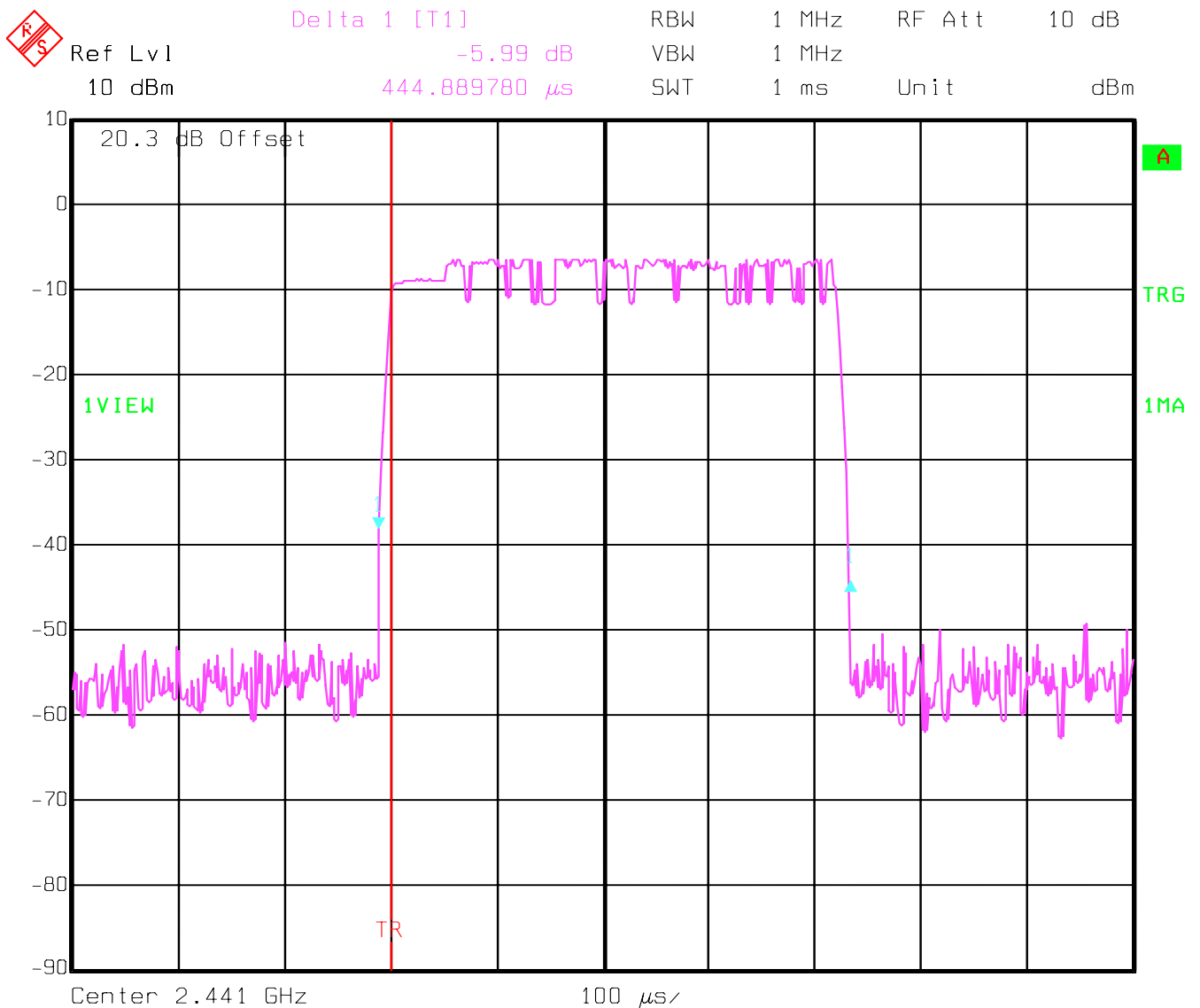


Date: 28.APR.2005 20:09:54

TIME OF OCCUPANCY (DWELL TIME)
DH1 – Packet

§15.247(a)

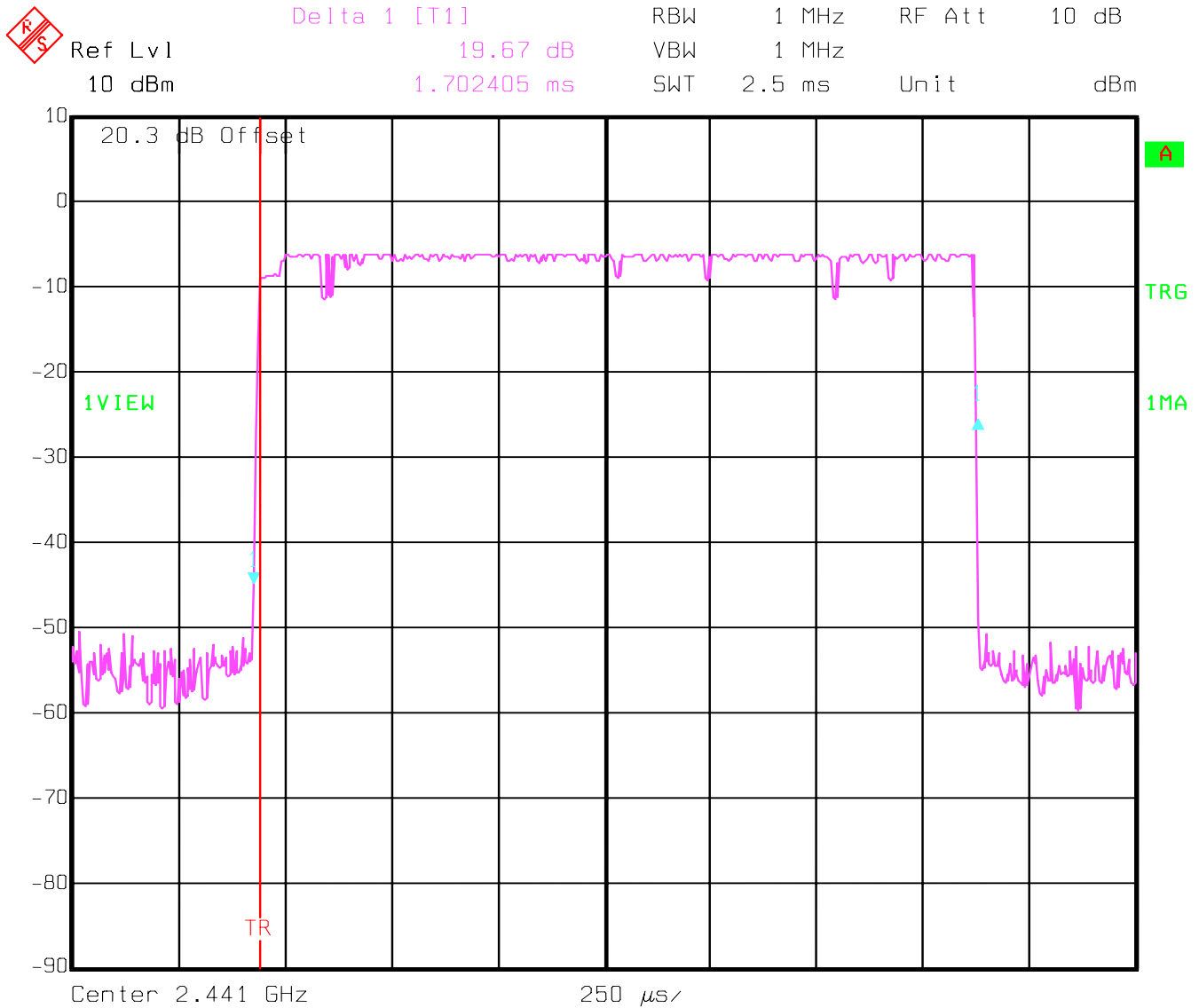
The system makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels. A DH1 Packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 times per second and so for 31.6 seconds you have 320.108 times of appearance. Each Tx-time per appearance is 444.89µs. So we have 320.108 * 444.89µs = 142.41ms per 31.6 seconds.



TIME OF OCCUPANCY (DWELL TIME)
DH3 – Packet

§15.247(a)

**A DH3 Packets need 3 time slots for transmit and 1 for receiving, then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 times per second and so for 31.6 seconds you have 161.16 times of appearance.
 Each Tx-time per appearance is 1.7ms.
So we have 161.16 * 1.7ms = 273.97ms per 31.6 seconds.**



SPECTRUM BANDWIDTH OF FHSS SYSTEM
20 dB bandwidth

§15.247(a)

TEST CONDITIONS		20 dB BANDWIDTH (kHz)		
Frequency (MHz)		2402	2441	2480
$T_{nom}(23)^{\circ}C$	V_{nom}	825.65	829.65	825.65

RBW / VBW as provided in the "Measurement Guidelines" (DA 00-705, March 30, 2000)

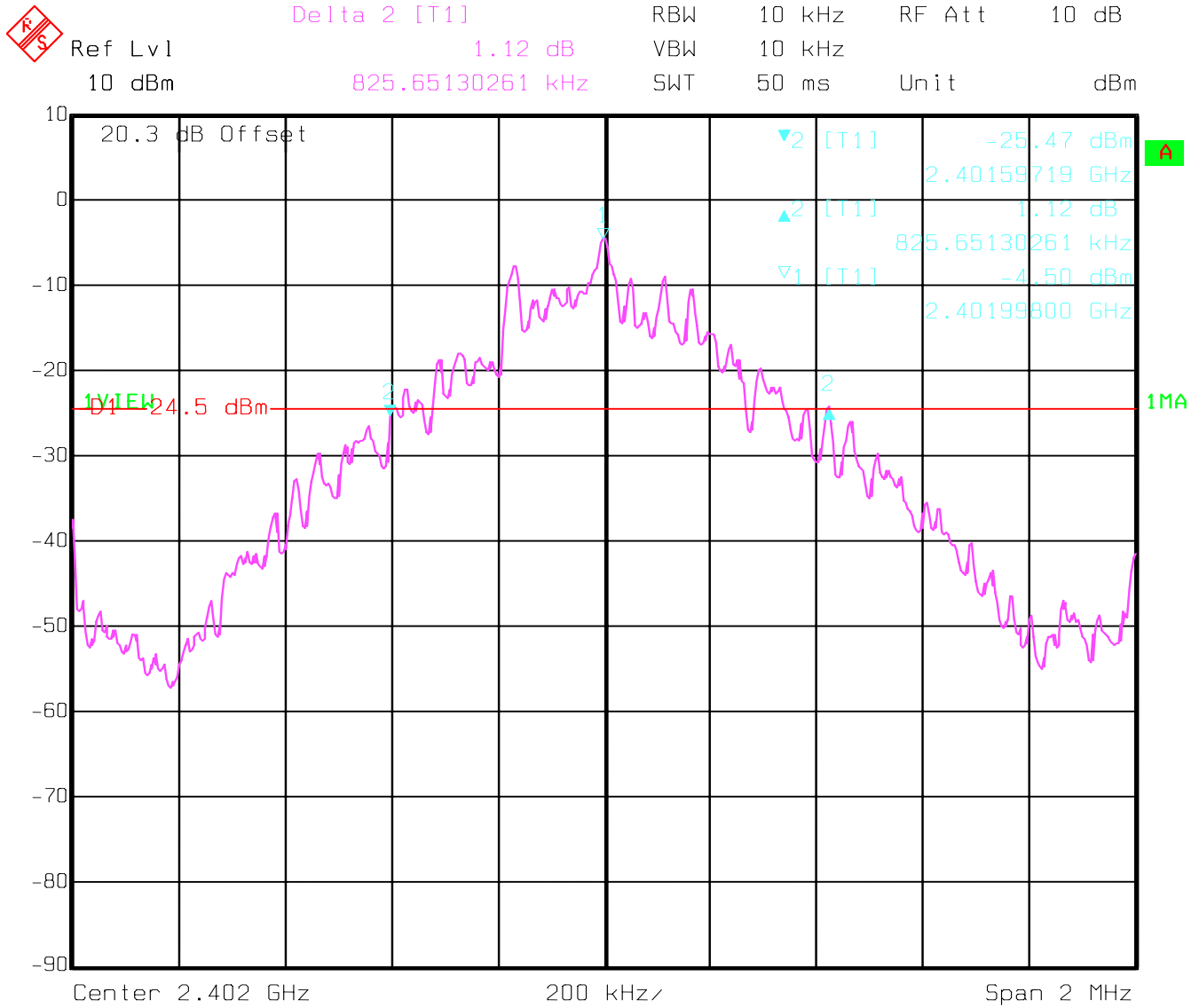
LIMIT**SUBCLAUSE §15.247(a) (1)**

The maximum 20dB bandwidth shall be at maximum 1000 KHz

SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Lowest Channel: 2402MHz

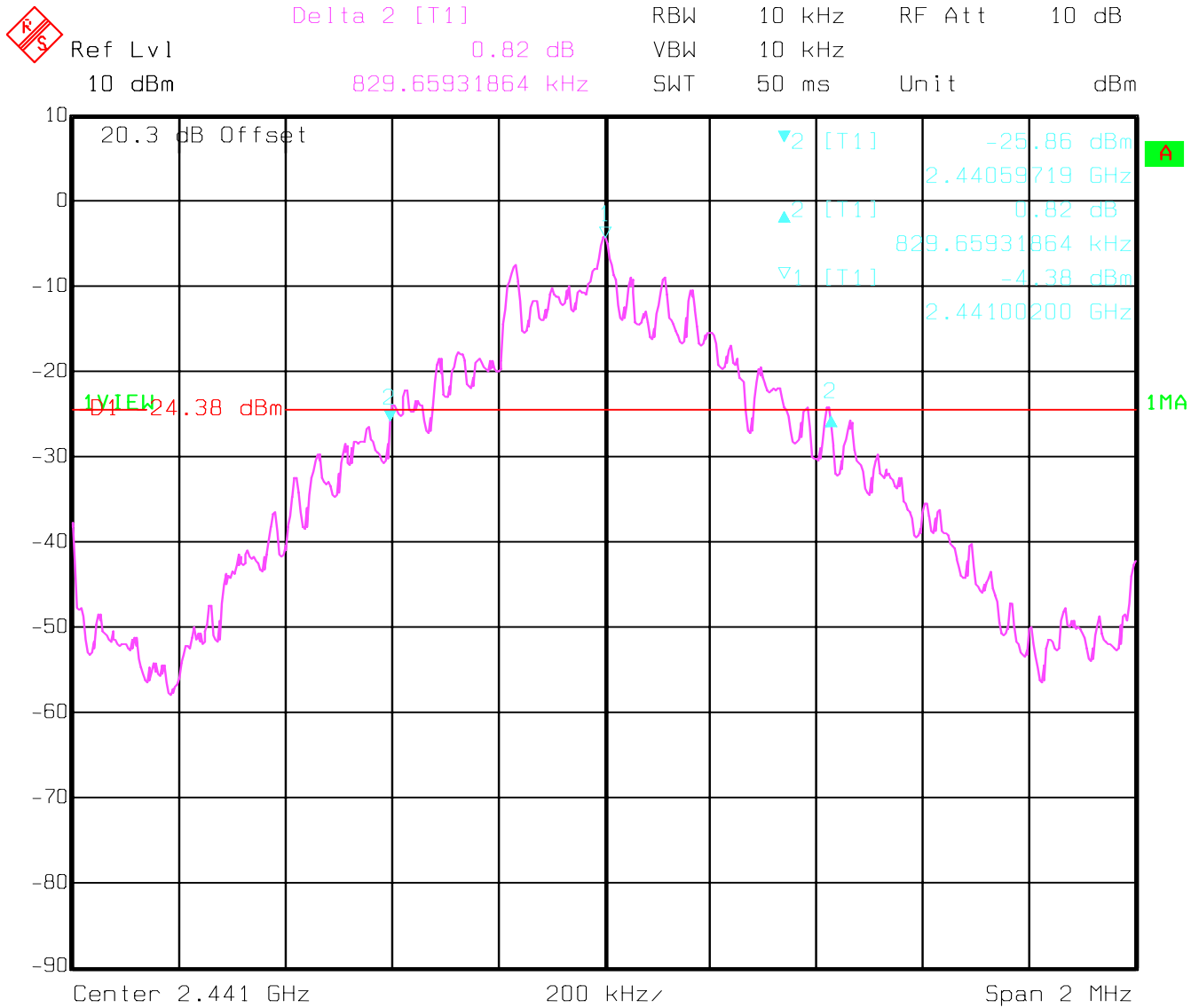


Date: 13.MAY 2005 19:07:12

SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Mid Channel: 2441MHz

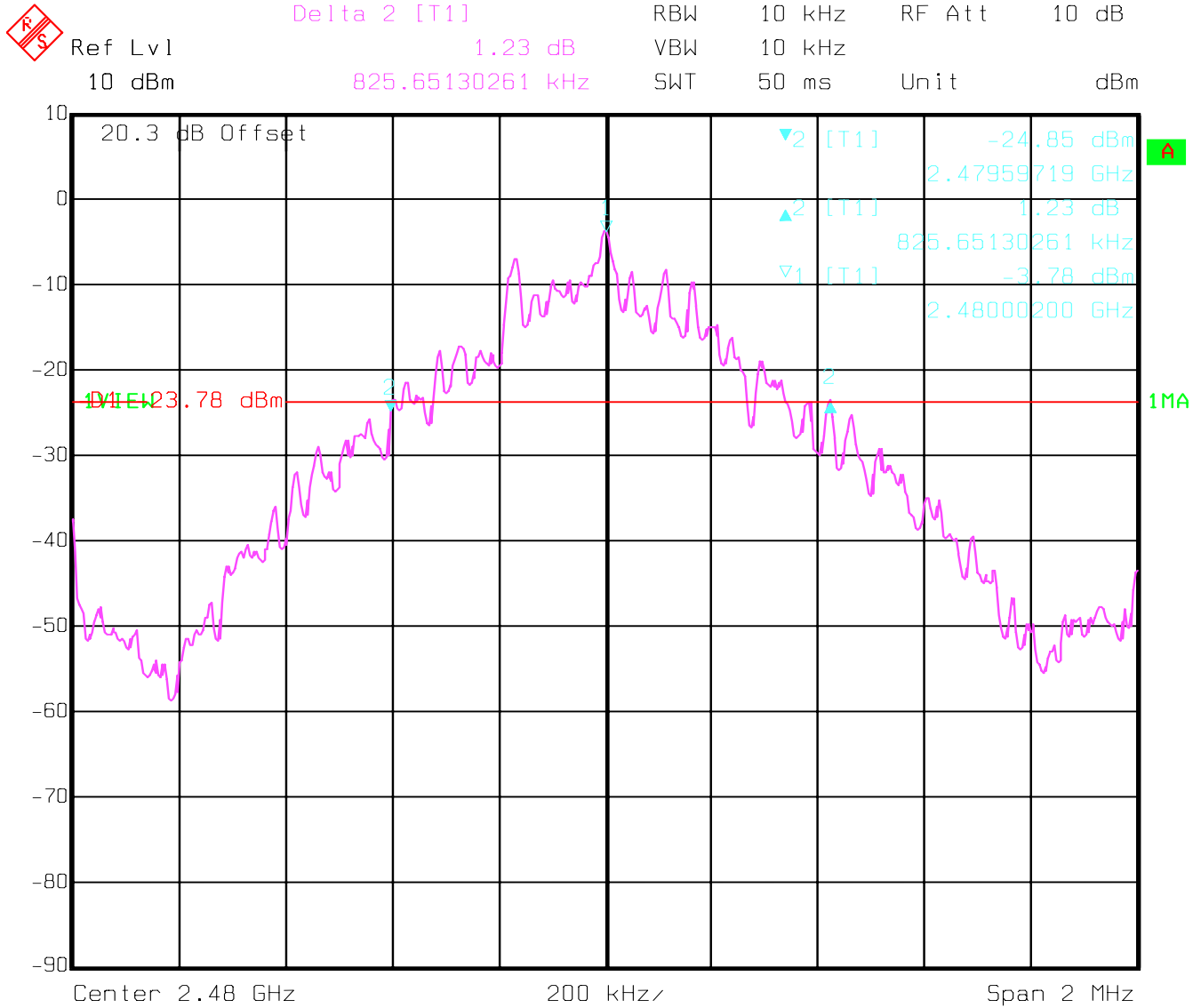


Date: 13.MAY 2005 19:10:05

SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Highest Channel: 2480MHz



Date: 13.MAY 2005 19:12:03

**MAXIMUM PEAK OUTPUT POWER
(Conducted)**

§ 15.247 (b) (3)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom}	-0.59	-0.45	-0.10
Measurement uncertainty		±0.5dBm		

RBW / VBW: 3 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (3)

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt

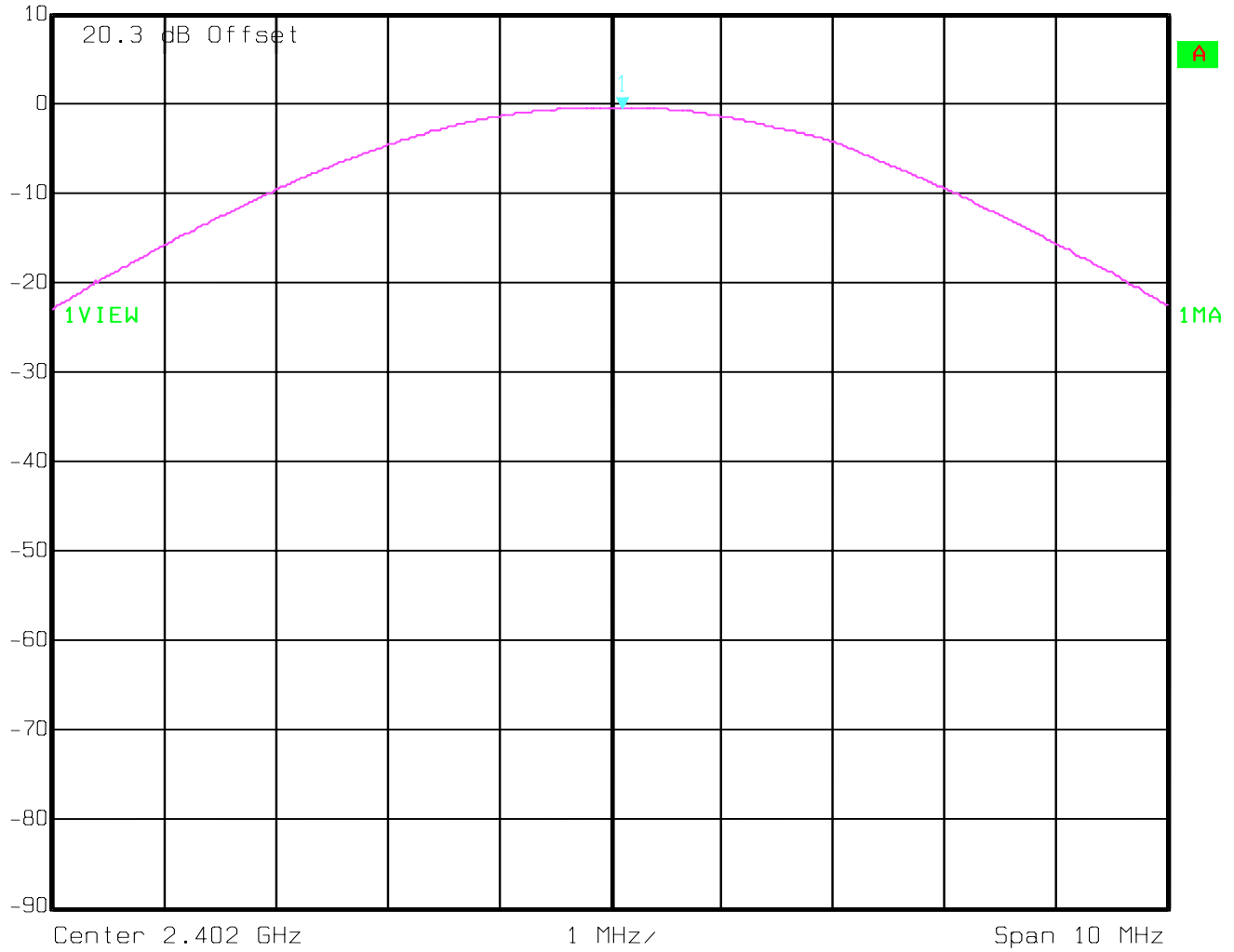
PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b) (3)

Lowest Channel: 2402MHz



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	10 dB
10 dBm	-0.59 dBm	VBW	3 MHz		
	2.40211022 GHz	SWT	5 ms	Unit	dBm



Date: 28.APR.2005 19:15:11

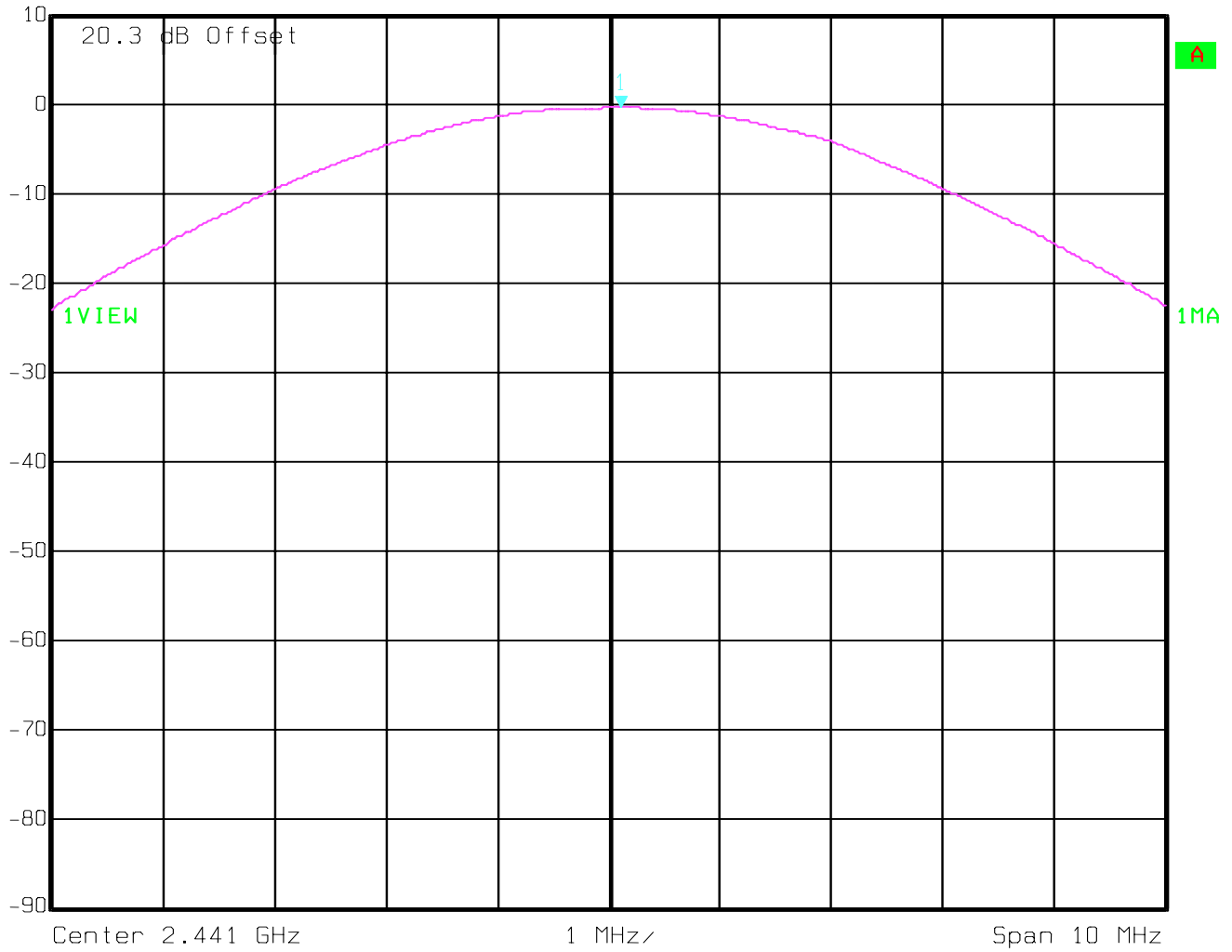
PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b) (3)

Mid Channel: 2441MHz



Ref Lvl	Marker 1 [T1]	RBW	3 MHz	RF Att	10 dB
10 dBm	-0.45 dBm	VBW	3 MHz		
	2.44111022 GHz	SWT	5 ms	Unit	dBm



Date: 28.APR.2005 19:16:10

PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b) (3)

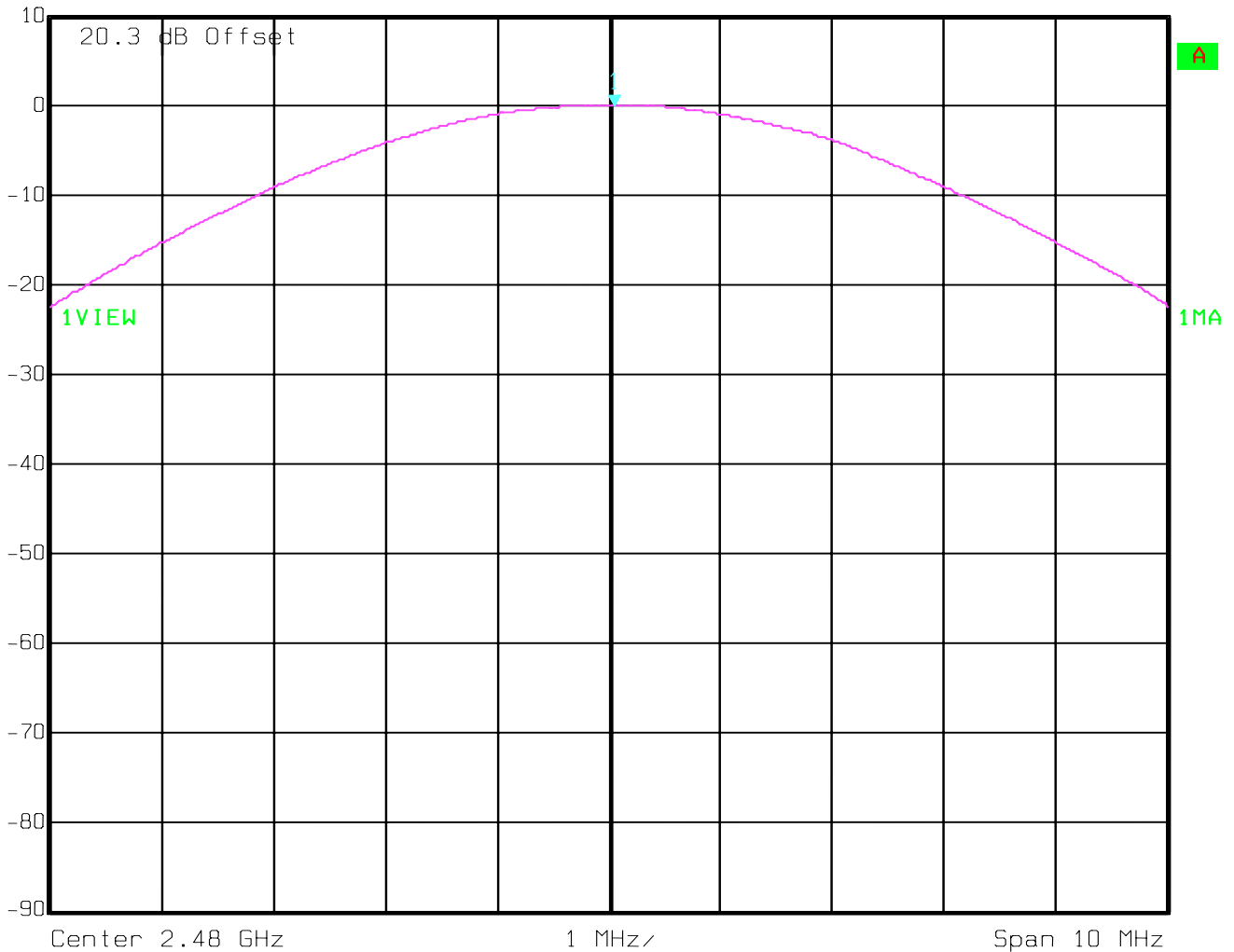
Highest Channel: 2480MHz



Ref Lvl
10 dBm

Marker 1 [T1]
-0.10 dBm
2.48005010 GHz

RBW 3 MHz RF Att 10 dB
VBW 3 MHz
SWT 5 ms Unit dBm



Date: 28.APR.2005 19:16:50

**MAXIMUM PEAK OUTPUT POWER
(RADIATED)**

§15.247 (b) (3)

EIRP:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
		2402	2441	2480
T_{nom} (23)°C	V_{nom}	-1.59	-1.92	-1.36
Measurement uncertainty		±0.5dBm		

RBW/VBW: 3 MHz

LIMIT

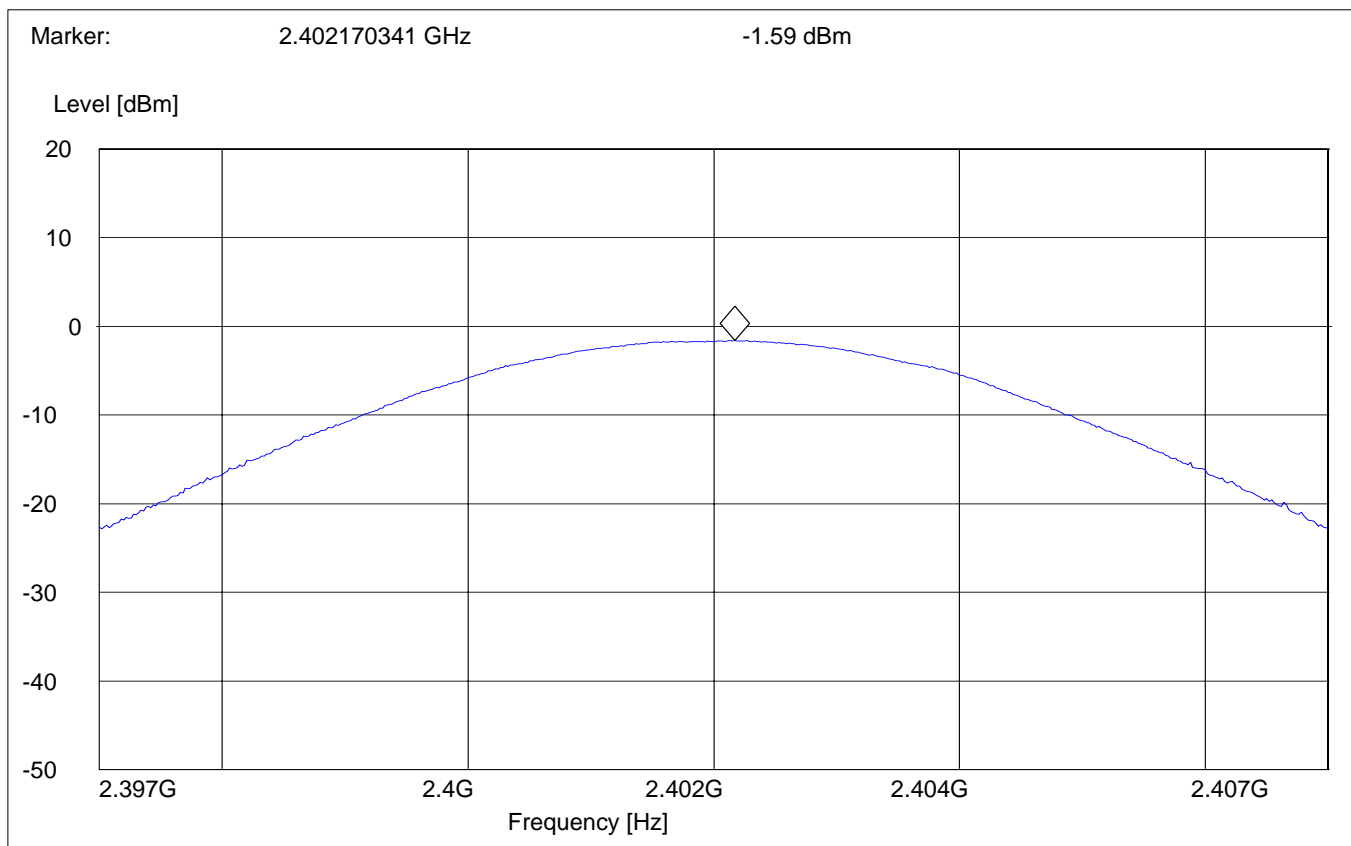
SUBCLAUSE §15.247 (b) (3)

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt

PEAK OUTPUT POWER (RADIATED)**§15.247 (b) (3)****Lowest Channel: 2402MHz**

SWEEP TABLE: "EIRP BT low channel"

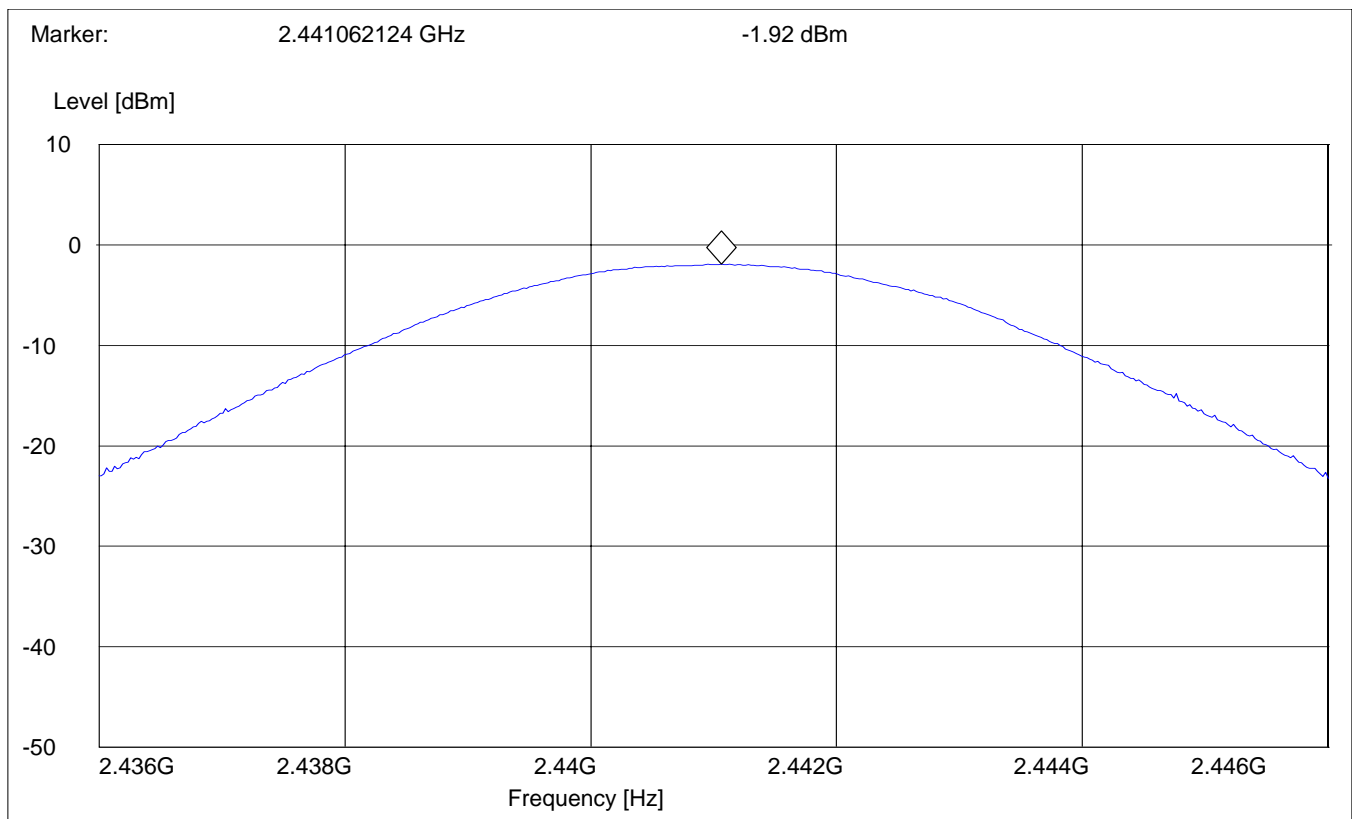
Short Description:		EIRP Bluetooth channel-2402MHz		
Start	Stop	Detector	Meas.	IF
Frequency	Frequency		Time	BW
2.397GHz	2.407GHz	MaxPeak	Coupled	3 MHz



PEAK OUTPUT POWER (RADIATED)**§15.247 (b) (3)****Mid Channel: 2441MHz**

SWEEP TABLE: "EIRP BT Mid channel"

Short Description:		EIRP Bluetooth channel-2441MHz		
Start	Stop	Detector	Meas.	IF
Frequency	Frequency	Time	BW	
2.436GHz	2.446GHz	MaxPeak	Coupled	3 MHz



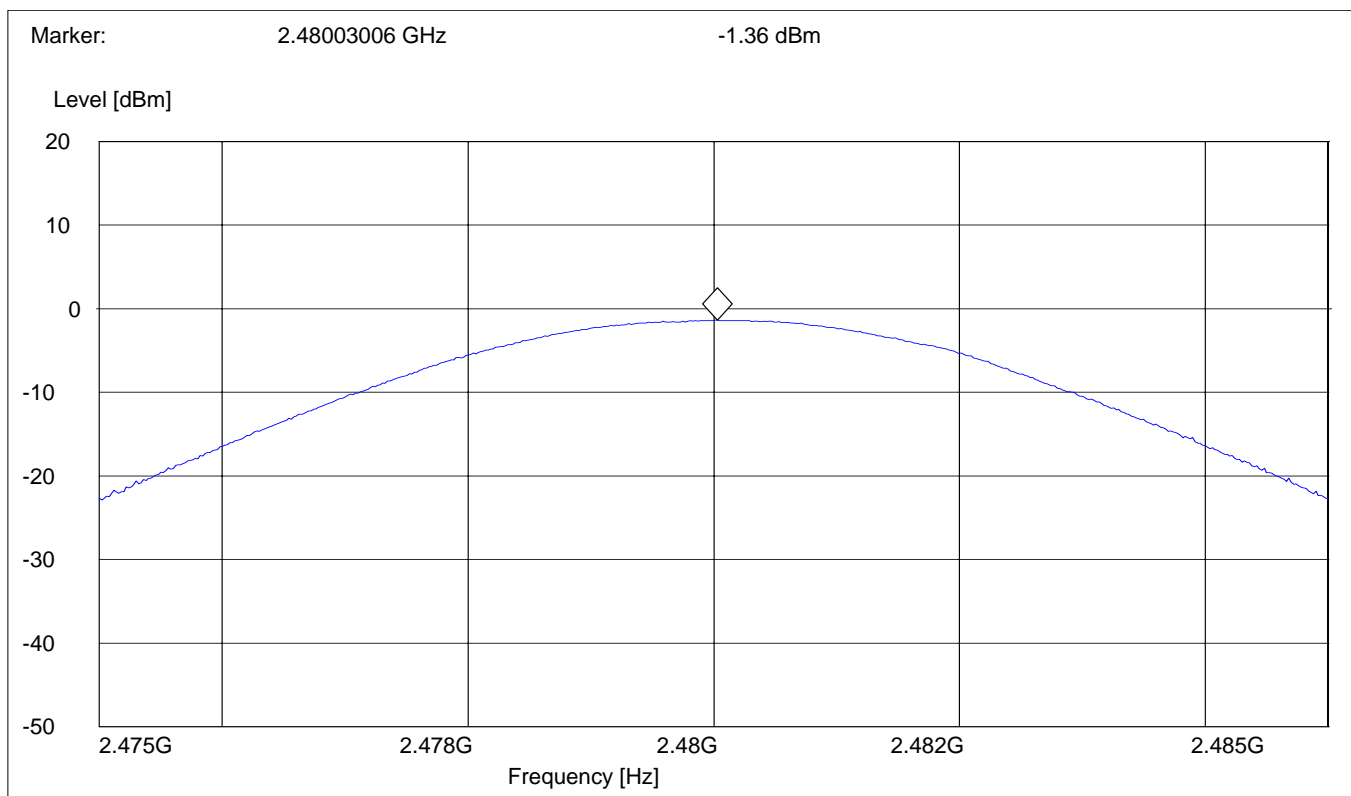
PEAK OUTPUT POWER (RADIATED)**§15.247 (b) (3)****Highest Channel: 2480MHz**

SWEEP TABLE: "EIRP BT High channel"

Short Description: EIRP Bluetooth channel-2480MHz

Start	Stop	Detector	Meas.	IF
Frequency	Frequency		Time	BW
2.475GHz	2.485GHz	MaxPeak	Coupled	3 MHz

EIRP Bluetooth channel-2480MHz



BAND EDGE COMPLIANCE

§15.247 (d)

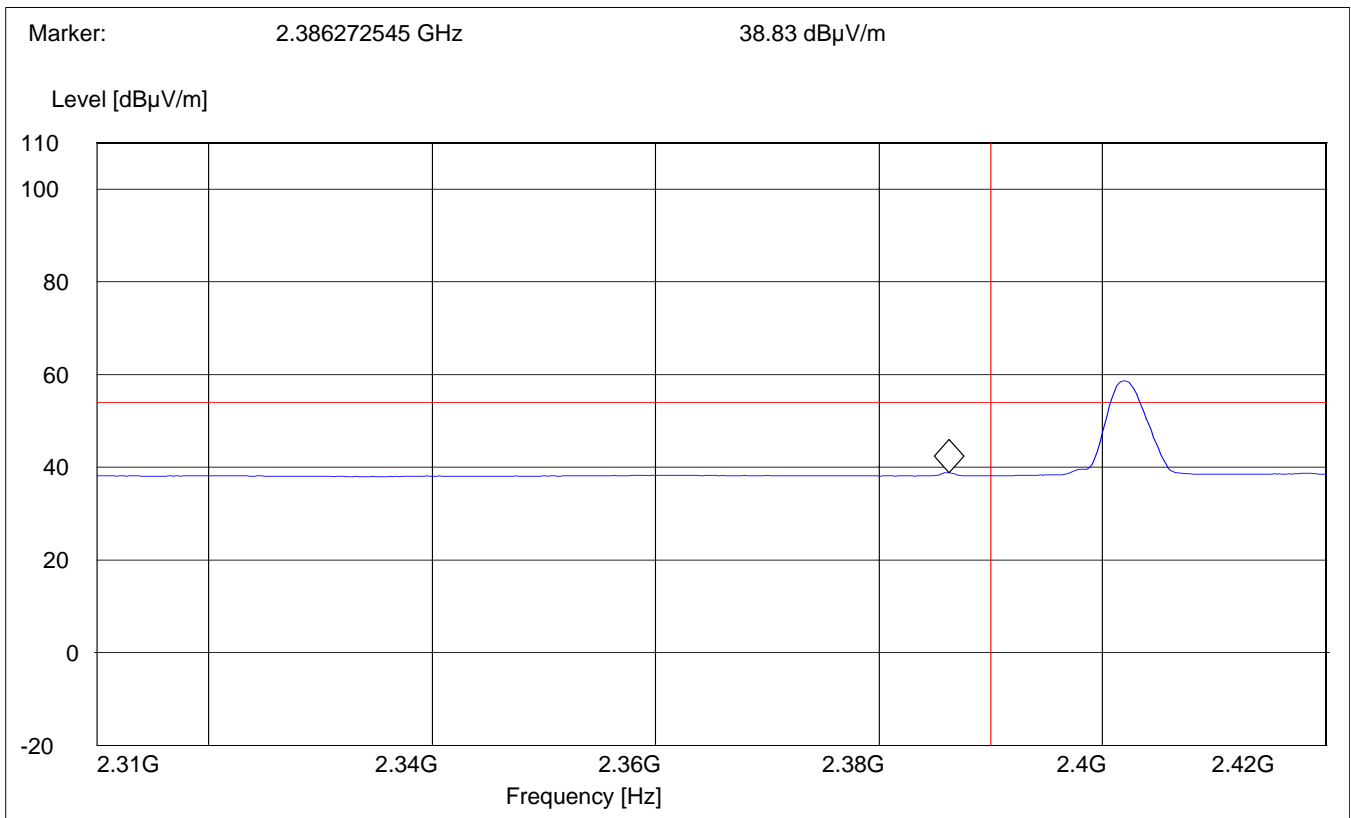
Low frequency section (spurious in the restricted band 2310 – 2390 MHz)

Average Measurement

(This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2402MHz
 SWEEP TABLE : "FCC15.247 LBE_AVG"
 Short Description : FCC15.247 BT Low-band-edge
 Limit Line : 54dB μ V

Start Frequency	Stop Frequency	Detector	Meas. Bandw.	RBW	VBW	Transducer
2.31 GHz	2.412 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)



BAND EDGE COMPLIANCE

§15.247 (d)

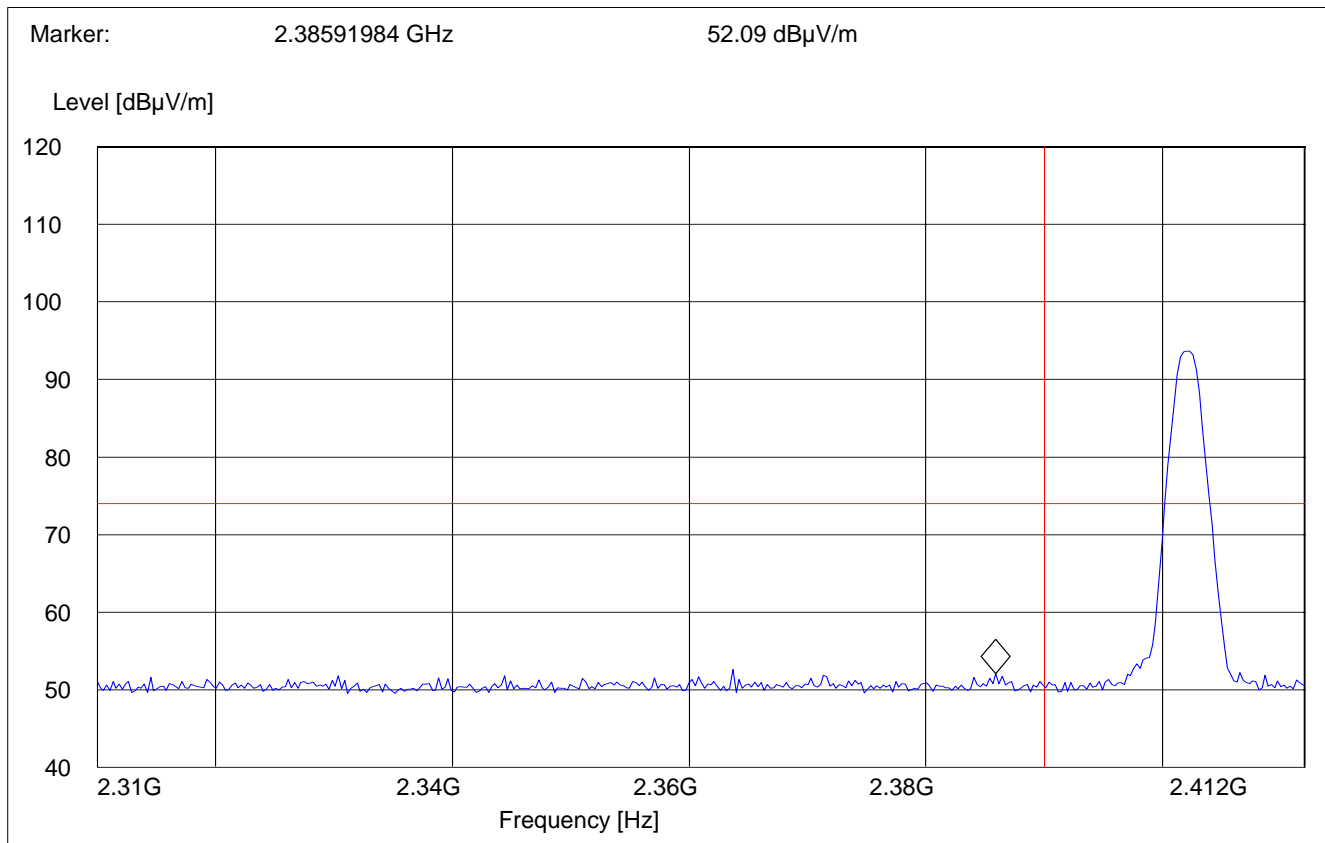
Low frequency section (spurious in the restricted band 2310 – 2390 MHz)

Peak Measurement

(This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2402MHz
 SWEEP TABLE : "FCC15.247 LBE_Pk"
 Short Description : FCC15.247 BT Low-band-edge
 Limit Line : 74dB μ V

Start Frequency	Stop Frequency	Detector	Meas. Bandw.	RBW	VBW	Transducer
2.31 GHz	2.412 GHz	MaxPeak	Coupled	1 MHz	1MHz	#326 horn (dBi)



BAND EDGE COMPLIANCE

§15.247 (d)

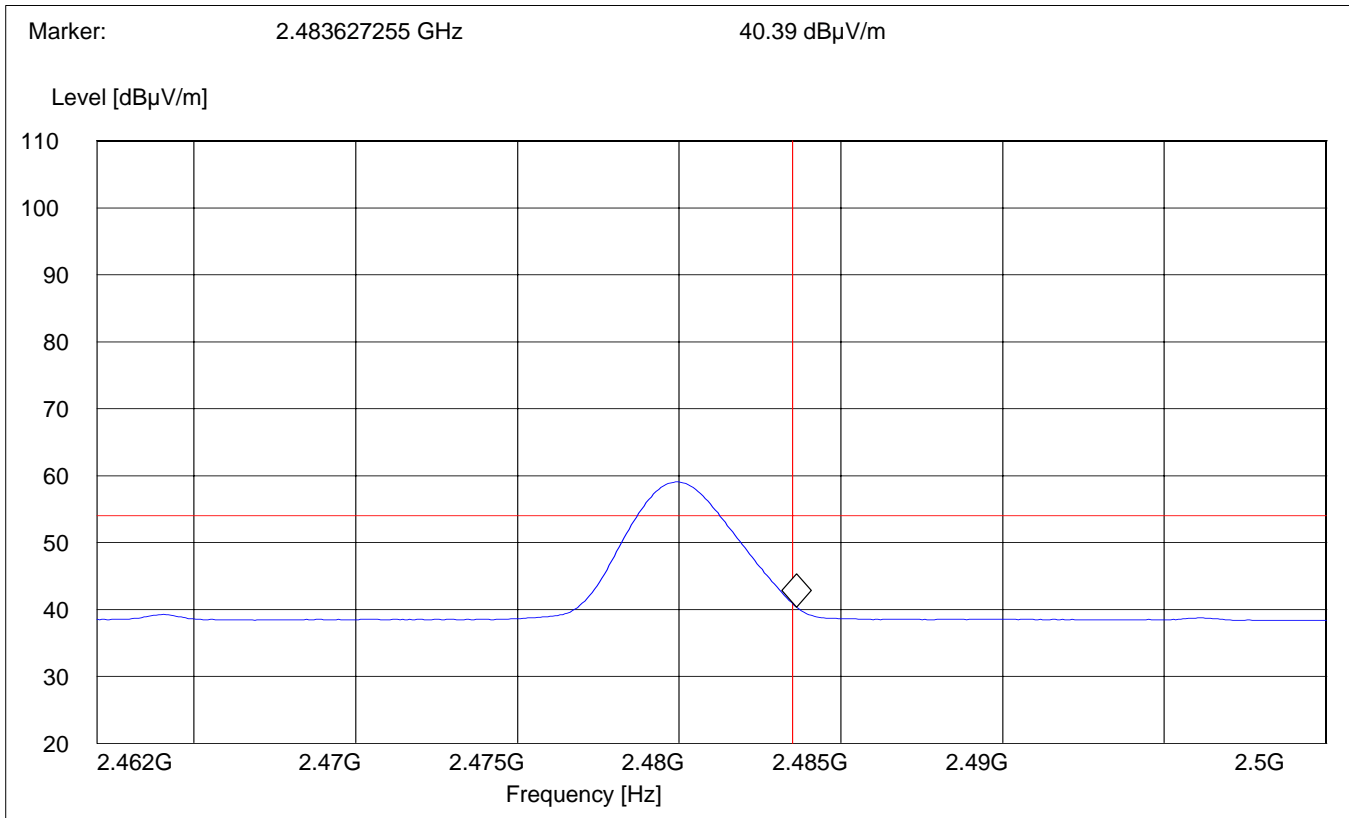
High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)

Average Measurement

(This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2480MHz
 SWEEP TABLE : "FCC15.247 HBE_AVG"
 Short Description : FCC15.247 BT High-band-edge
 Limit Line : 54dB μ V

Start Frequency	Stop Frequency	Detector Time	Meas. Bandw.	RBW	VBW	Transducer
2.462 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)



BAND EDGE COMPLIANCE

§15.247 (d)

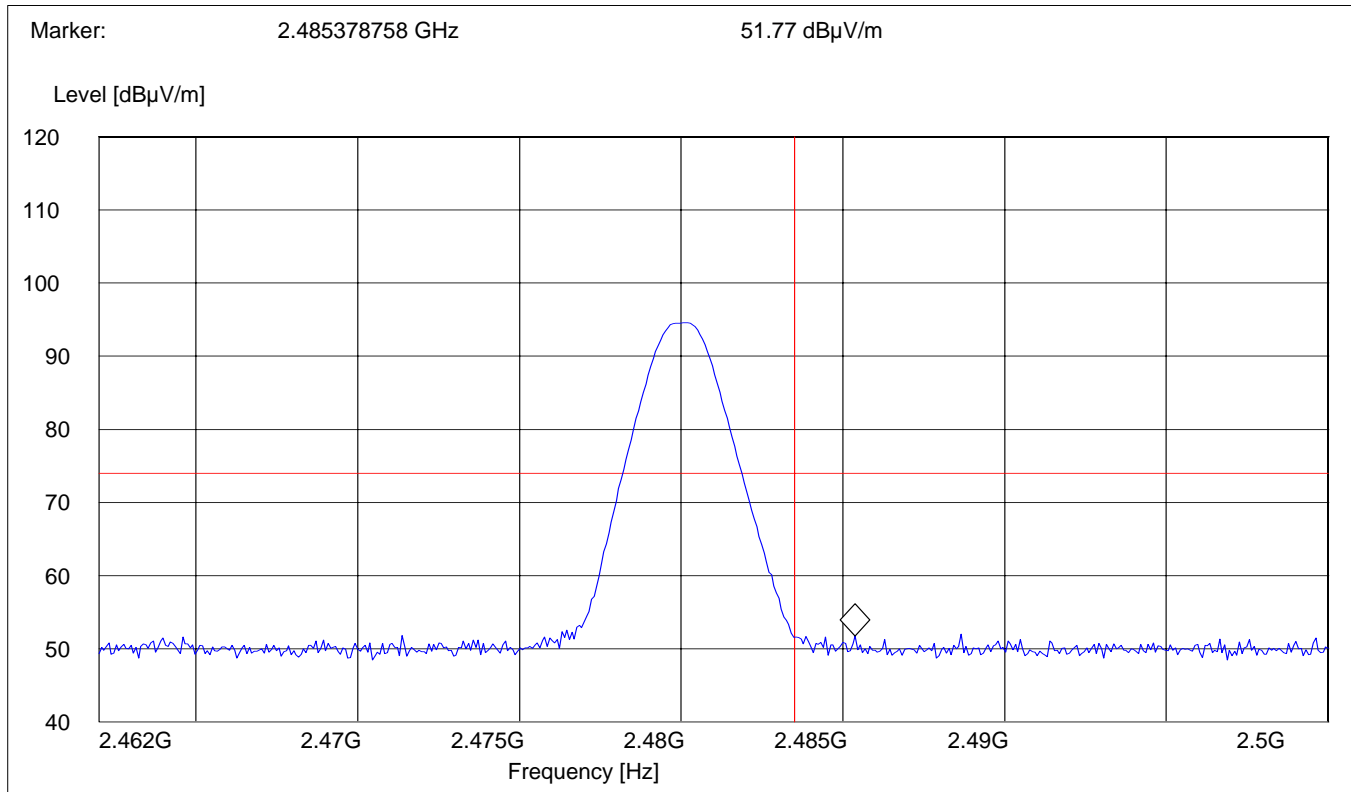
High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)

Peak Measurement

(This plot is valid for both Hopping ON & OFF)

Operating condition : Tx at 2480MHz
 SWEEP TABLE : "FCC15.247 HBE_PK"
 Short Description : FCC15.247 BT High-band-edge
 Limit Line : 74dB μ V

Start Frequency	Stop Frequency	Detector Time	Meas. Bandw.	RBW	VBW	Transducer
2.462 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	1MHz	#326 horn (dBi)



**EMISSION LIMITATIONS
Transmitter (Conducted)
LIMITS****§15.247 (d)**

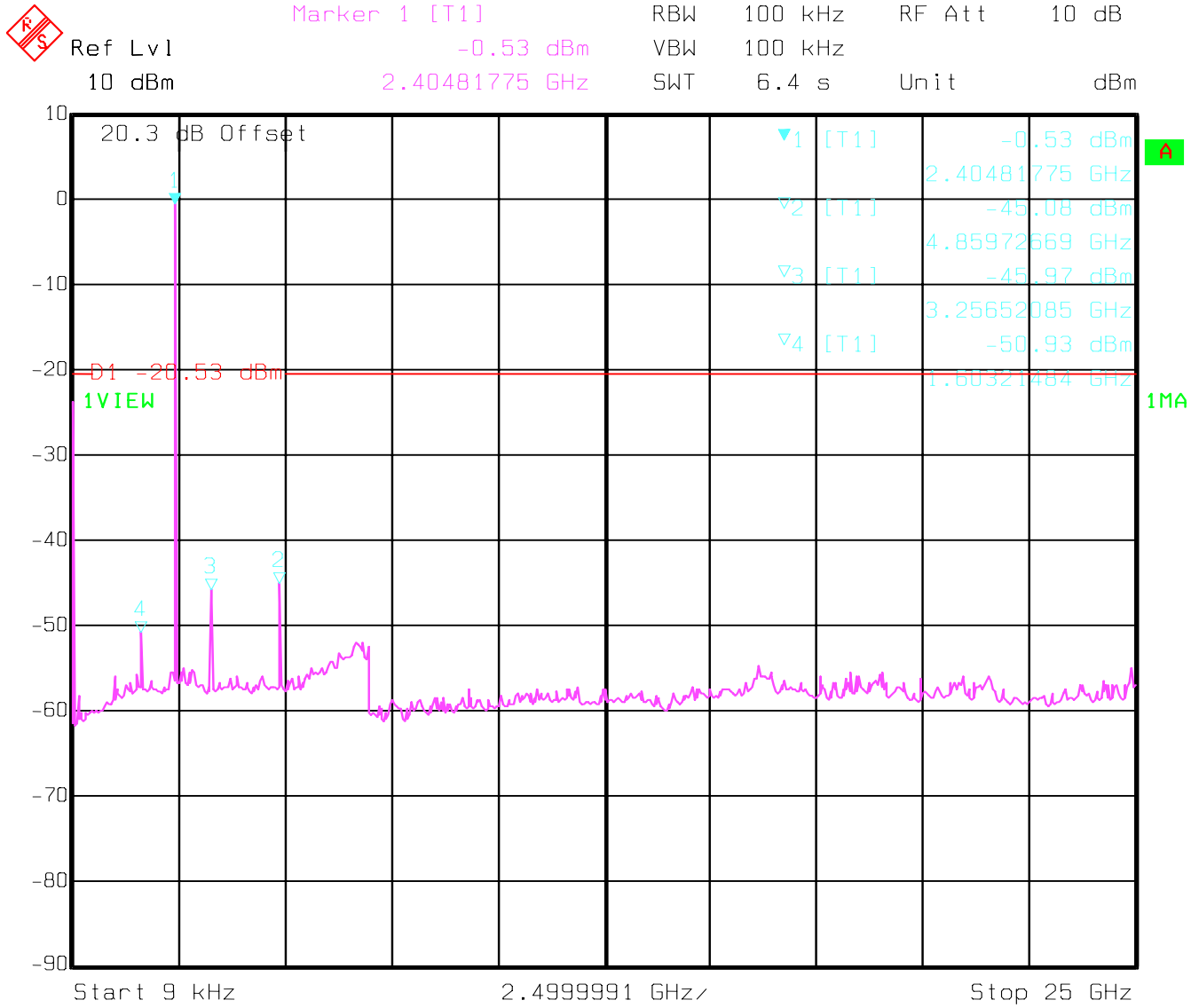
In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions that fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

NOTE: Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

EMISSION LIMITATIONS - Conducted (Transmitter)

§15.247 (d)

Mid Channel (2441MHz): 9KHz - 25GHz

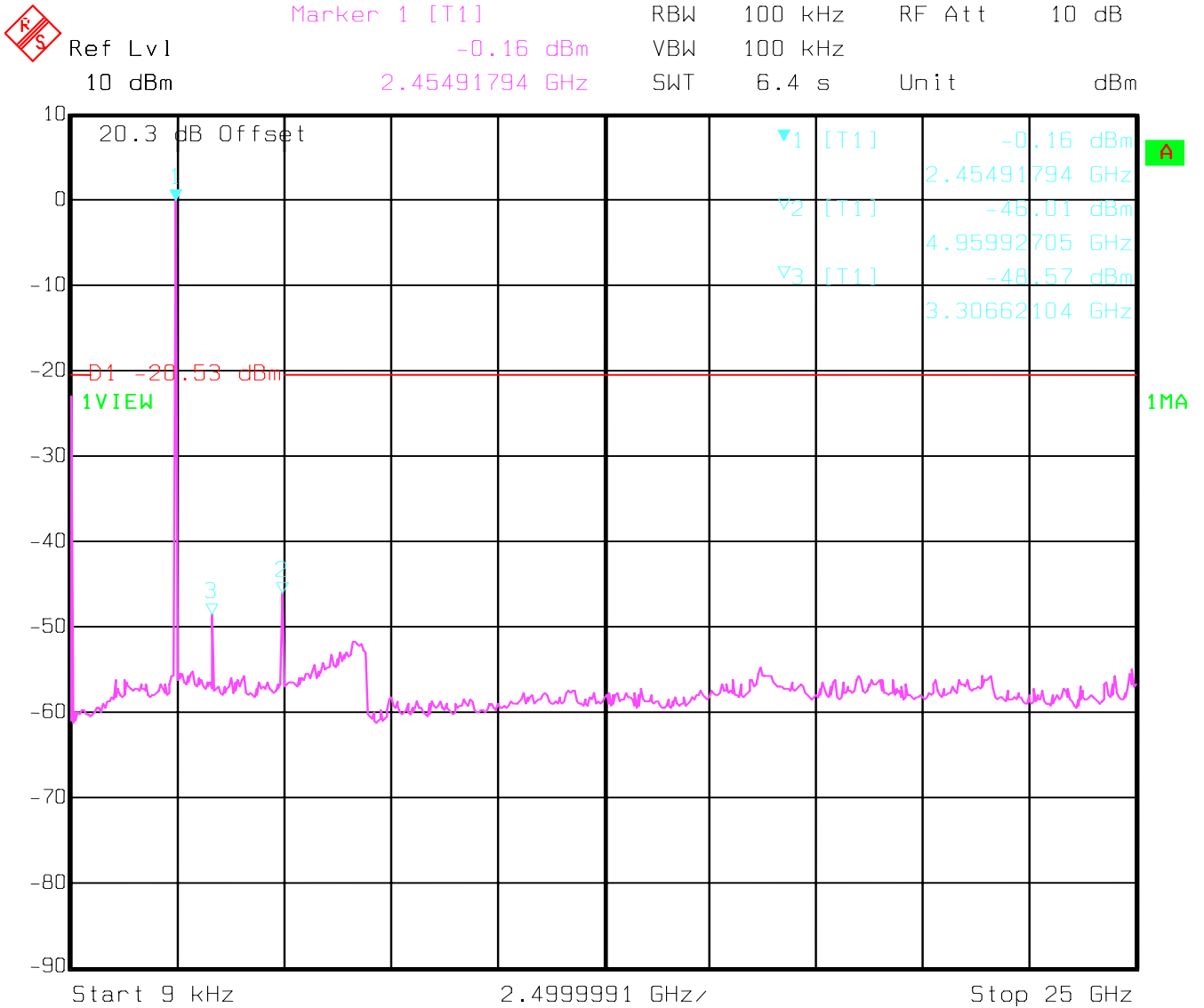


Date: 28.APR.2005 20:56:57

EMISSION LIMITATIONS - Conducted (Transmitter)

§15.247 (d)

Highest Channel (2480MHz): 9KHz - 25GHz



Date: 28.APR.2005 20:59:35

EMISSION LIMITATIONS
Transmitter (Radiated)

§15.247 (d)

LIMITS

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions that fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

NOTE:

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
2. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.
3. All measurements are done in peak mode unless specified with plots.

Results for the radiated measurements below 30MHz according § 15.33

Frequency	Measured values	Remarks
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels

EMISSION LIMITATIONS - Radiated (Transmitter)

§15.247 (d)

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

Transmit at Lowest channel Frequency 2402MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
4803.6	68.55		45.63
Transmit at Middle channel Frequency 2441MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
4863.7	69.4		45.25
Transmit at Highest channel Frequency 2480MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
4883.7	69.48		44.56

EMISSION LIMITATIONS - Radiated (Transmitter)

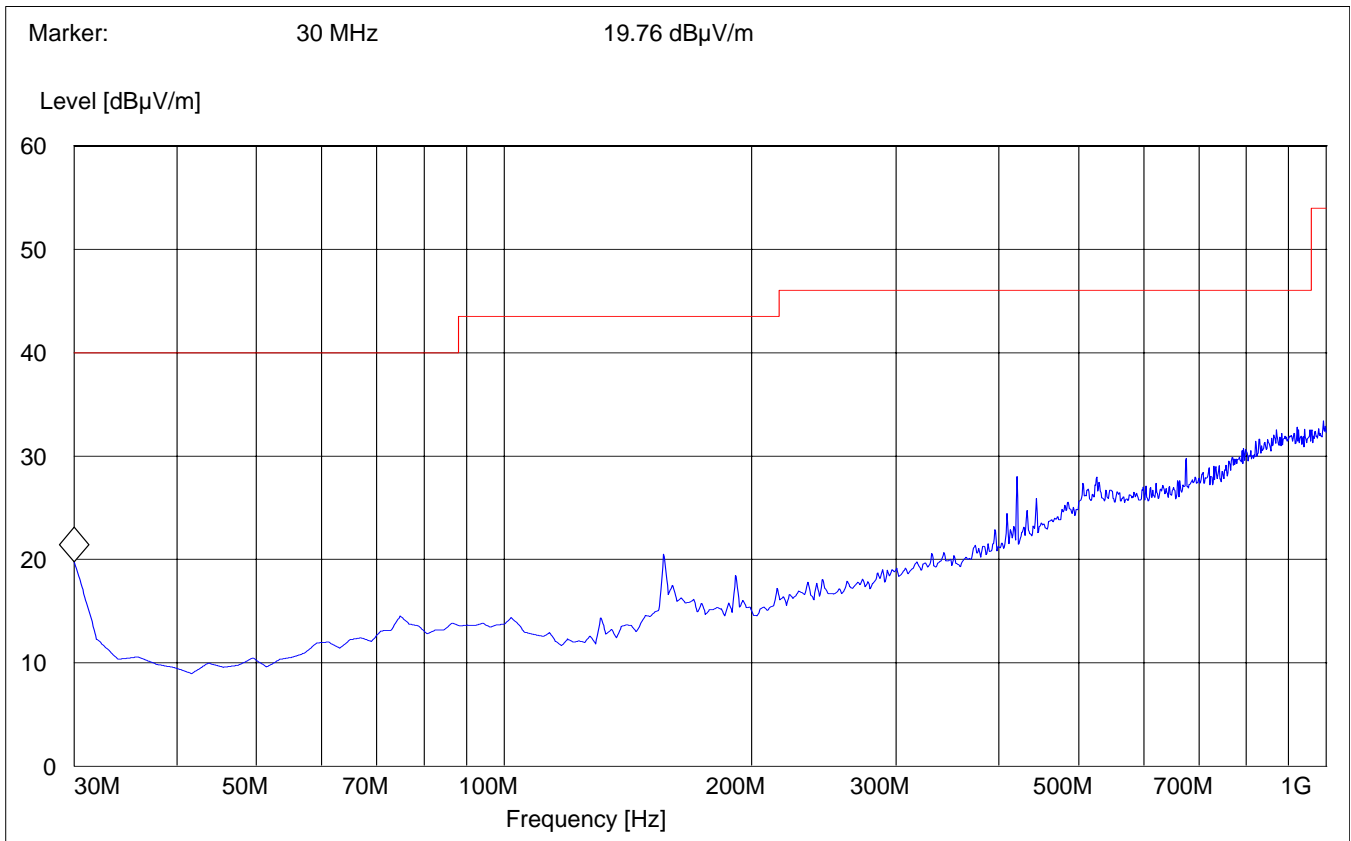
§15.247 (d)

30MHz – 1GHz

Antenna: vertical

Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE:		"BT Spuri hi 30-1G"			
Short Description:		Bluetooth 30MHz-1GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency		Time	VBW	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186



EMISSION LIMITATIONS - Radiated (Transmitter)

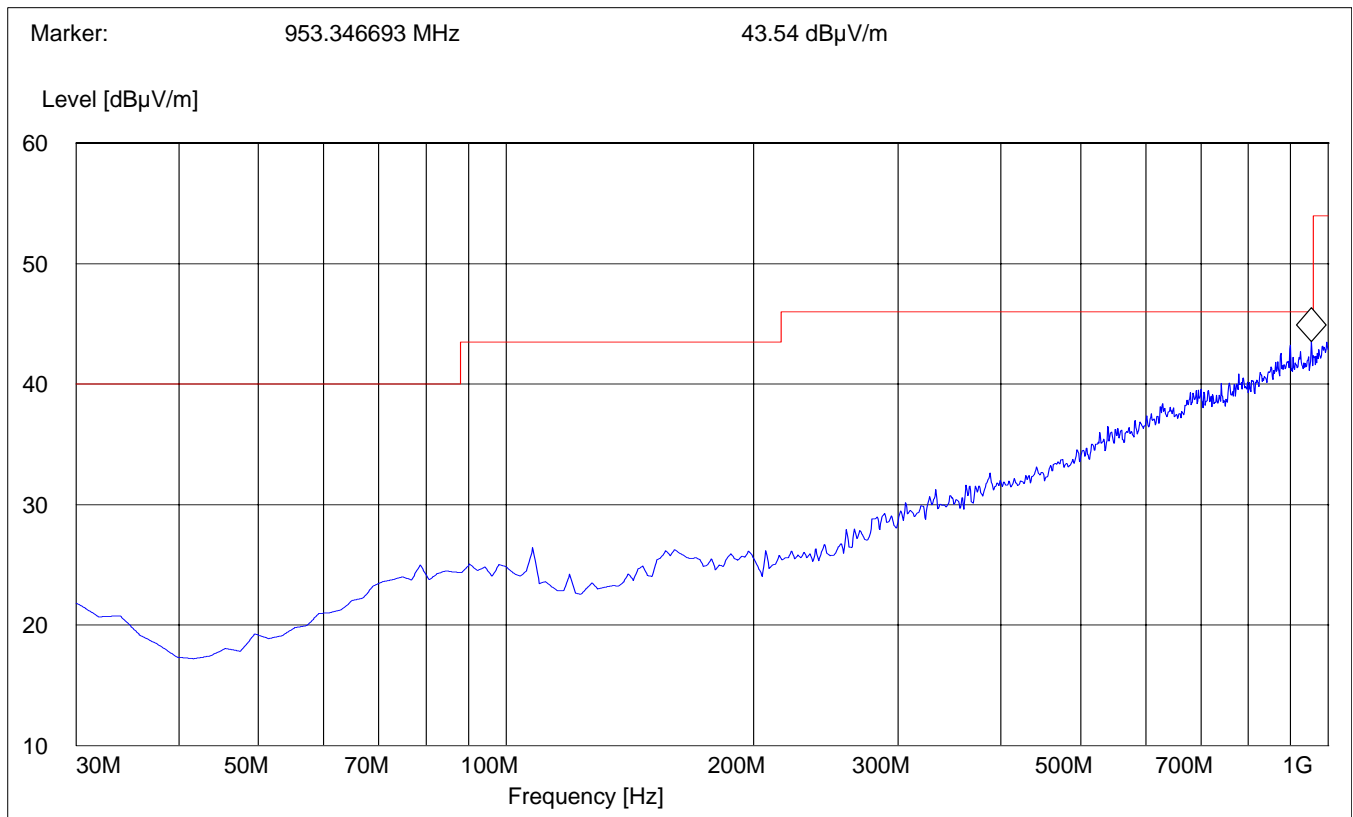
§15.247 (d)

30MHz – 1GHz

Antenna: horizontal

Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE:		"BT Spuri hi 30-1G"			
Short Description:		Bluetooth 30MHz-1GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency		Time	VBW	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186

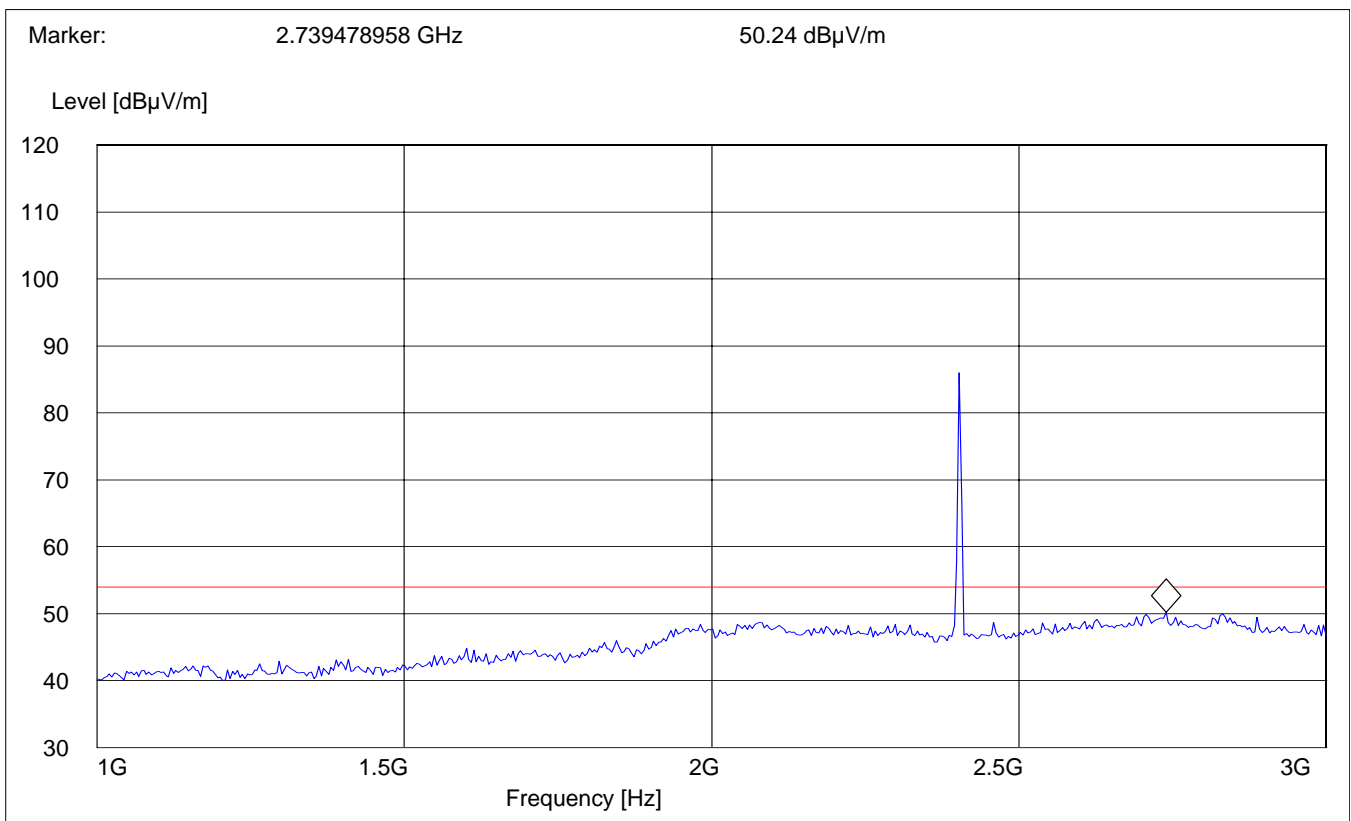


EMISSION LIMITATIONS - Radiated (Transmitter)
Lowest Channel (2402MHz): 1GHz – 3GHz

§15.247 (d)

NOTE: The peak above the limit is the carrier frequency.

SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



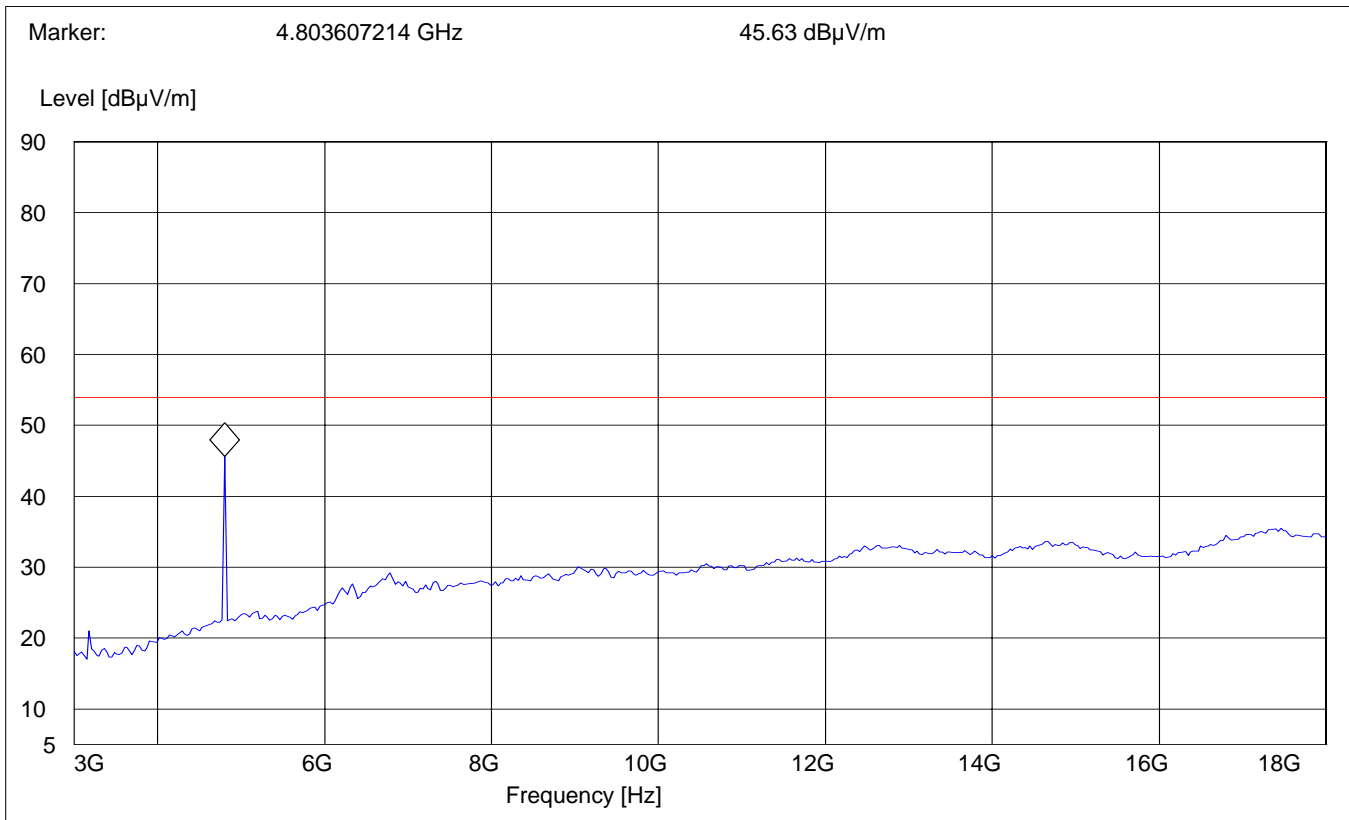
EMISSION LIMITATIONS - Radiated (Transmitter)

§15.247 (d)

Lowest Channel (2402MHz): 3GHz – 18GHz

Average

SWEEP TABLE:		"BT Spuri hi 3-18G"				
Short Description:		Bluetooth Spurious 3-18 GHz				
Start	Stop	Detector	Meas.	RBW		Transducer
Frequency	Frequency	Time	Bandw.		VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)

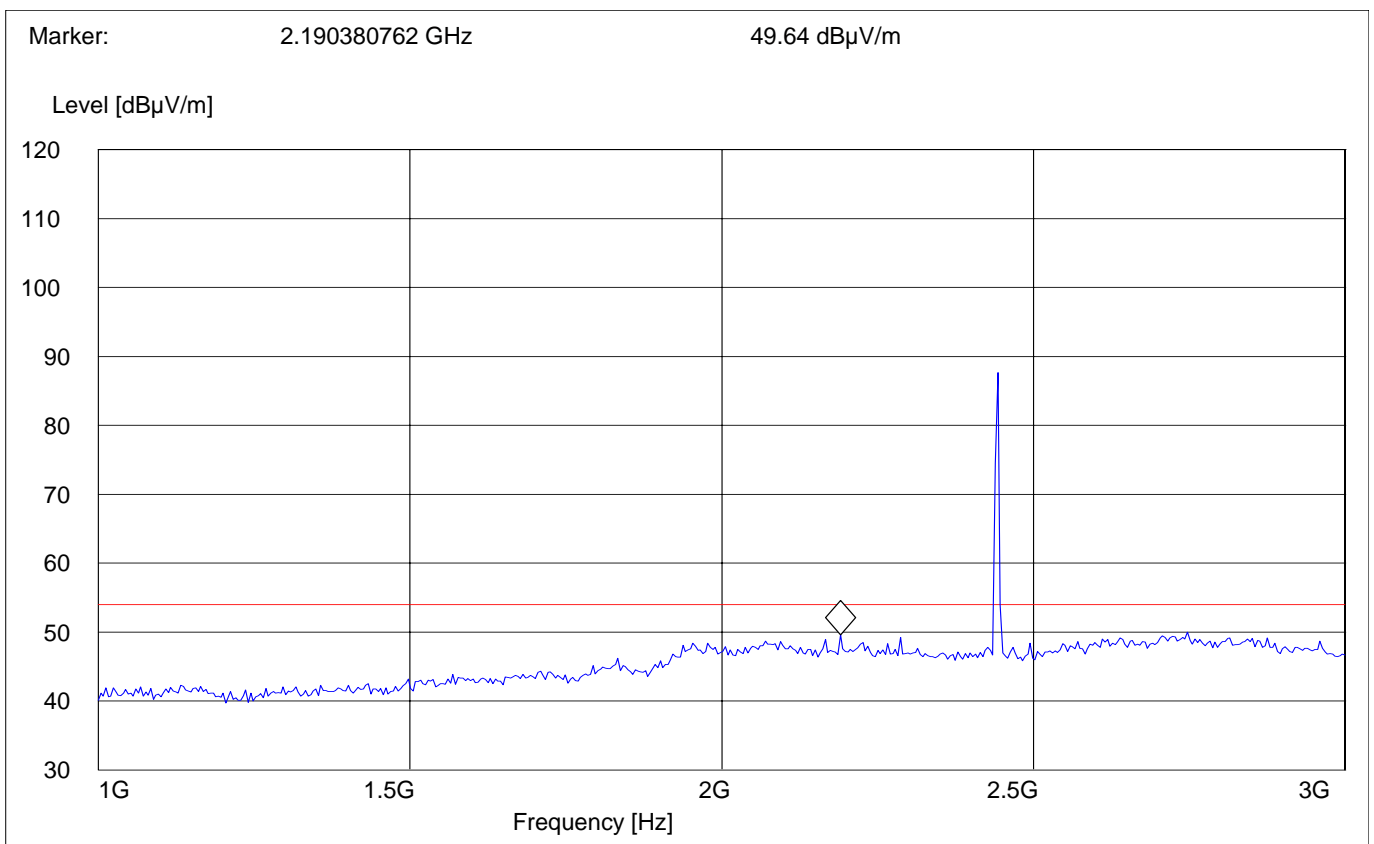


EMISSION LIMITATIONS - Radiated (Transmitter)
Middle Channel (2441MHz): 1GHz – 3GHz

§15.247 (d)

NOTE: The peak above the limit is the carrier frequency.

SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



EMISSION LIMITATIONS - Radiated (Transmitter)

§15.247 (d)

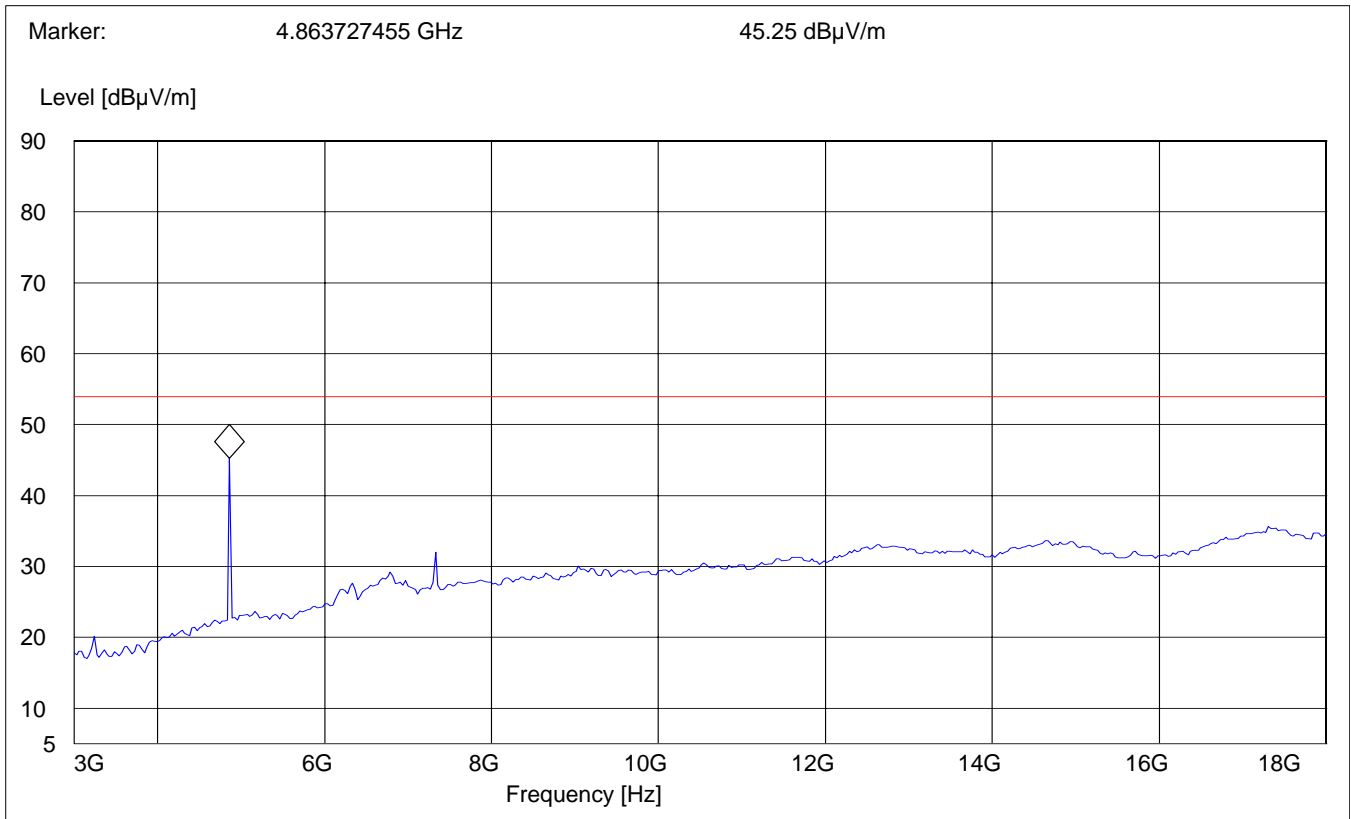
Middle Channel (2441MHz): 3GHz – 18GHz

Average

SWEEP TABLE: "BT Spuri hi 3-18G"

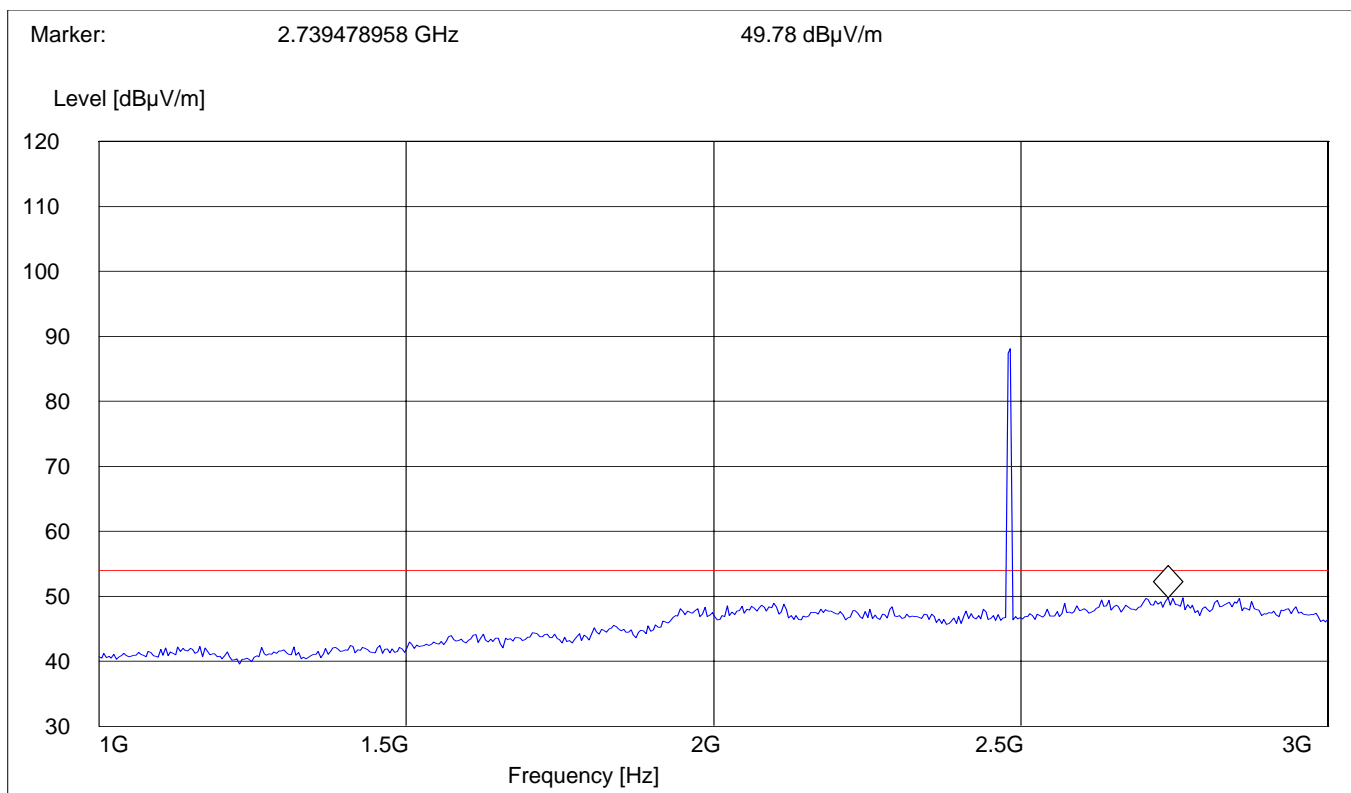
Short Description: Bluetooth Spurious 3-18GHz

Start Frequency	Stop Frequency	Detector	Meas. Bandw.	RBW	VBW	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)



EMISSION LIMITATIONS - Radiated (Transmitter)
Highest Channel (2480MHz): 1GHz – 3GHz**§15.247 (d)****NOTE: The peak above the limit is the carrier frequency.**

SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



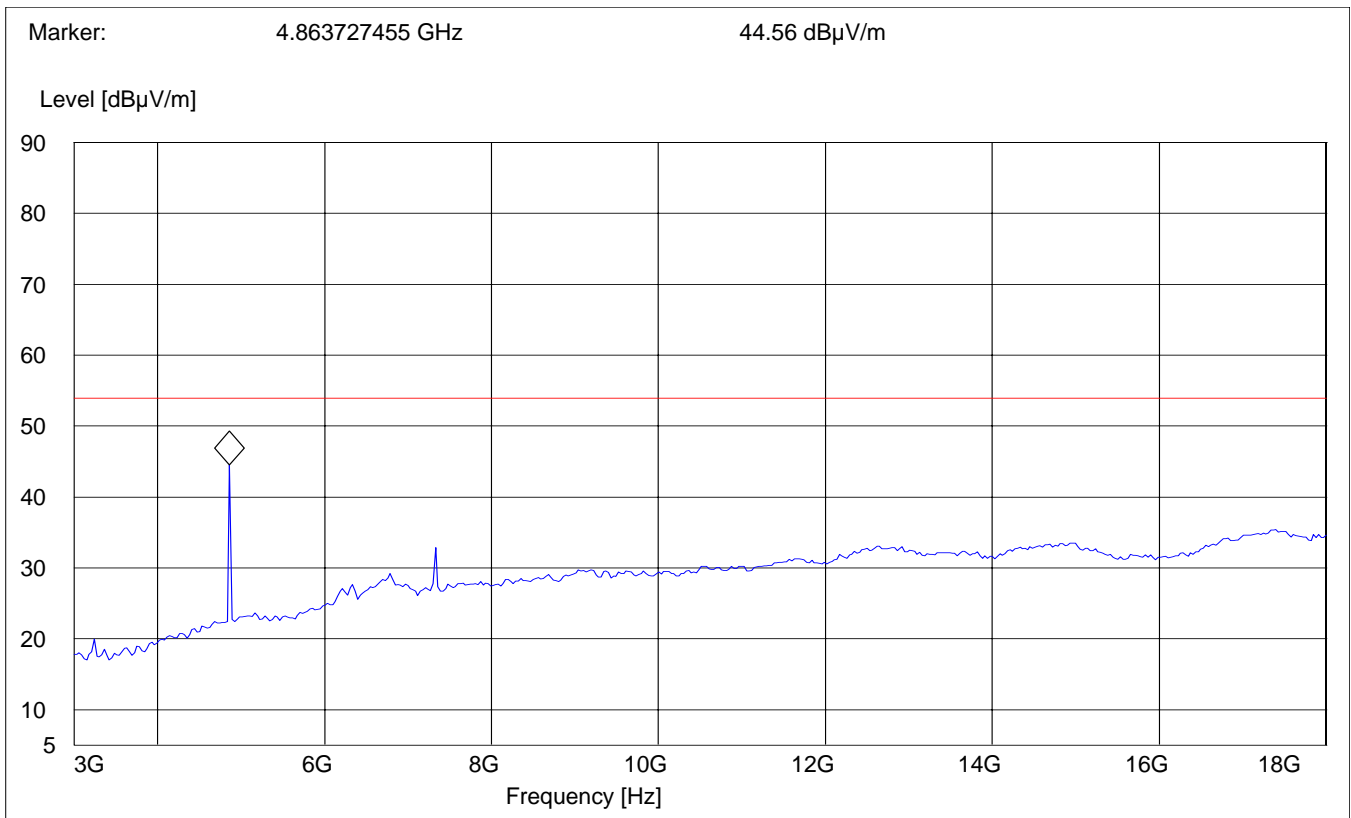
EMISSION LIMITATIONS - Radiated (Transmitter)

§15.247 (d)

Highest Channel (2480MHz): 3GHz – 18GHz

Average

SWEEP TABLE:		"BT Spuri hi 3-18G"				
Short Description:		Bluetooth Spurious 3-18GHz				
Start	Stop	Detector	Meas.	RBW		Transducer
Frequency	Frequency	Time	Bandw.		VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)

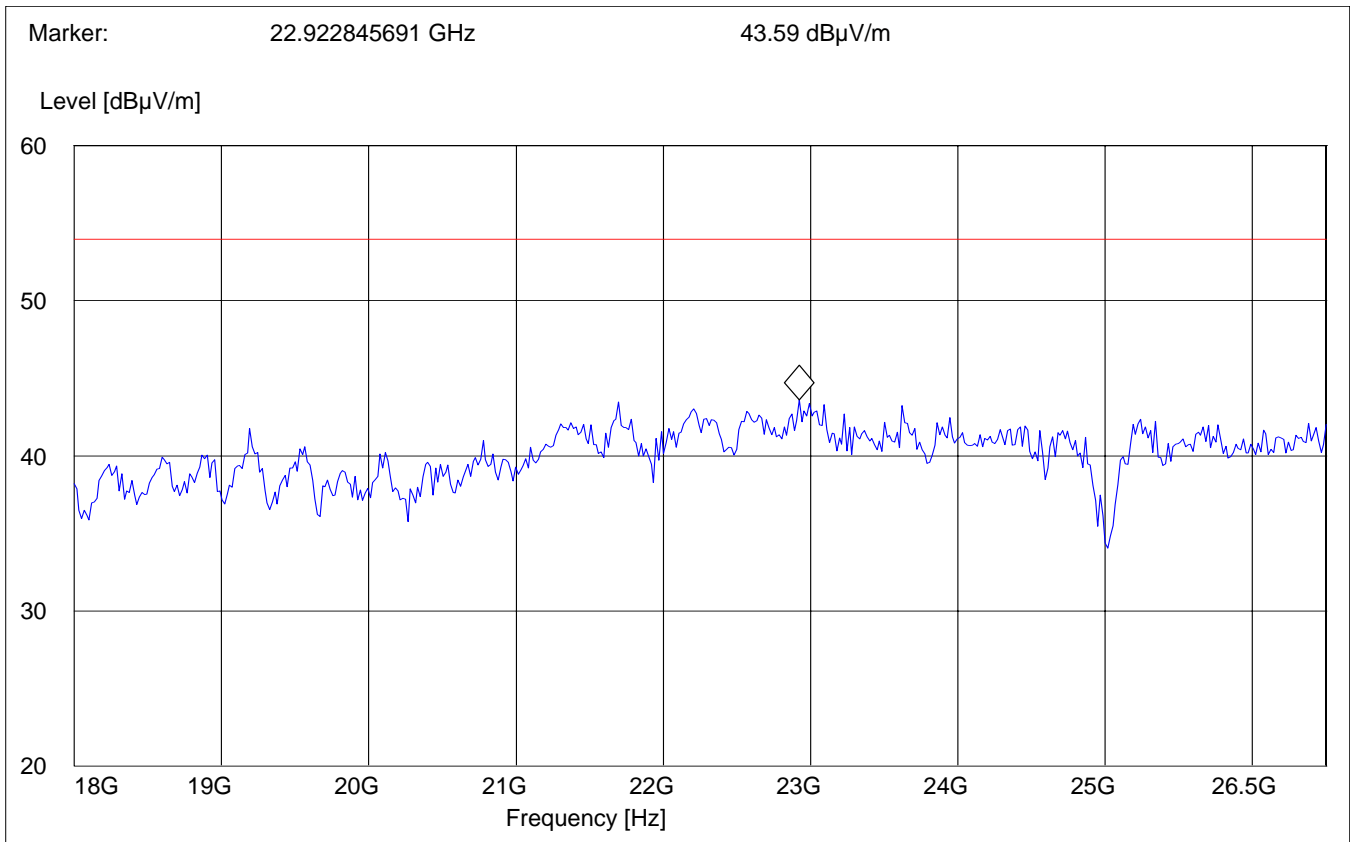


EMISSION LIMITATIONS - Radiated (Transmitter)
18GHz – 26.5GHz

§15.247 (d)

Note: This plot is valid for low, mid & high channels (worst-case plot)

SWEEP TABLE:		"BT Spuri hi 18-26.5G"			
Short Description:		Bluetooth Spurious 18-26.5GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
18 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#141 horn (dBi)



CONDUCTED EMISSIONS

§ 15.107/207

Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)

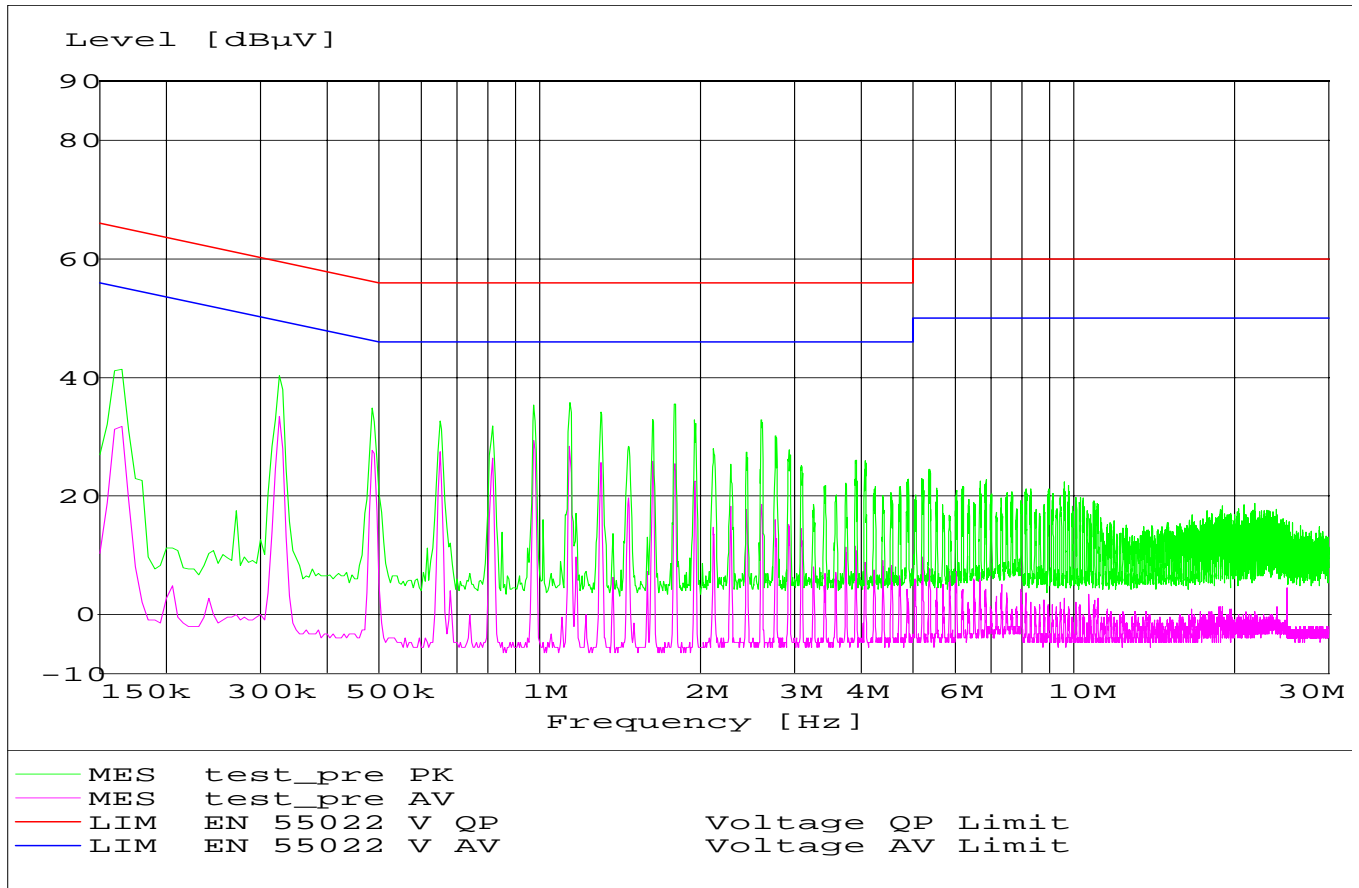
Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with logarithm of the frequency

ANALYZER SETTINGS: RBW = 10KHz

VBW = 10KHz



RECEIVER SPURIOUS RADIATION

§ 15.209

Limits

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

NOTE:

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
2. All measurements are done in peak mode unless specified with the plots.

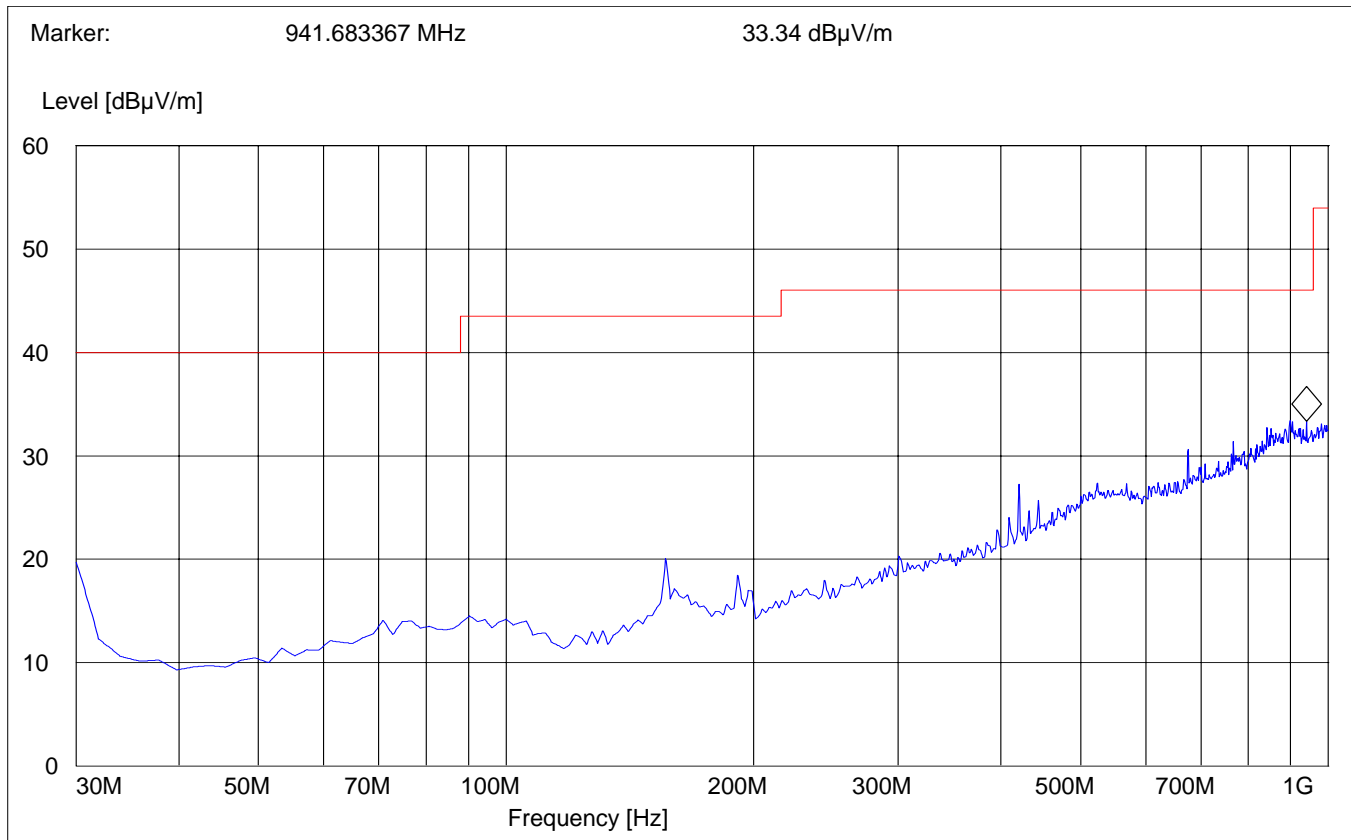
**RECEIVER SPURIOUS RADIATION
30MHz – 1GHz**

§ 15.209

Antenna: vertical (worst-case plot)

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

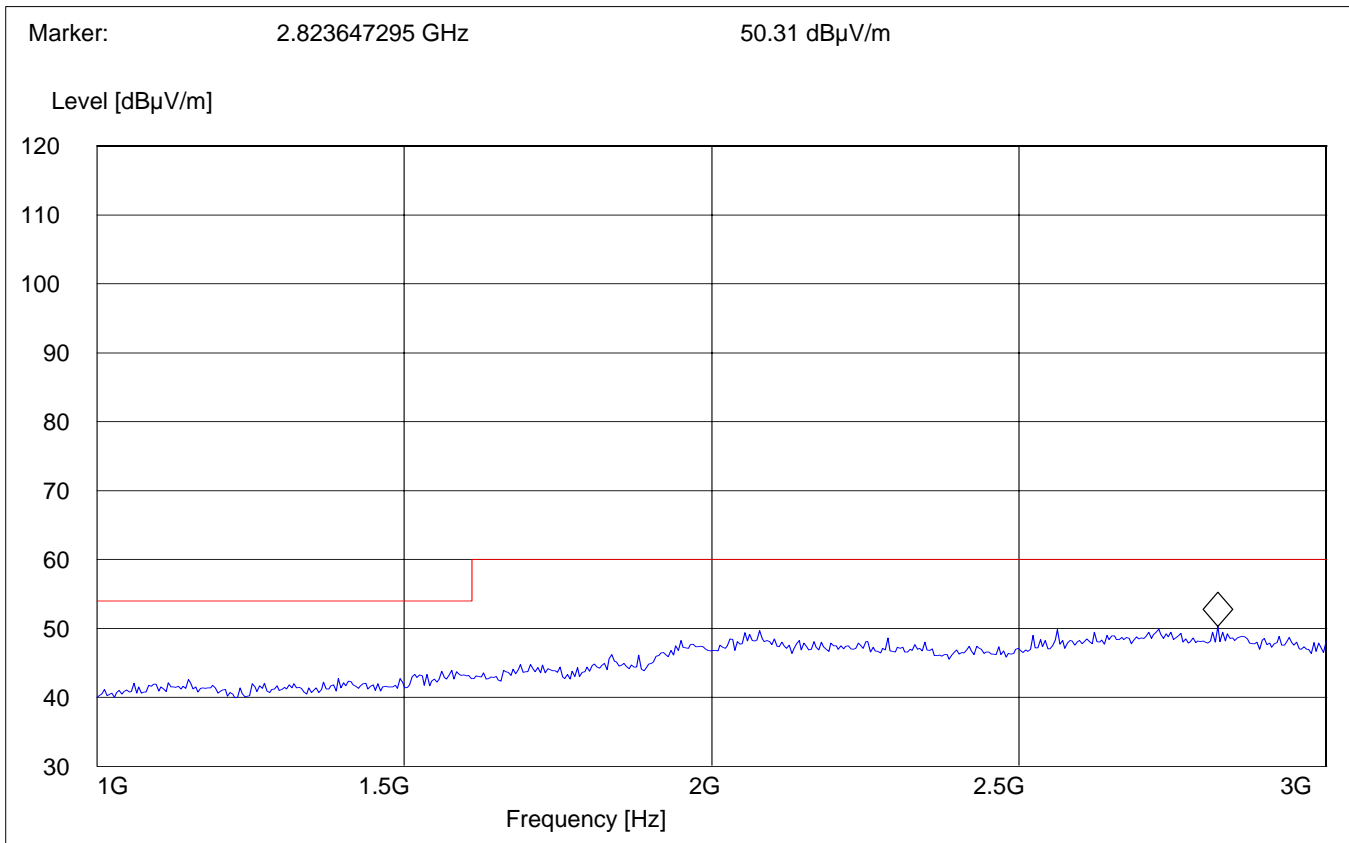
Start	Stop	Detector	Meas. Time	RBW	VBW	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz		3141-#1186



RECEIVER SPURIOUS RADIATION
1GHz – 3GHz

§ 15.209

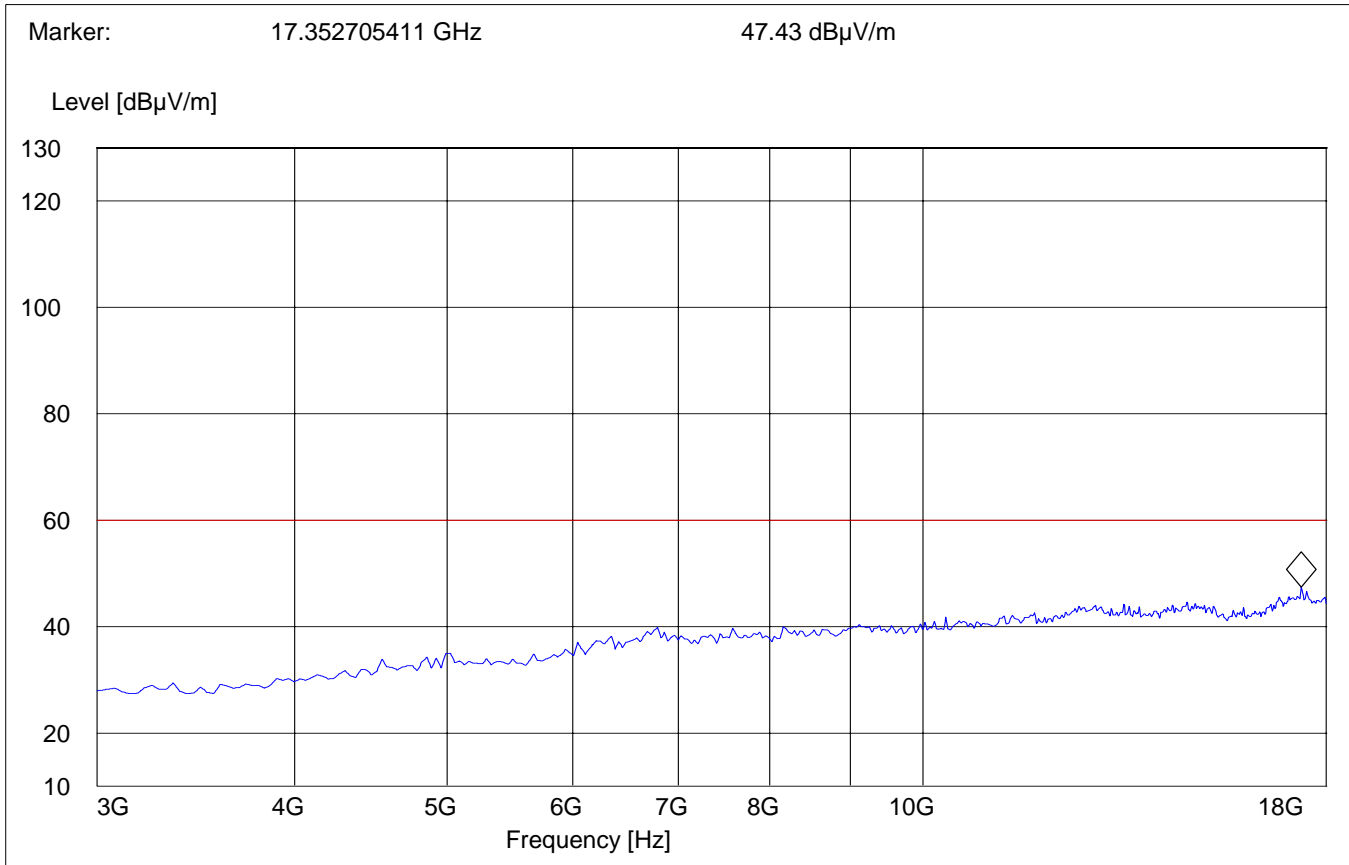
SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



RECEIVER SPURIOUS RADIATION
3GHz – 18GHz

§ 15.209

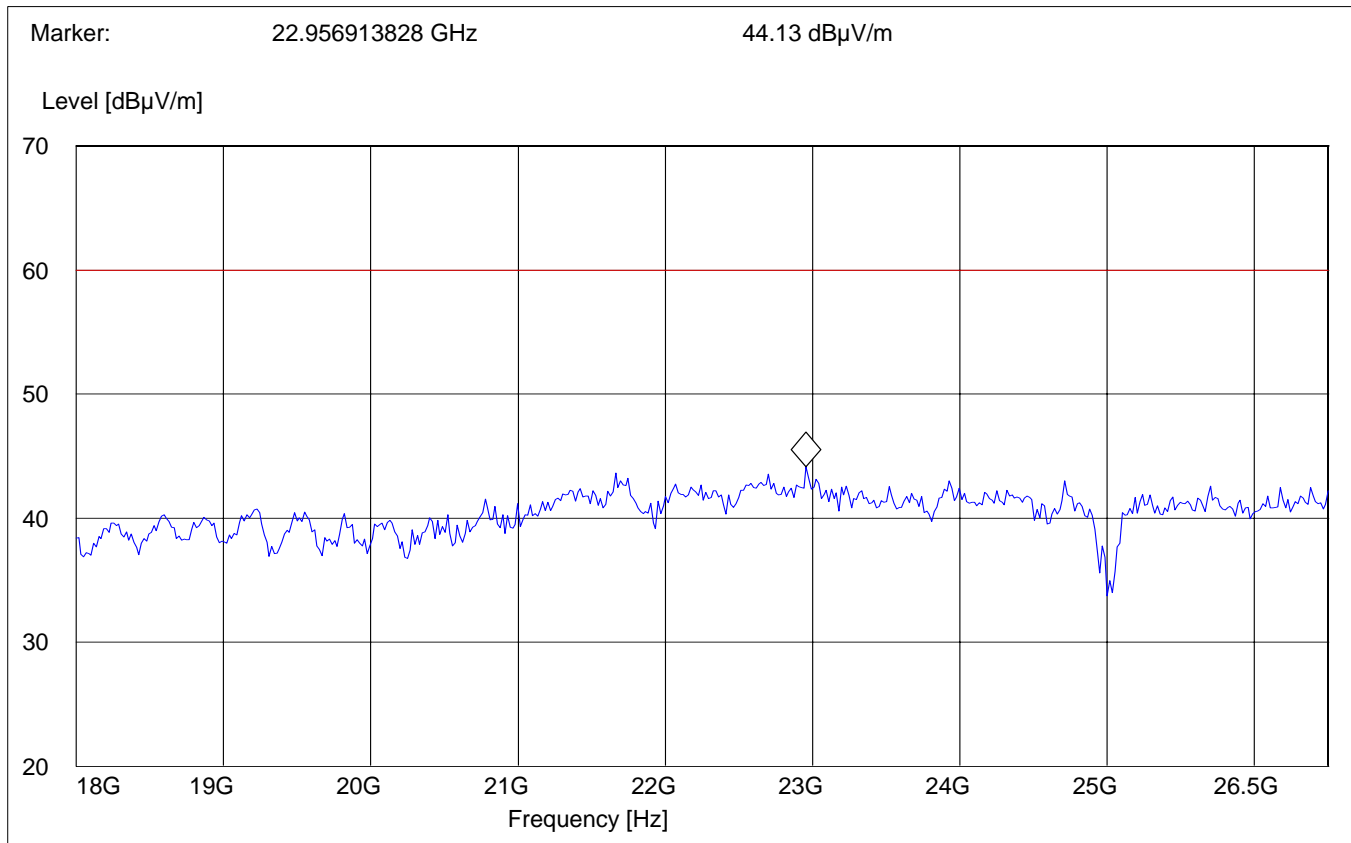
SWEEP TABLE:		"BT Spuri hi 3-18G"			
Short Description:		Bluetooth Spurious 3-18 GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



RECEIVER SPURIOUS RADIATION
18GHz – 26.5GHz

§ 15.209

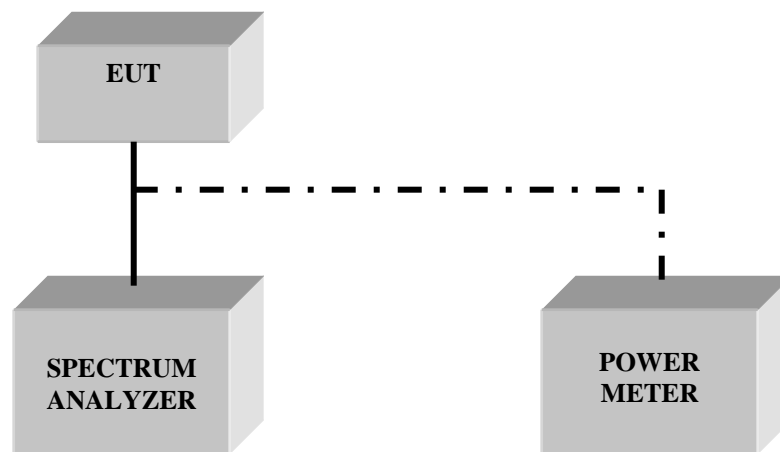
SWEEP TABLE:		"BT Spuri hi 18-26.5G"			
Short Description:		Bluetooth Spurious 18-26.5GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010
03	Biconilog Antenna	3141	EMCO	0005-1186
04	Horn Antenna (700M-18GHz)	SAS-200/571	AH Systems	325
05	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
06	2-3GHz Band reject filter	BRM50701	Microtronics	6
07	Pre-Amplifier	TS-ANA	Rohde & Schwarz	--
08	Pre-Amplifier	JS4-00102600	Miteq	00616

BLOCK DIAGRAMS
Conducted Testing



Radiated Testing

ANECHOIC CHAMBER

