



FCC Test Report

FCC Part 15.247 for FHSS systems/ CANADA RSS-210

FOR:

BLUEPARROTT B350

**One Front Street
Rollinsford, NH 03869
U.S.A**

**FCC ID: SOM-202462
IC ID: 4293A-202462**

TEST REPORT #: EMC_VXICO_002_15.247

DATE: 2008-4-16



Certificate # 2135.01



LAB CODE 20020328-00

**FCC listed
A2LA Accredited**

**IC recognized #
3462B**

CETECOM Inc.

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CETECOM Inc. is a Delaware Corporation with Corporation number: 2113686

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

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**1 Assessment**

The following is in compliance with the applicable criteria specified in FCC rules Part 15.247 of the Code of Federal Regulations and in compliance with the applicable criteria specified in Industry Canada rules RSS210.

Company	Description	Model #
VXI Corporation	B350 NOISE CANCELING CONVERTIBLE BLUETOOTH HEADSET	BLUEPARROTT B350

Technical responsibility for area of testing:

Lothar Schmidt
(Director Regulatory and
Antenna Services)

2008-4-16 EMC & Radio

Date

Section

Name

Signature

The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Test. 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.

This report is prepared by:

Peter Mu
(EMC Project Engineer)

2008-4-16 EMC & Radio

Date

Section

Name

Signature

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	EMC
Address:	411 Dixon Landing Road Milpitas, CA 95035 U.S.A.
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
Responsible Test Lab Manager:	Lothar Schmidt
Responsible Project Leader:	Peter Mu
Date of test:	2008-3-7 to 2008-4-15

2.2 Identification of the Client

APPLICANT	
Applicant (Company Name)	VXI Corporation
Street Address	One Front Street
City/Zip Code	Rollinsford, NH 03869
Country	USA
Contact Person	Robert Drouin
Telephone	603-609-1063
Fax	603-742-5065
e-mail	drouin@vxicorp.com

2.3 Identification of the Manufacturer

MANUFACTURER (If different from Applicant)	
Applicant (Firm Name):	SEVECO International Limited
Contact Person:	Ed Kwok
Telephone:	852-2456-6365
Fax:	852-2455-1099

Address Line 1:	1301-3, Kwong Kin Trade Center
Address Line 2:	5, Kin Fat Street
City:	Tuen Mun, N.T. Hong Kong
State:	
Postal Code:	
Country:	China
e-mail:	edkwok@seveco.com

3 Equipment under Test (EUT)

3.1 Specification of the Equipment under Test

Marketing Name:	BLUEPARROTT B350
Description:	B350 NOISE CANCELING CONVERTIBLE BLUETOOTH HEADSET
Model No:	BLUEPARROTT B350
Antenna Type:	Integral / 1.86dBi
Type(s) of Modulation:	GFSK, DQPSK, 8DPSK
Frequency Band(s) of Operation:	2400~2483.5MHz
Numbers of Channels:	79
Equipment Classification: (CLASS)	☐ FIXED ☐ VEHICULAR ☒ PORTABLE ☐ MODULE
Equipment Classification: (POWER(AC MAINS))	☐ 230VAC (GROUND) ☐ 230VAC (NO GROUND) ☐ 12VDC ☒ 3.0/3.8/4.2VDC Li battery

3.2 Identification of the Equipment Under Test (EUT)

EUT #	TYPE	MANF.	MODEL	SERIAL #
1	EUT	VXI Corporation	BLUEPARROTT B350	S040800205
2	EUT	VXI Corporation	BLUEPARROTT B350	S040800209
3	EUT	VXI Corporation	BLUEPARROTT B350	S040800214

4	EUT	VXI Corporation	BLUEPARROTT B350	S040800218
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3.3 Identification of Accessory equipment

None

4 Subject Of Investigation

The objective of the measurements done by Cetecom Inc. was to measure the performance of the EUT as specified by requirements listed in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Industry Canada rules RSS210. The maximization of portable equipment is conducted in accordance with ANSI C63.4.

This test report is to support a request for new equipment authorization under the FCC ID **SOM-202462** and IC ID **4293A-202462**. All testing was performed on the product referred to in Section 3 as EUT. This test report contains full radiated and conducted testing results as per FCC15.247.

During the testing process the EUT was tested on a single channel using PRBS9 payload using DH5, 2DH5 or 3DH5 packets, all data in this report shows the worst case between horizontal and vertical polarization for above 1GHz.

The B350 does not permit Bluetooth radio operating while the internal battery is charging by the AC wall power supply. Therefore no AC conducted emission requirement applies to the B350.

5 Measurements (Radiated)

5.1 MAXIMUM PEAK OUTPUT POWER

5.1.1 Test Result:

EIRP: GFSK

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-0.48	-1.01	-1.03
Measurement uncertainty		±0.5dBm		

EIRP: $\pi / 4$ DQPSK

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-0.79	-1.44	-1.67
Measurement uncertainty		±0.5dBm		

EIRP: 8DPSK

4

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-0.61	-1.06	-1.41
Measurement uncertainty		±0.5dBm		

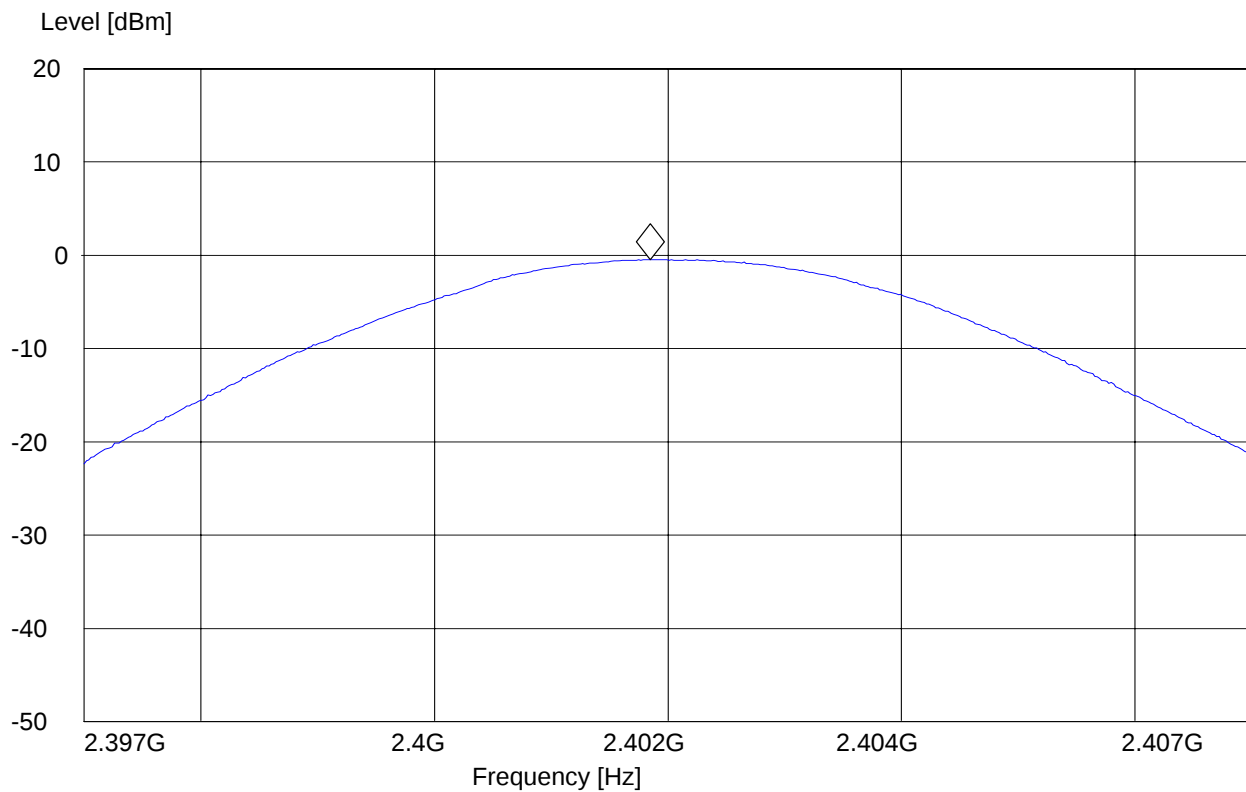
EIRP LOW CHANNEL-GFSK

EUT: B350
Customer:: VXI
Test Mode: CH. 0; GFSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT low channel1"

Short Description:		EIRP Bluetooth channel-2402MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.401849699 GHz -0.48 dBm



EIRP MIDDLE CHANNEL-GFSK

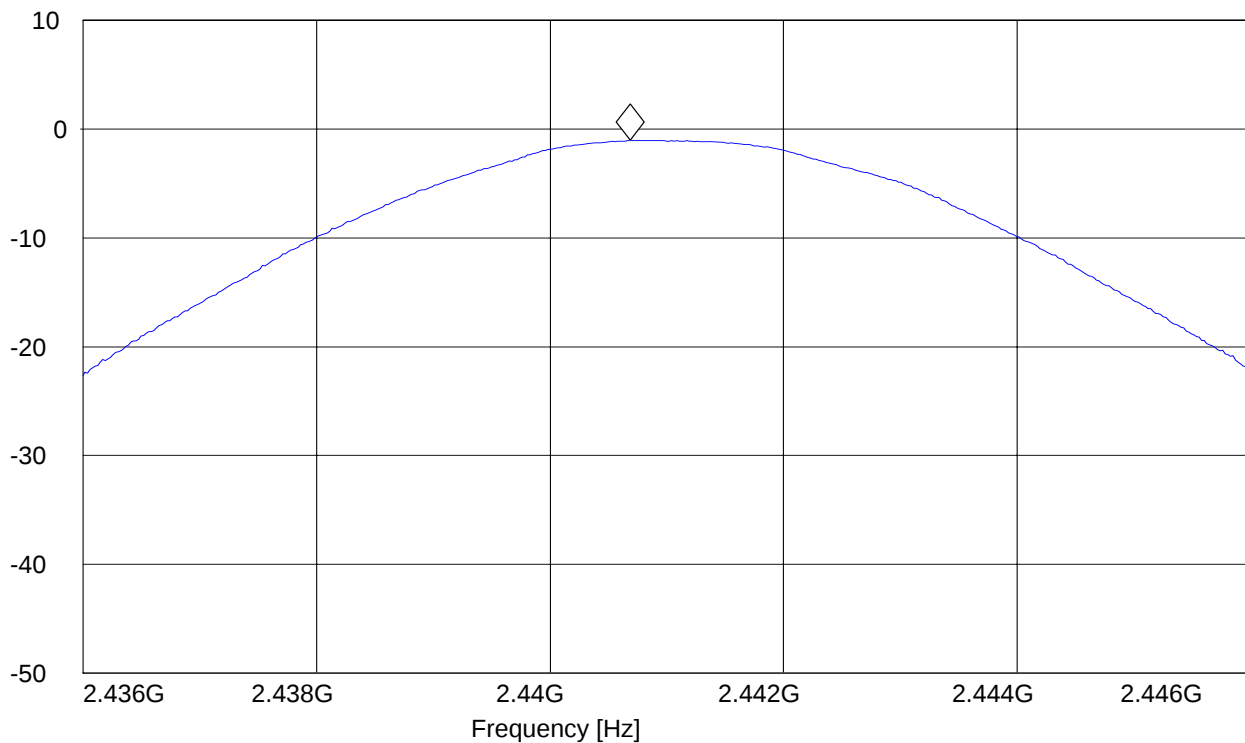
EUT: B350
Customer:: VXI
Test Mode: CH. 39
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT mid channel"

Short Description:		EIRP Bluetooth channel-2441MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.440687375 GHz -1.01 dBm

Level [dBm]



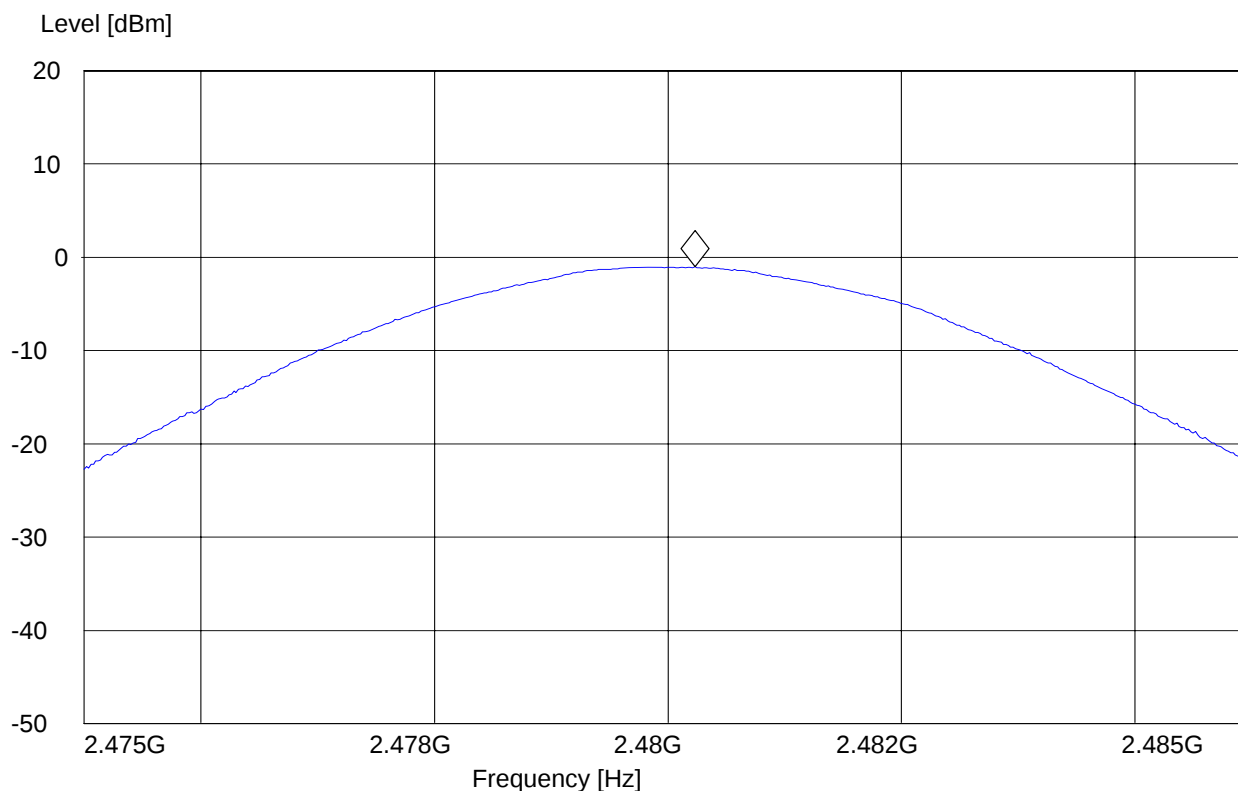
EIRP HIGH CHANNEL-GFSK

EUT: B350
Customer:: VXI
Test Mode: CH. 78
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT high channel"

Short Description:		EIRP Bluetooth channel-2480MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.5 GHz	2.5 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.480230461 GHz -1.03 dBm



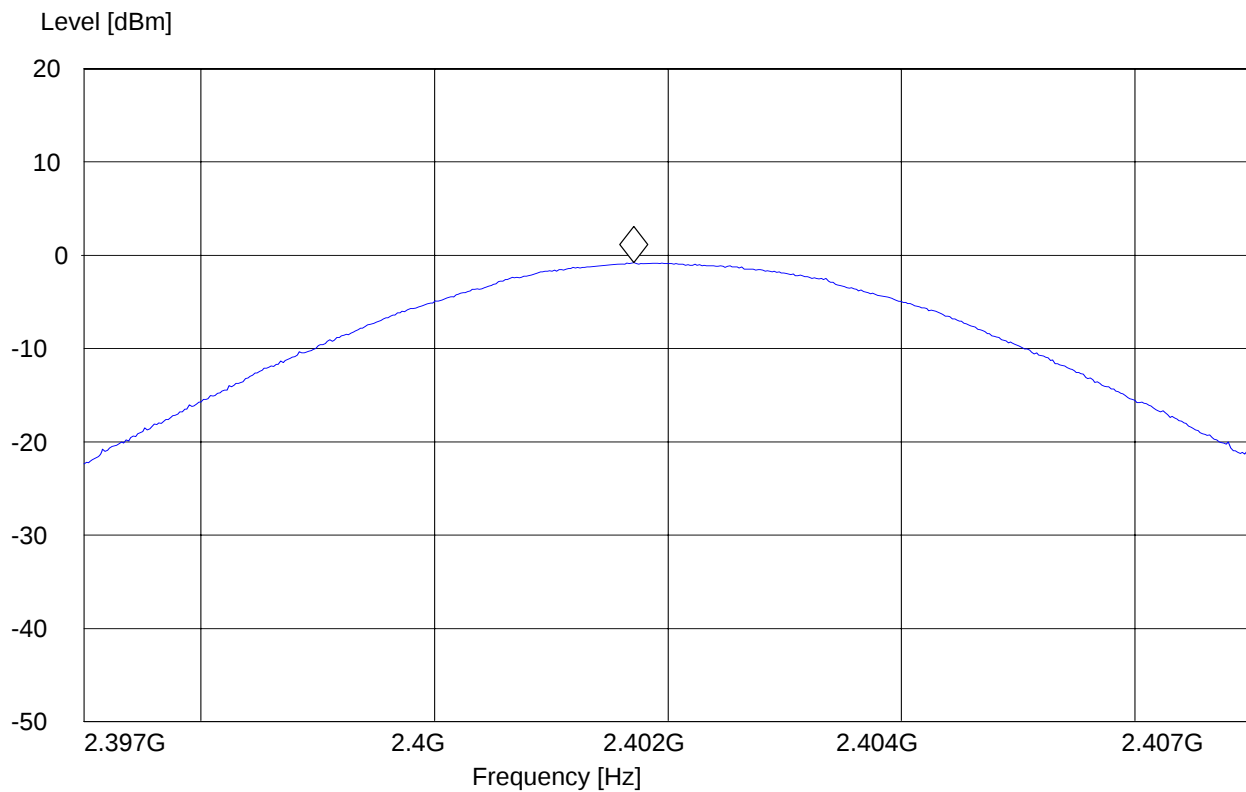
EIRP LOW CHANNEL- $\pi/4$ DQPSK

EUT: B350
Customer:: VXI
Test Mode: CH. 0; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT low channel1"

Short Description:		EIRP Bluetooth channel-2402MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.401709419 GHz -0.79 dBm



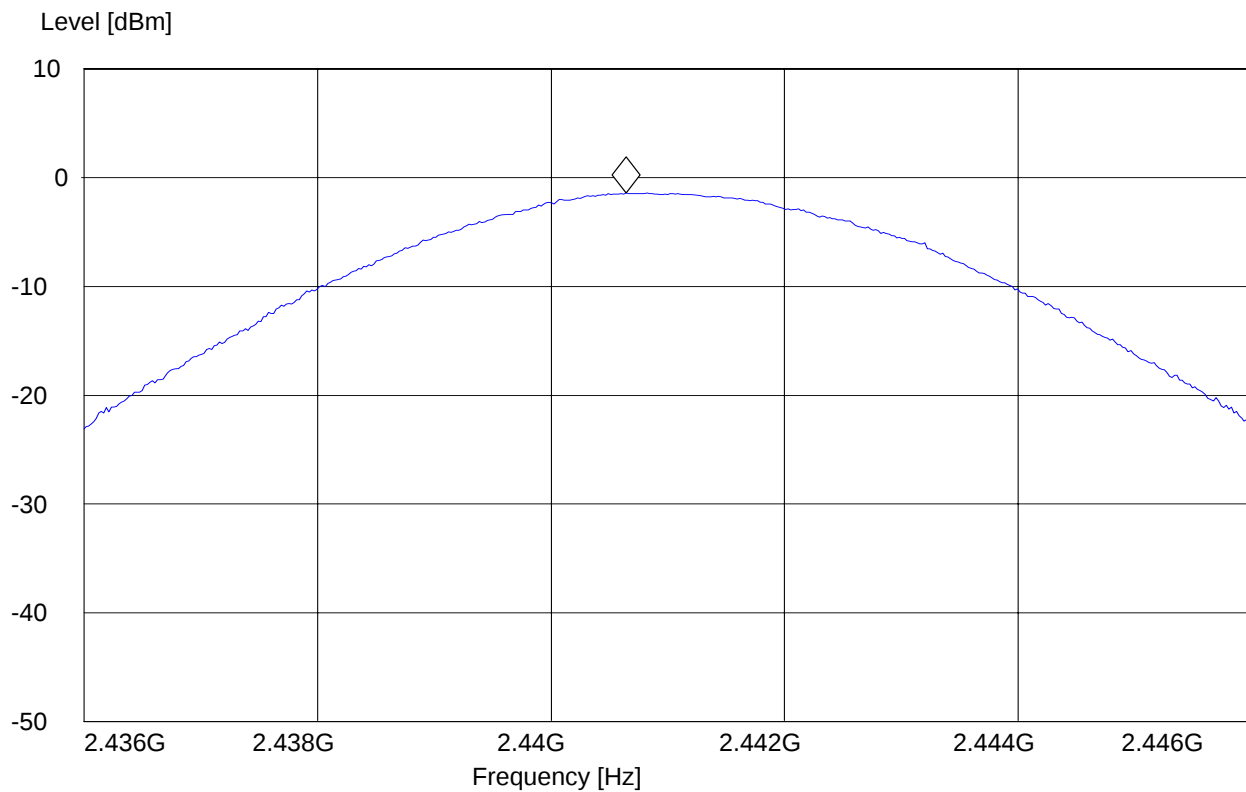
EIRP MIDDLE CHANNEL- $\pi/4$ DQPSK

EUT: B350
Customer:: VXI
Test Mode: CH. 39; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT mid channel"

Short Description:		EIRP Bluetooth channel-2441MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.440643287 GHz -1.44 dBm



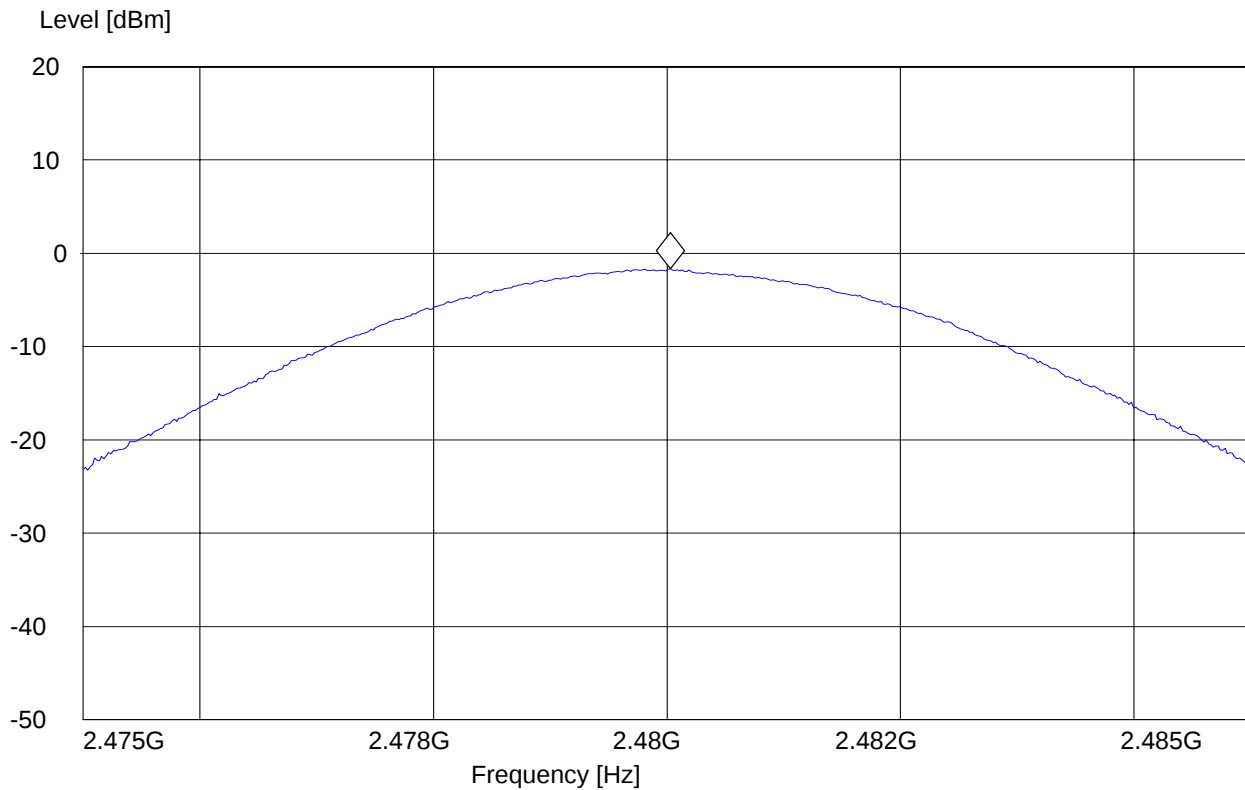
EIRP HIGH CHANNEL- $\pi / 4$ DQPSK

EUT: B350
Customer:: VXI
Test Mode: CH. 78; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT high channel"

Short Description:		EIRP Bluetooth channel-2480MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.5 GHz	2.5 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.48003006 GHz -1.67 dBm



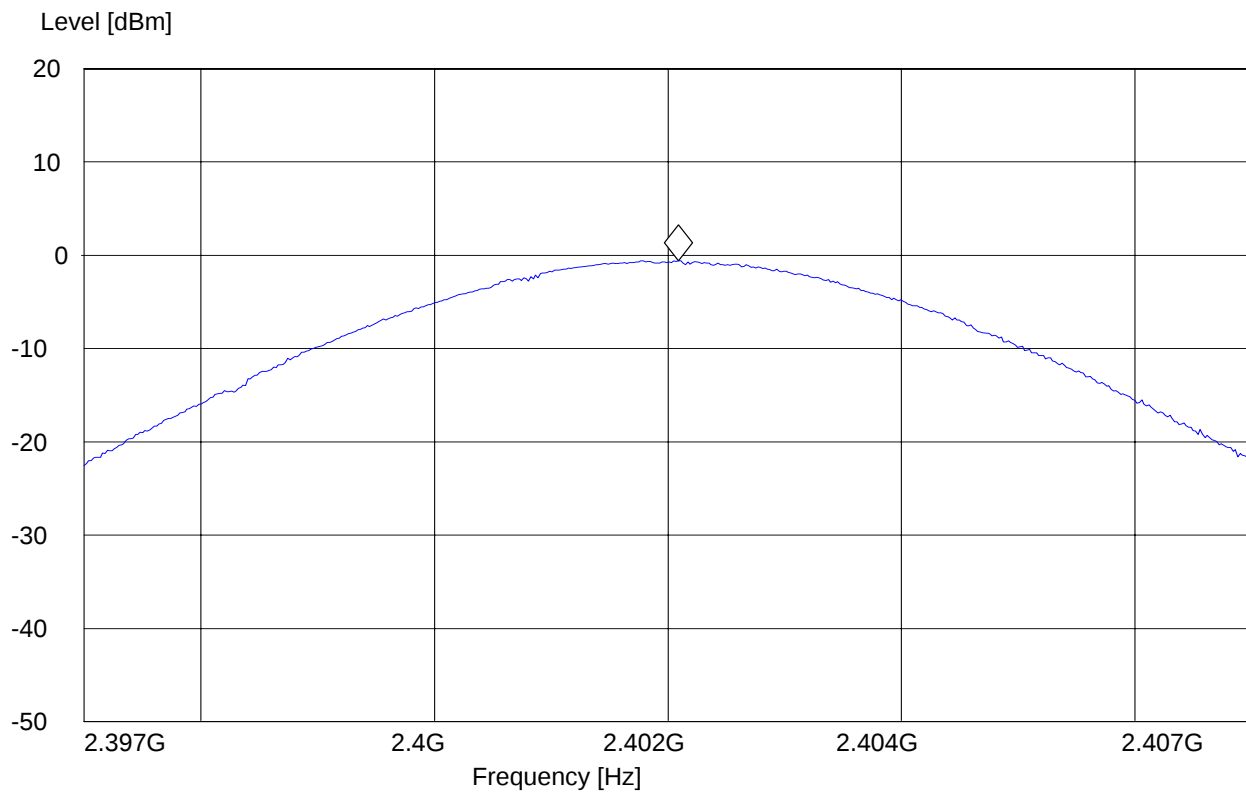
EIRP LOW CHANNEL- 8DPSK

EUT: B350
Customer:: VXI
Test Mode: CH.0; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT low channel1"

Short Description:		EIRP Bluetooth channel-2402MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.40209018 GHz -0.61 dBm



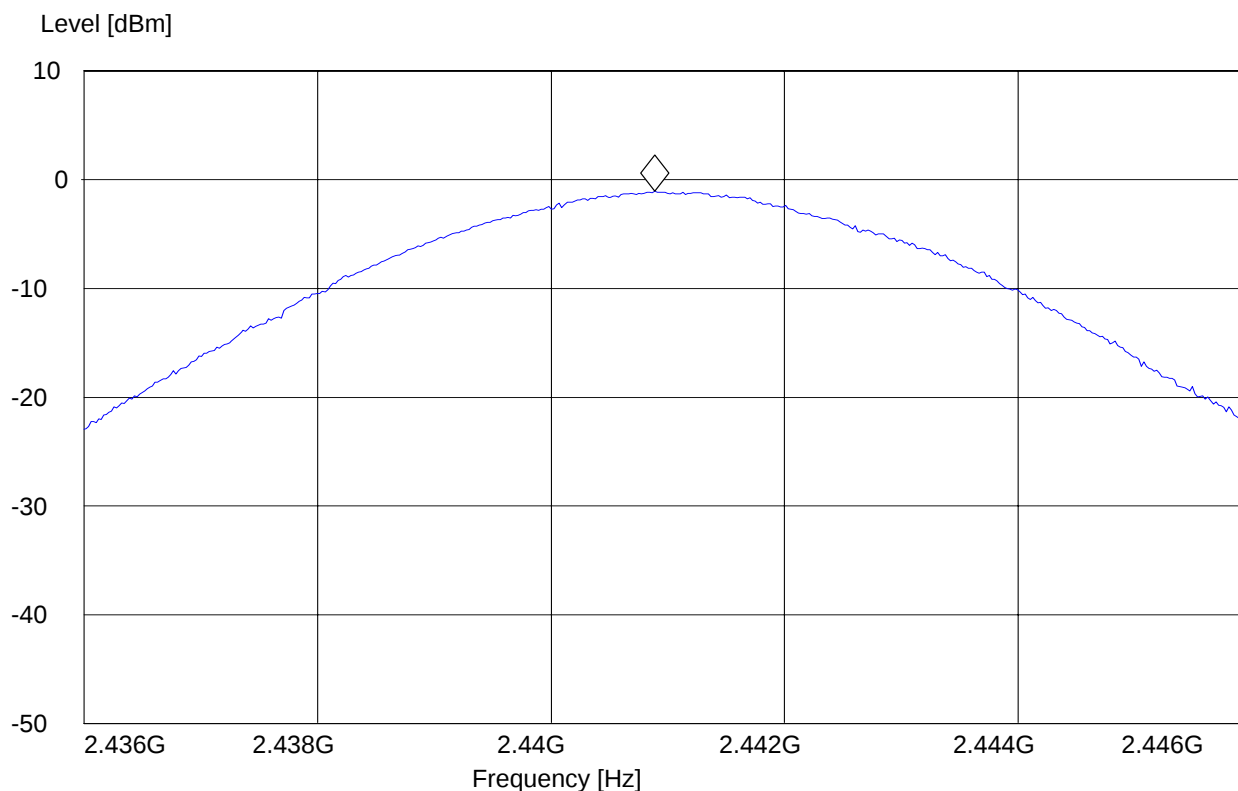
EIRP MIDDLE CHANNEL- 8DPSK

EUT: B350
Customer:: VXI
Test Mode: CH.39; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT mid channel1"

Short Description:		EIRP Bluetooth channel-2441MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.440885772 GHz -1.06 dBm



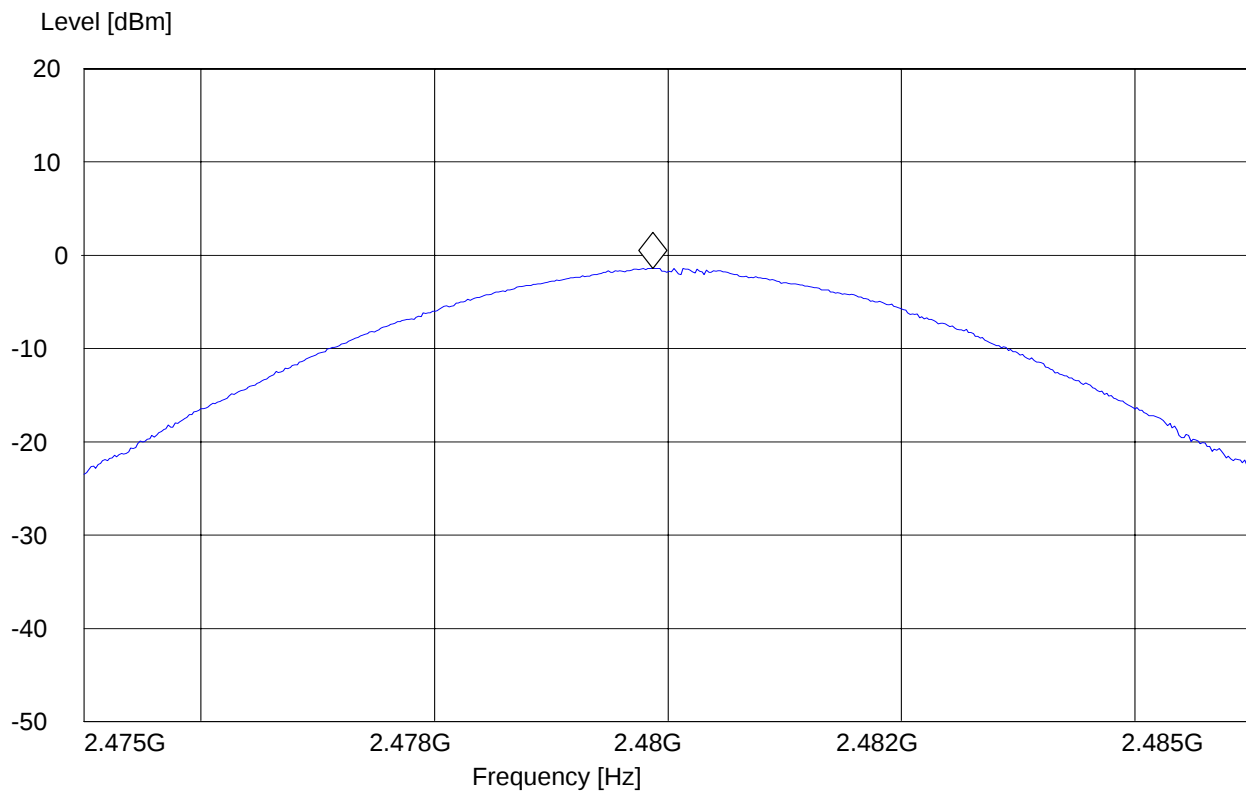
EIRP HIGH CHANNEL- 8DPSK

EUT: B350
Customer:: VXI
Test Mode: CH. 78; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments:

SWEEP TABLE: "EIRP BT high channel"

Short Description:		EIRP Bluetooth channel-2480MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.5 GHz	2.5 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM
		MaxPeak			

Marker: 2.479869739 GHz -1.41 dBm



5.2 RESTRICTED BAND EDGE COMPLIANCE RADIATED §15.247/15.205

5.2.1 LIMITS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

*PEAK LIMIT= 74dBuV/m

*AVG. LIMIT= 54dBuV/m

5.2.2 RESULTS: GFSK**(2402MHz) LOWER BAND EDGE PEAK -GFSK MODULATION**

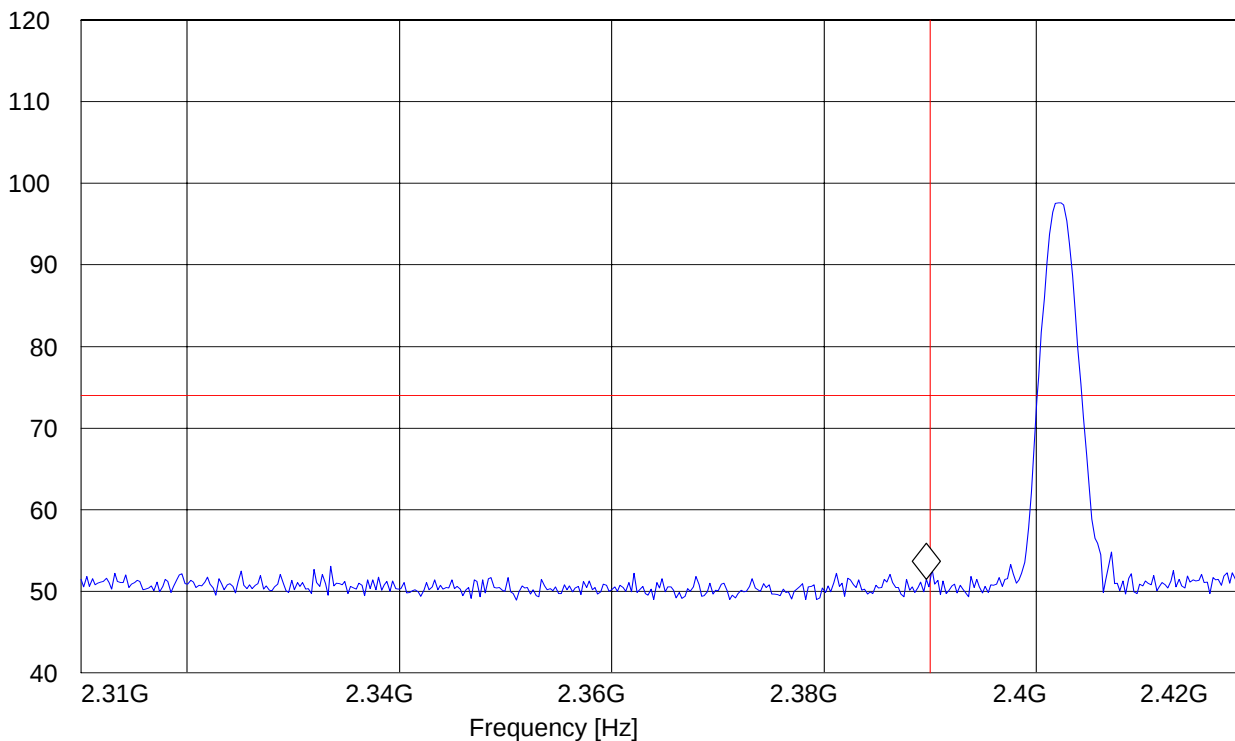
EUT: B350
Customer:: VXI
Test Mode: CH. 0; GFSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389623246 GHz 51.44 dBμV/m

Level [dBμV/m]



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(2402MHz) LOWER BAND EDGE AVERAGE -GFSK MODULATION

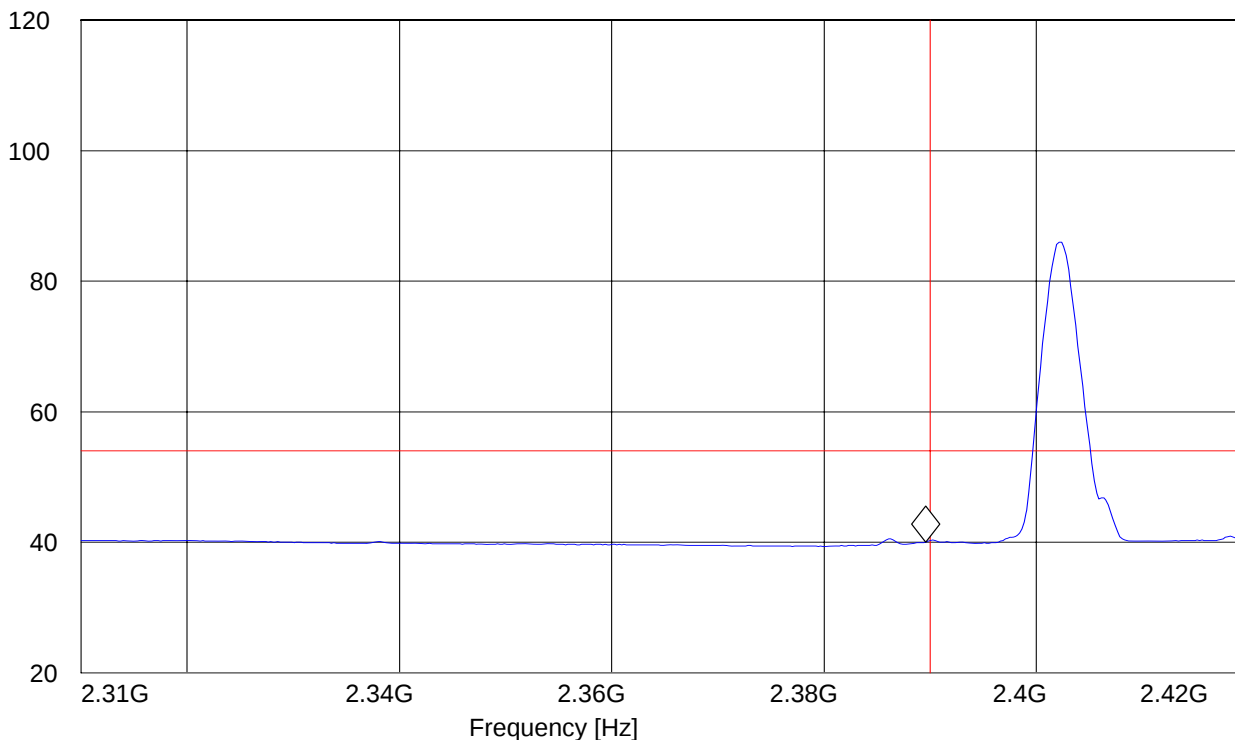
EUT: B350
Customer:: VXI
Test Mode: CH. 0; GFSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389579158 GHz 40.07 dB μ V/m

Level [dB μ V/m]



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(2480MHz) HIGHER BAND EDGE PEAK -GFSK MODULATION

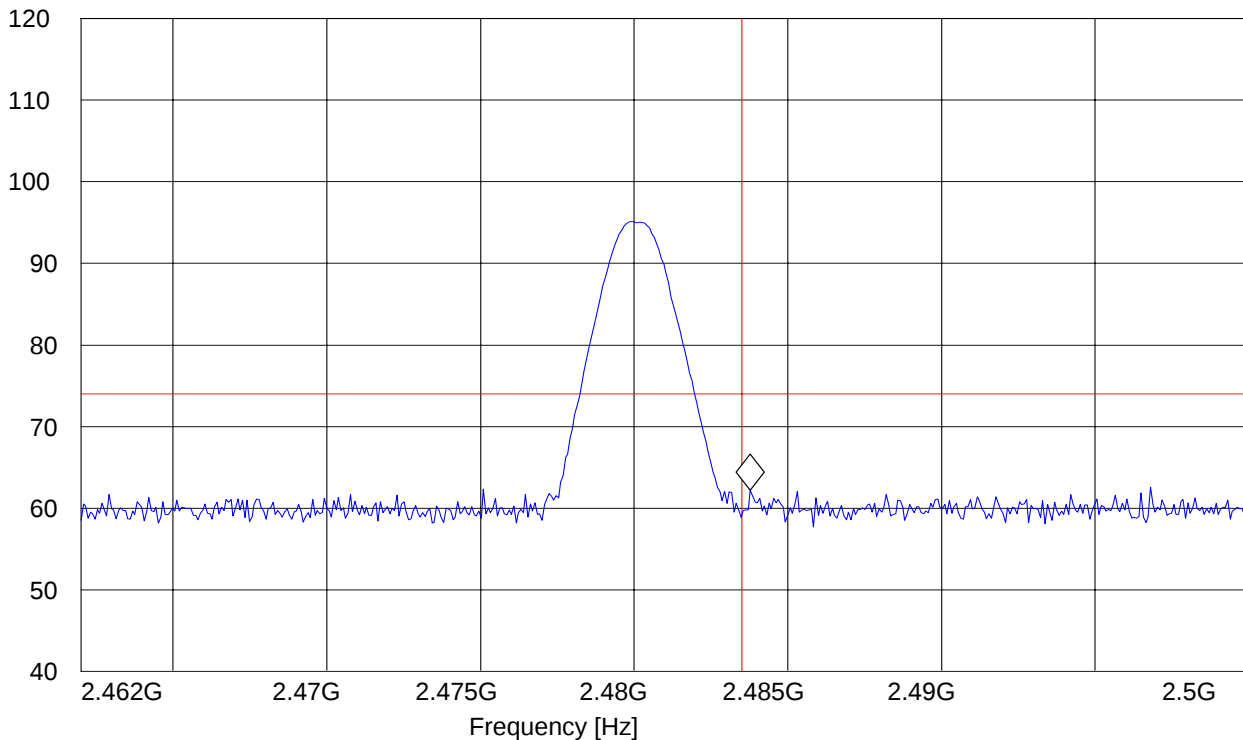
EUT: B350
Customer:: VXI
Test Mode: CH. 78; GFSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.483779559 GHz 62.21 dB μ V/m

Level [dB μ V/m]



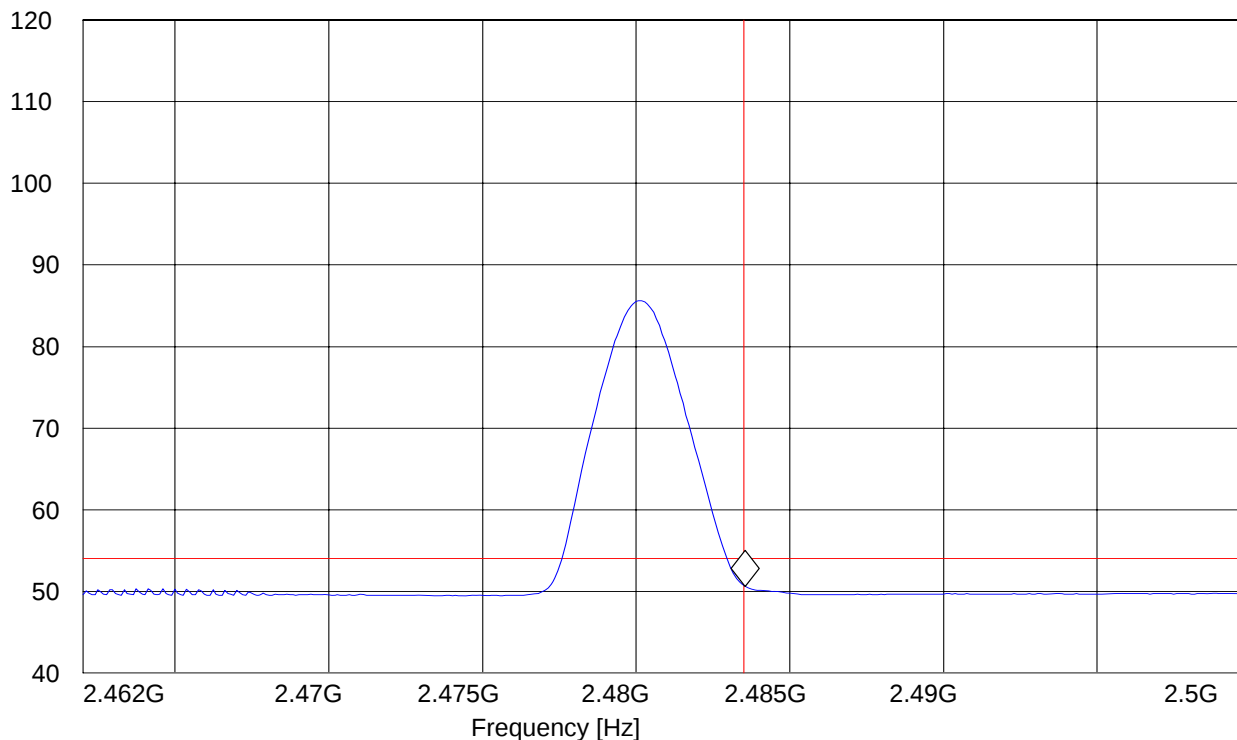
HIGHER BAND EDGE AVERAGE-GFSK MODULATION

EUT: B350
Customer:: VXI
Test Mode: CH. 78; GFSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.483547094 GHz

50.58 dB μ V/mLevel [dB μ V/m]

5.2.3 RESULTS: $\pi/4$ DQPSK**(2402MHz) LOWER BAND EDGE PEAK - $\pi/4$ DQPSK MODULATION**

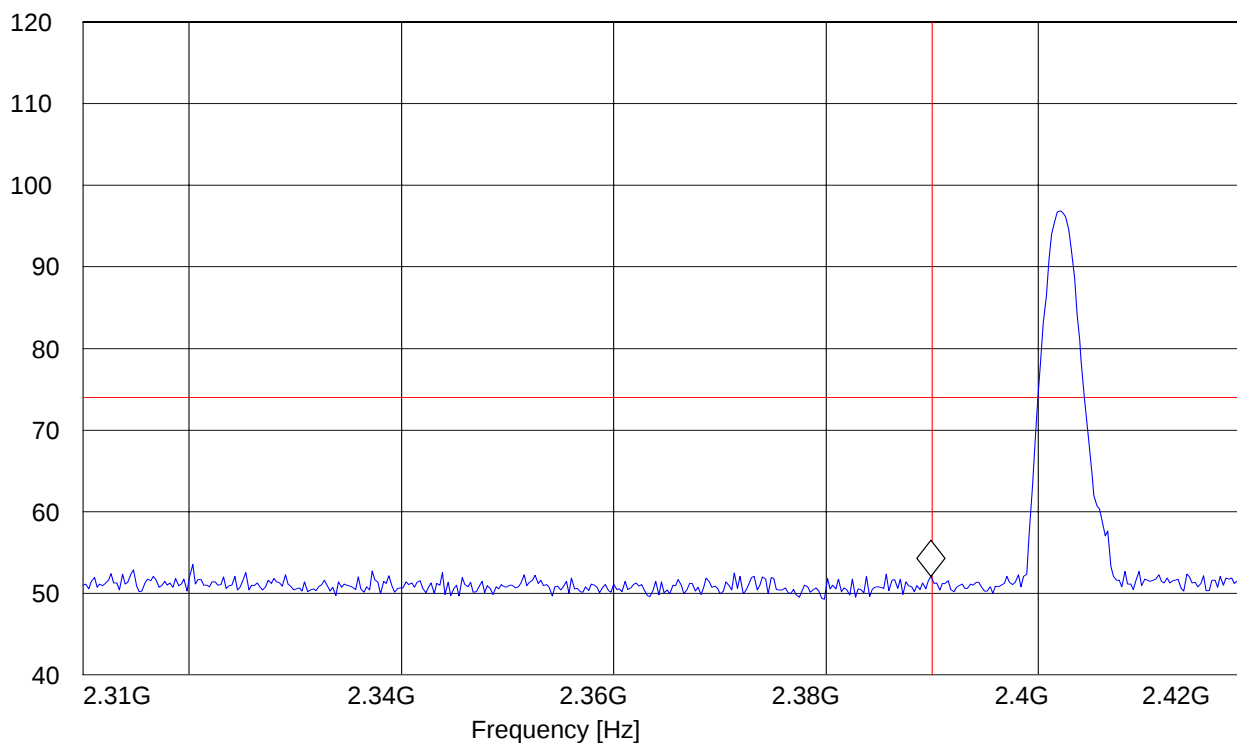
EUT: B350
Customer:: VXI
Test Mode: CH. 0; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389887776 GHz 52.04 dB μ V/m

Level [dB μ V/m]



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(2402MHz) LOWER BAND EDGE AVERAGE $-\pi/4$ DQPSK MODULATION

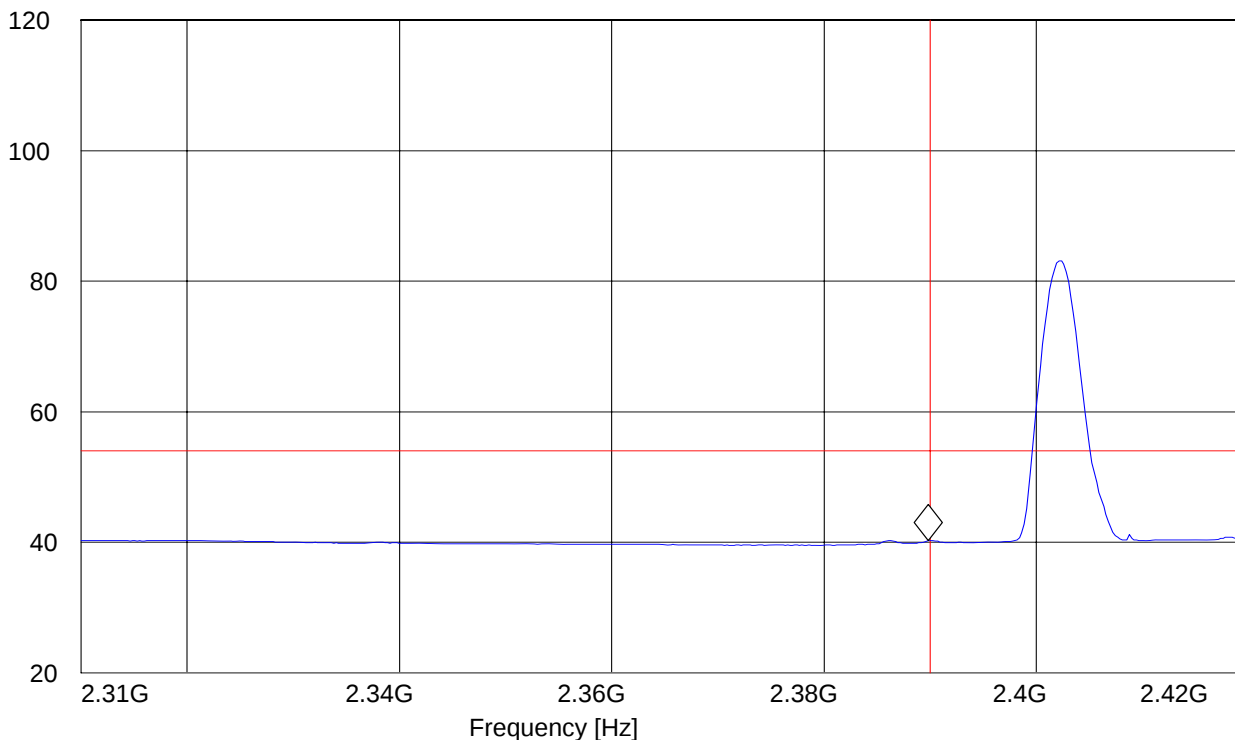
EUT: B350
Customer:: VXI
Test Mode: CH. 0; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389799599 GHz 40.25 dB μ V/m

Level [dB μ V/m]



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(2480MHz) HIGHER BAND EDGE PEAK $-\pi/4$ DQPSK MODULATION

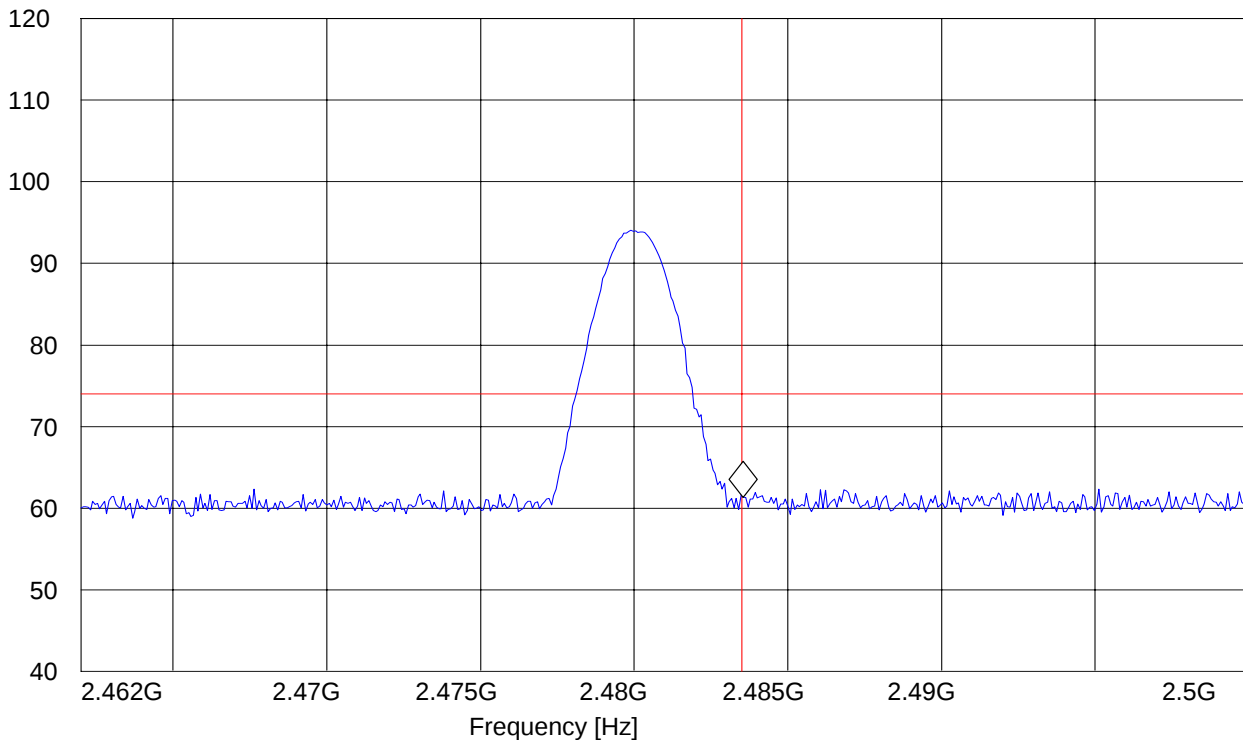
EUT: B350
Customer:: VXI
Test Mode: CH. 78; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.483551102 GHz 61.35 dB μ V/m

Level [dB μ V/m]



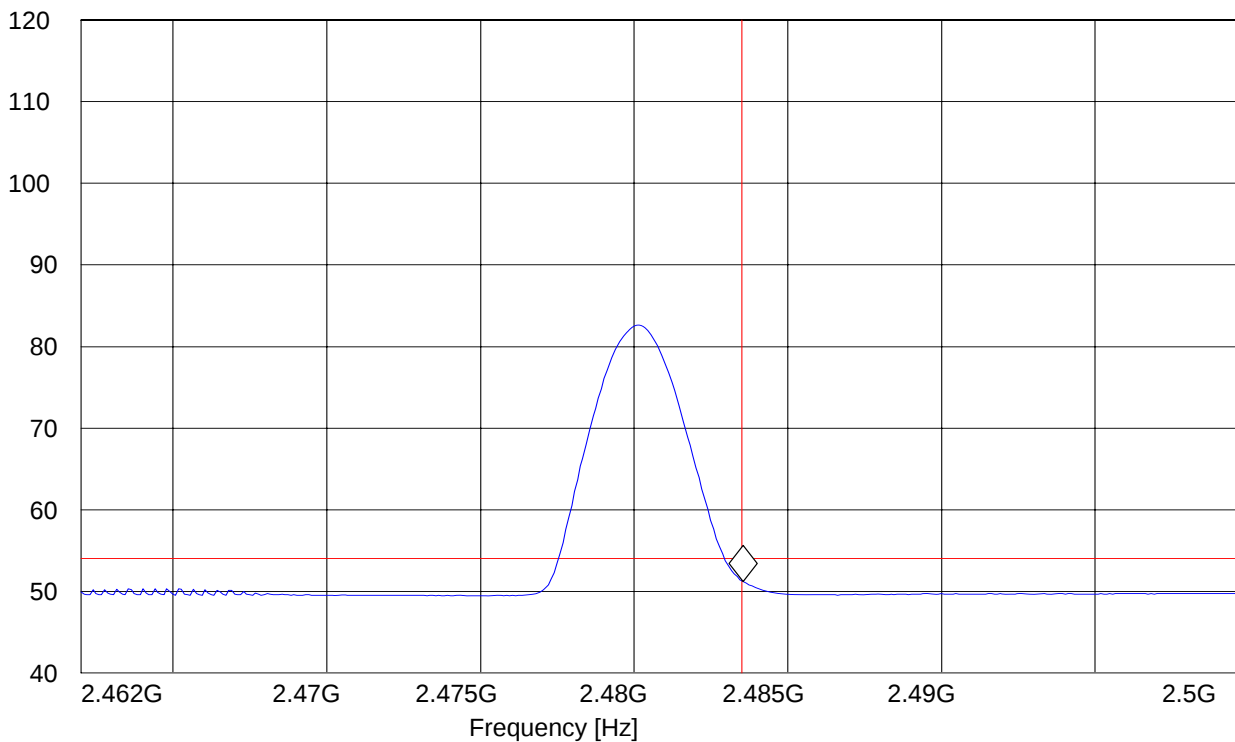
HIGHER BAND EDGE AVERAGE- $\pi/4$ DQPSK MODULATION

EUT: B350
Customer:: VXI
Test Mode: CH. 78; $\pi/4$ DQPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.483547094 GHz

51.18 dB μ V/mLevel [dB μ V/m]

5.2.4 RESULTS: 8DPSK**(2402MHz) LOWER BAND EDGE PEAK - 8DPSK MODULATION**

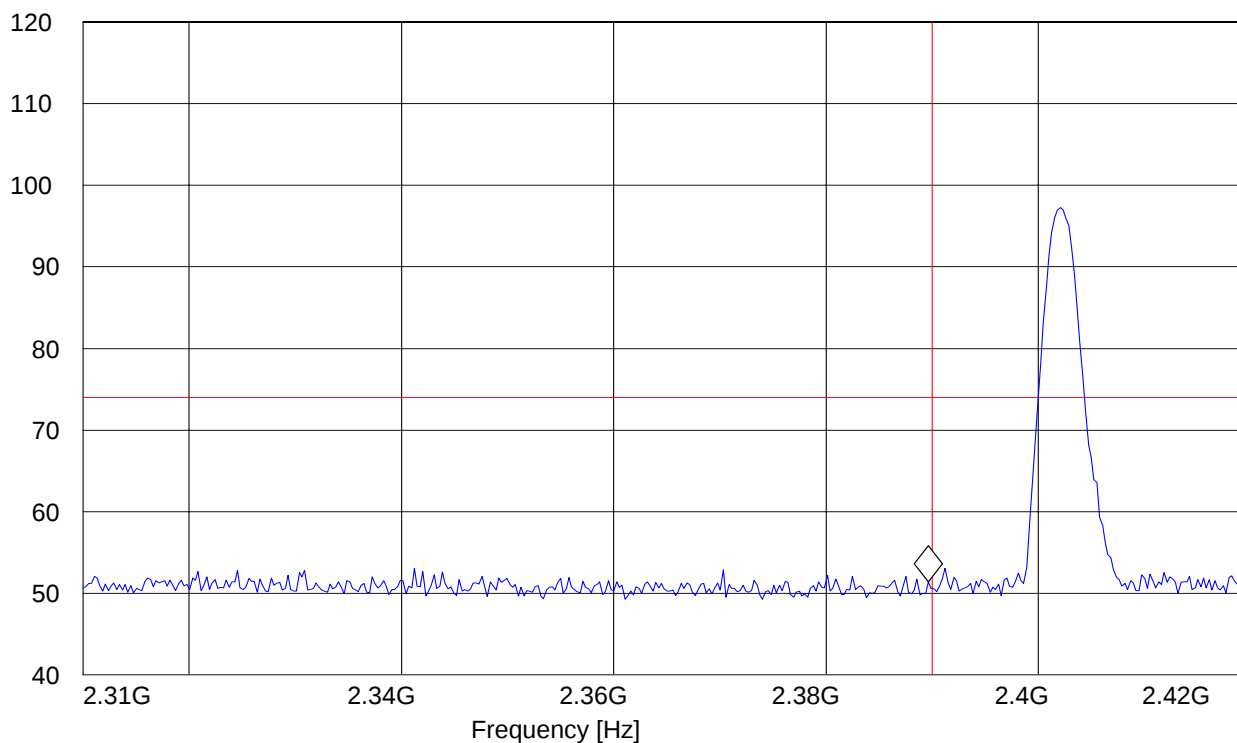
EUT: B350
Customer:: VXI
Test Mode: CH. 0; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389623246 GHz 51.37 dBμV/m

Level [dBμV/m]



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(2402MHz) LOWER BAND EDGE AVERAGE -8DPSK MODULATION

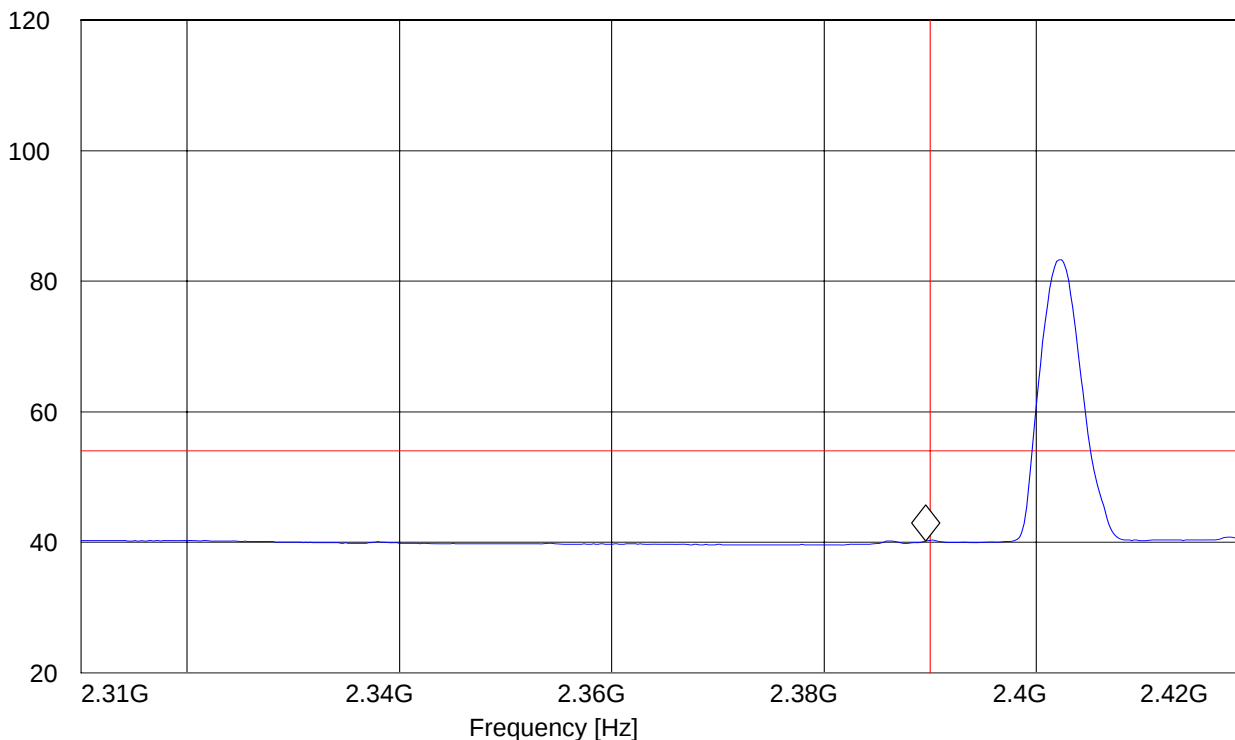
EUT: B350
Customer:: VXI
Test Mode: CH. 0; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389579158 GHz 40.2 dBμV/m

Level [dBμV/m]



RESULTS (2480MHz) HIGHER BAND EDGE PEAK - 8DPSK MODULATION

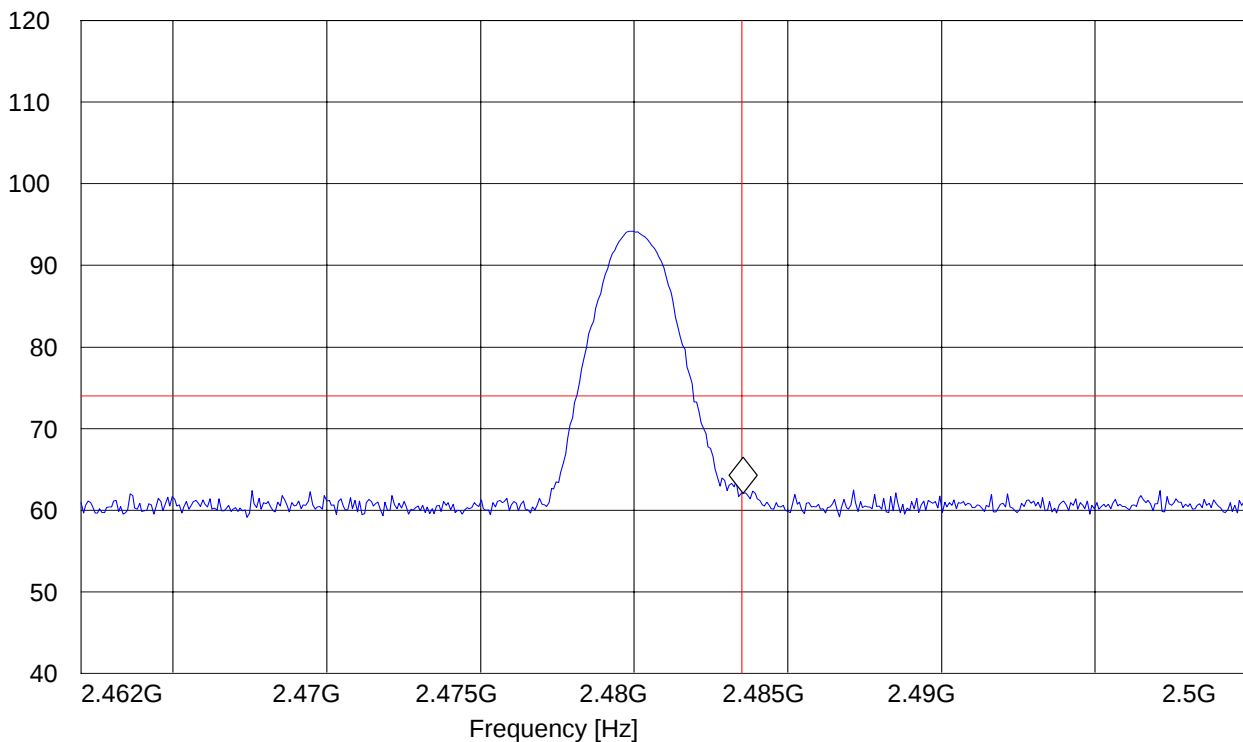
EUT: B350
Customer:: VXi
Test Mode: CH. 78; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.483551102 GHz 62.09 dB μ V/m

Level [dB μ V/m]



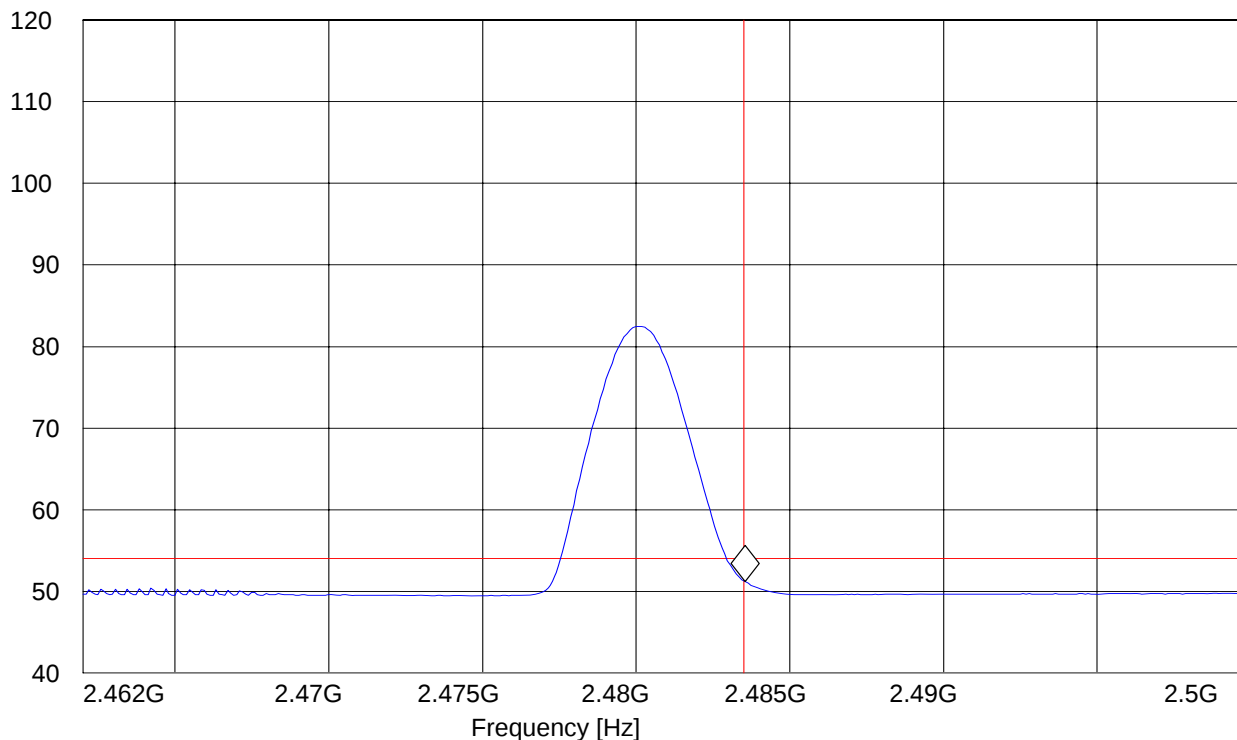
HIGHER BAND EDGE AVERAGE-8DPSK MODULATION

EUT: B350
Customer:: VXI
Test Mode: CH. 78; 8DPSK
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.483547094 GHz

51.18 dB μ V/mLevel [dB μ V/m]

5.3 TRANSMITTER SPURIOUS EMISSIONS RADIATED § 15.247/15.205/15.209

5.3.1 LIMITS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

*PEAK LIMIT= 74dBuV/m

*AVG. LIMIT= 54dBuV/m

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 25 GHz very short cable connections to the antenna was used to minimize the noise level.

2. All measurements are done in peak mode using an average limit , unless specified with the 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

5.3.2 RESULTS

30MHz – 1GHz

Antenna: vertical

Note: Worse case representation for all channels.

EUT: B350
Customer:: VXI
Test Mode: CH. 78;
ANT Orientation: V
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

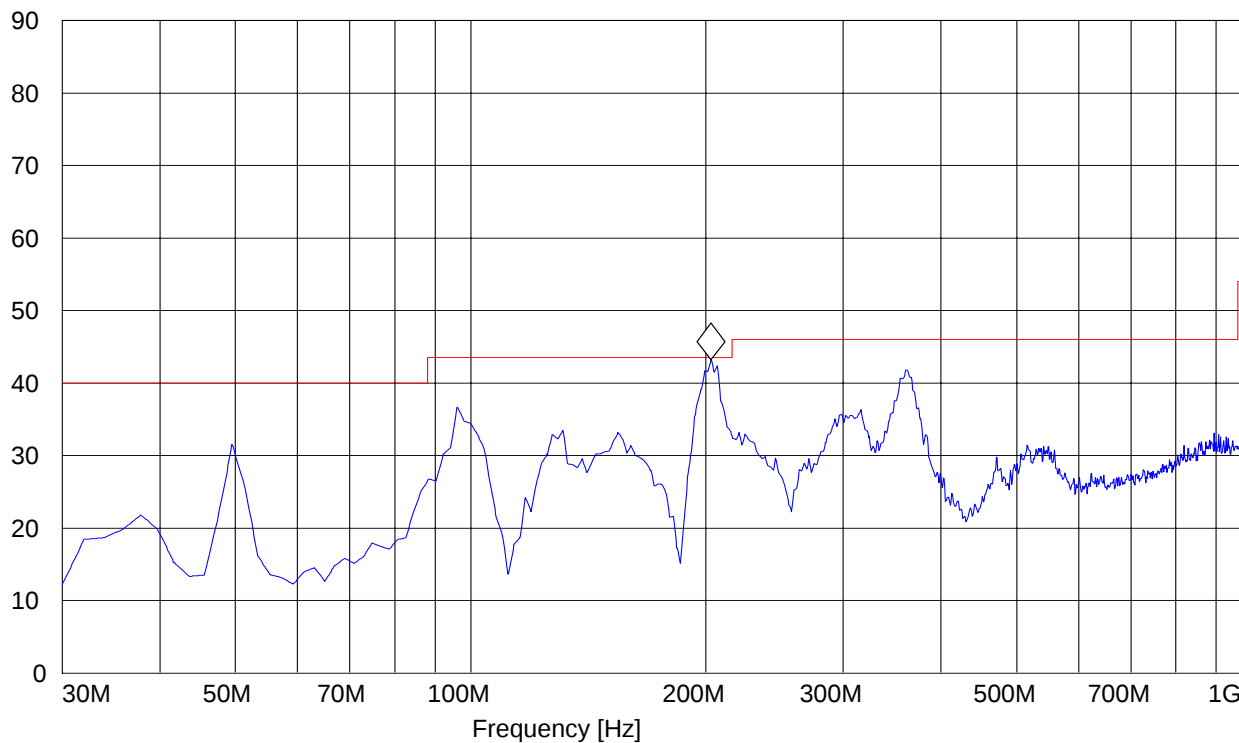
SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 203.006012 MHz

43.22 dB μ V/m

Level [dB μ V/m]



30MHz – 1GHz**Antenna: horizontal****Note: Worse case representation for all channels.**

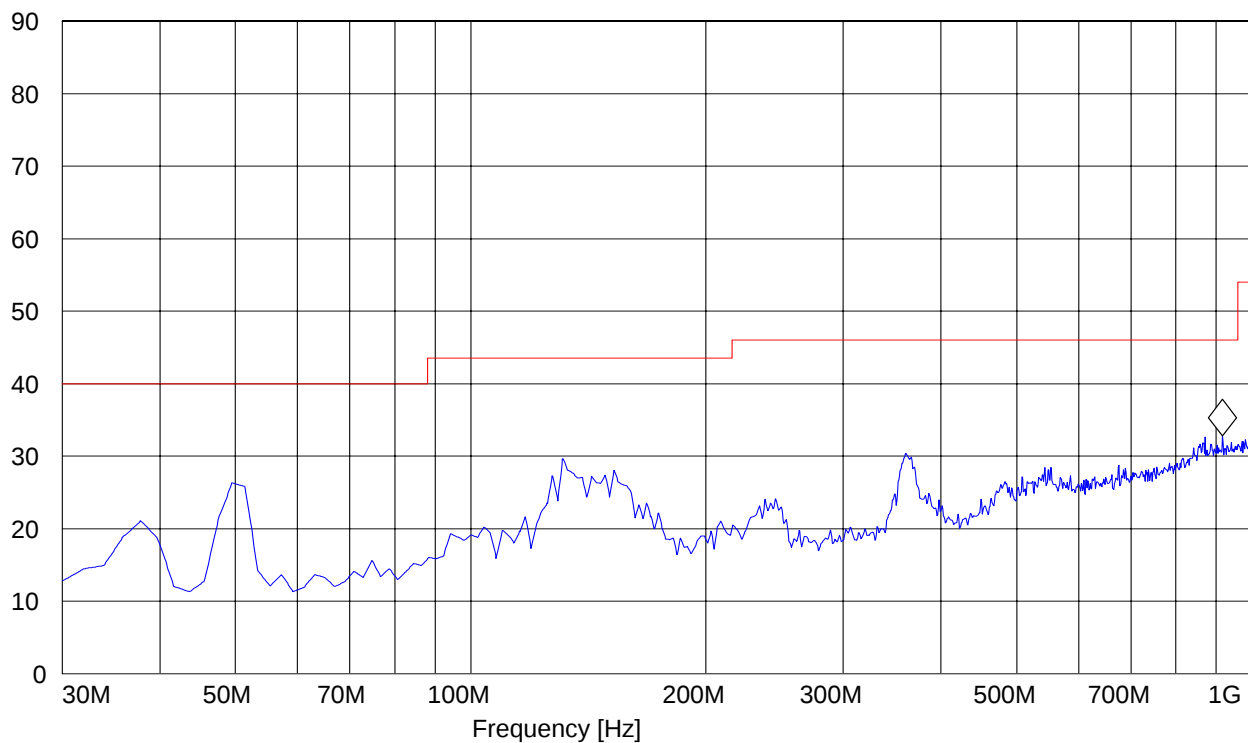
EUT: B350
Customer:: VXI
Test Mode: CH. 78;
ANT Orientation: V
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 916.412826 MHz 32.81 dB μ V/m

Level [dB μ V/m]



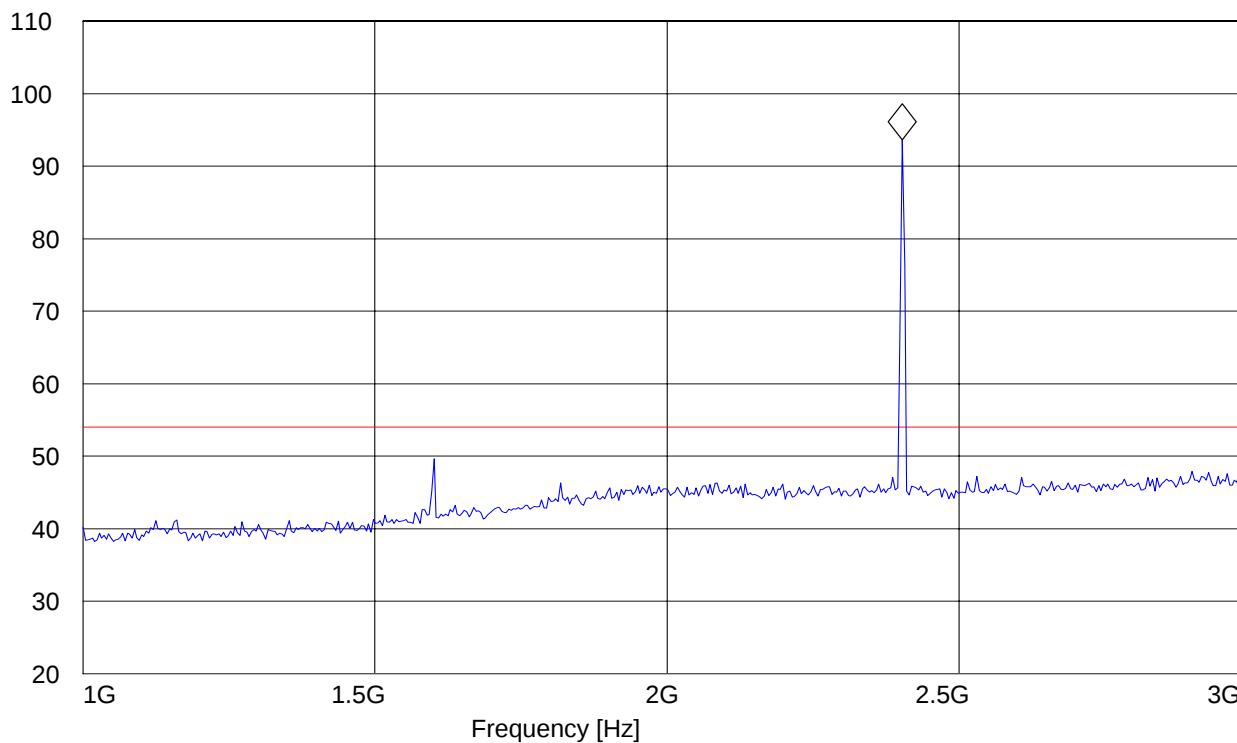
1-3GHz (2402MHz)**Note: The peak above the limit line is the carrier freq.****Note: Peak Reading vs. Average limit**

EUT: B350
Customer:: VXI
Test Mode: CH.0;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya
Voltage: BATTERY
Comments: Marker placed on transmit signal

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.402805611 GHz 93.65 dB μ V/m

Level [dB μ V/m]

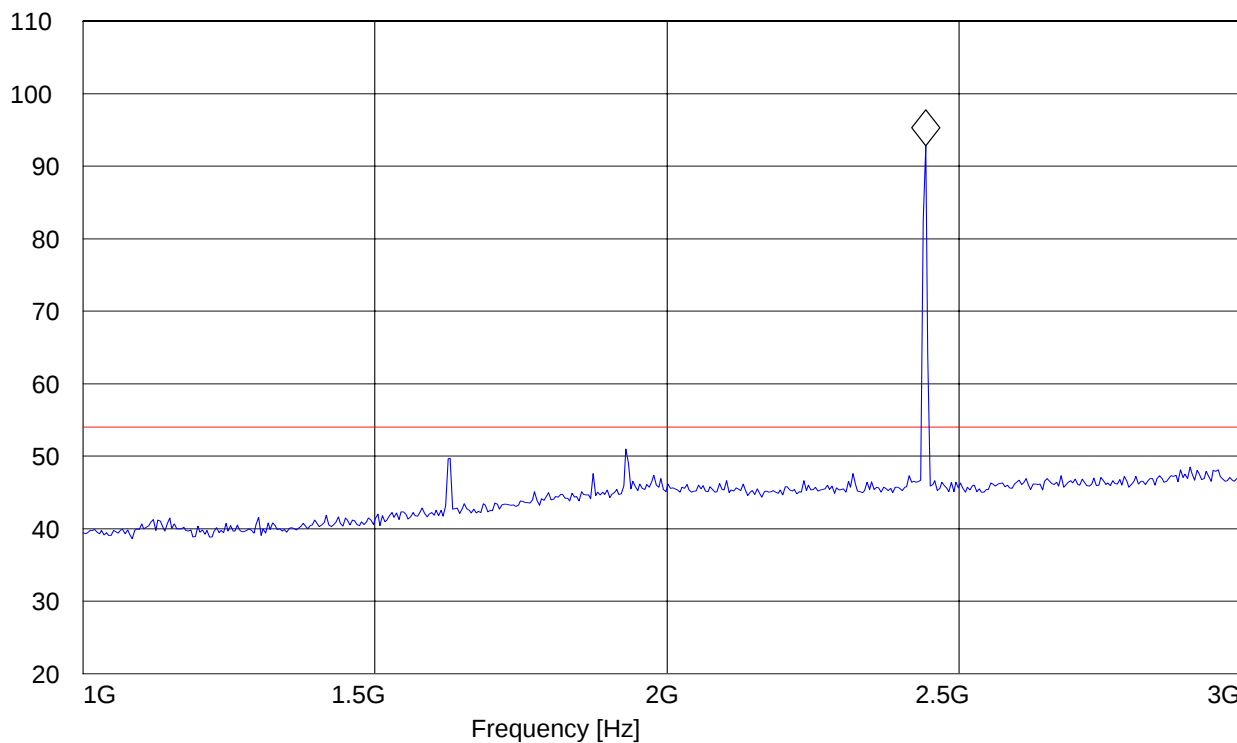
1-3GHz (2441MHz)**Note: The peaks above the limit line is the carrier freq.****Note: Peak Reading vs. Average limit**

EUT: B350
Customer:: VXI
Test Mode: CH.39;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: BATTERY
Comments: Marker placed on transmit signal

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.442885772 GHz 92.83 dB μ V/m

Level [dB μ V/m]

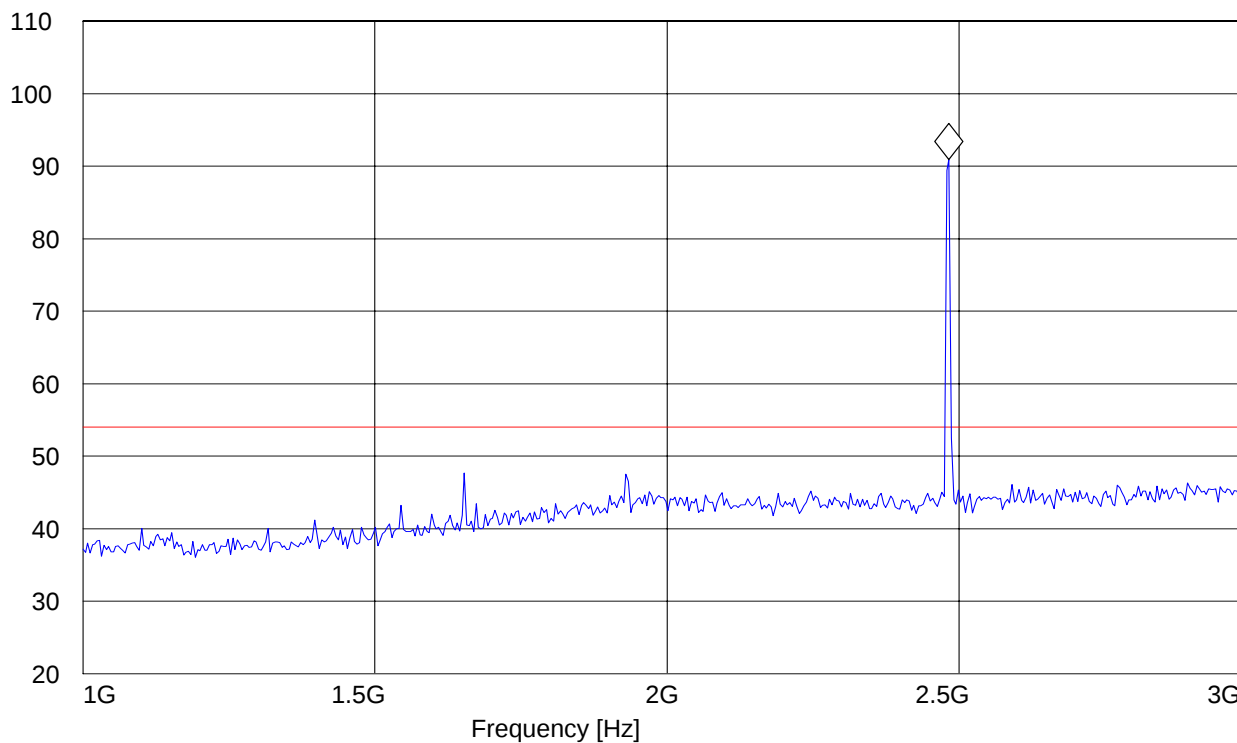
1-3GHz (2480MHz)**Note: The peaks above the limit line is the carrier freq.****Note: Peak Reading vs. Average limit**

EUT: B350
Customer:: VXI
Test Mode: CH.78;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: BATTERY
Comments: Marker placed on transmit signal

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.482965932 GHz 90.88 dB μ V/m

Level [dB μ V/m]

3-18GHz (2402MHz)**Note: Peak Reading vs. Average limit**

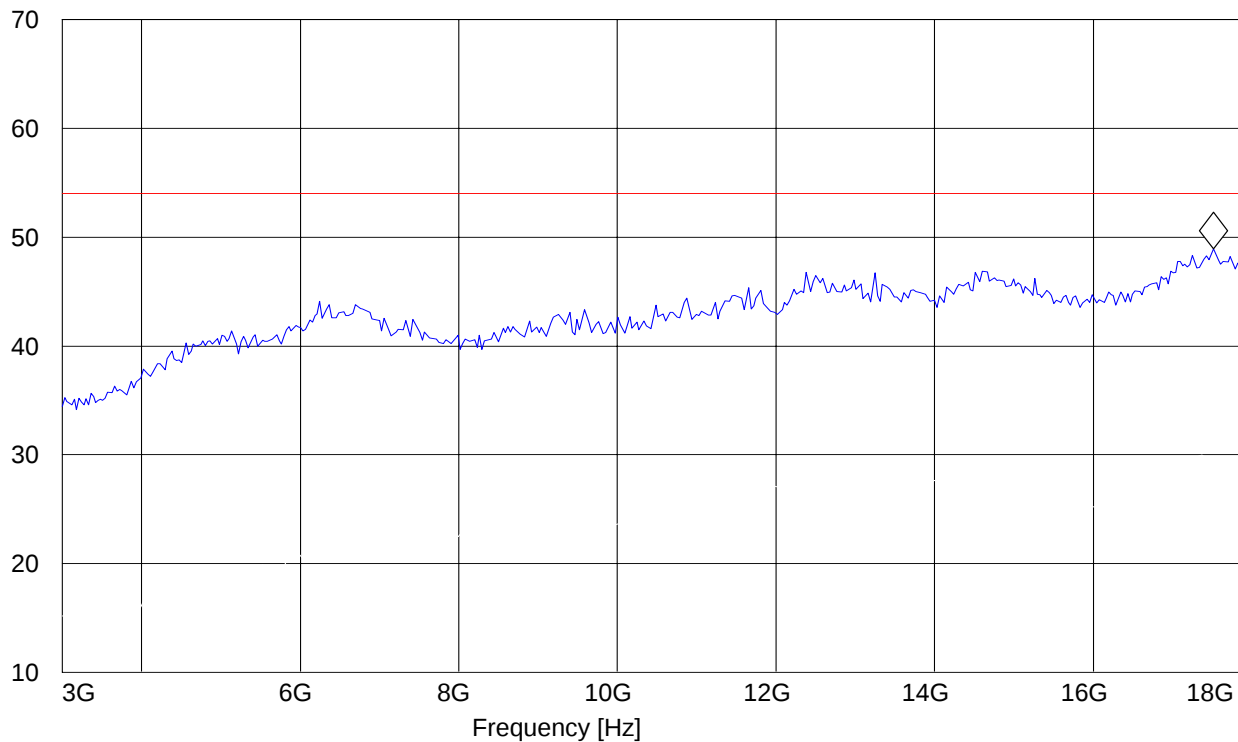
EUT: B350
Customer:: VXI
Test Mode: CH. 0;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments: with 2.4 GHz notch filter

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 17.519038076 GHz 48.95 dB μ V/m

Level [dB μ V/m]



3-18GHz (2441MHz)**Note: Peak Reading vs. Average limit**

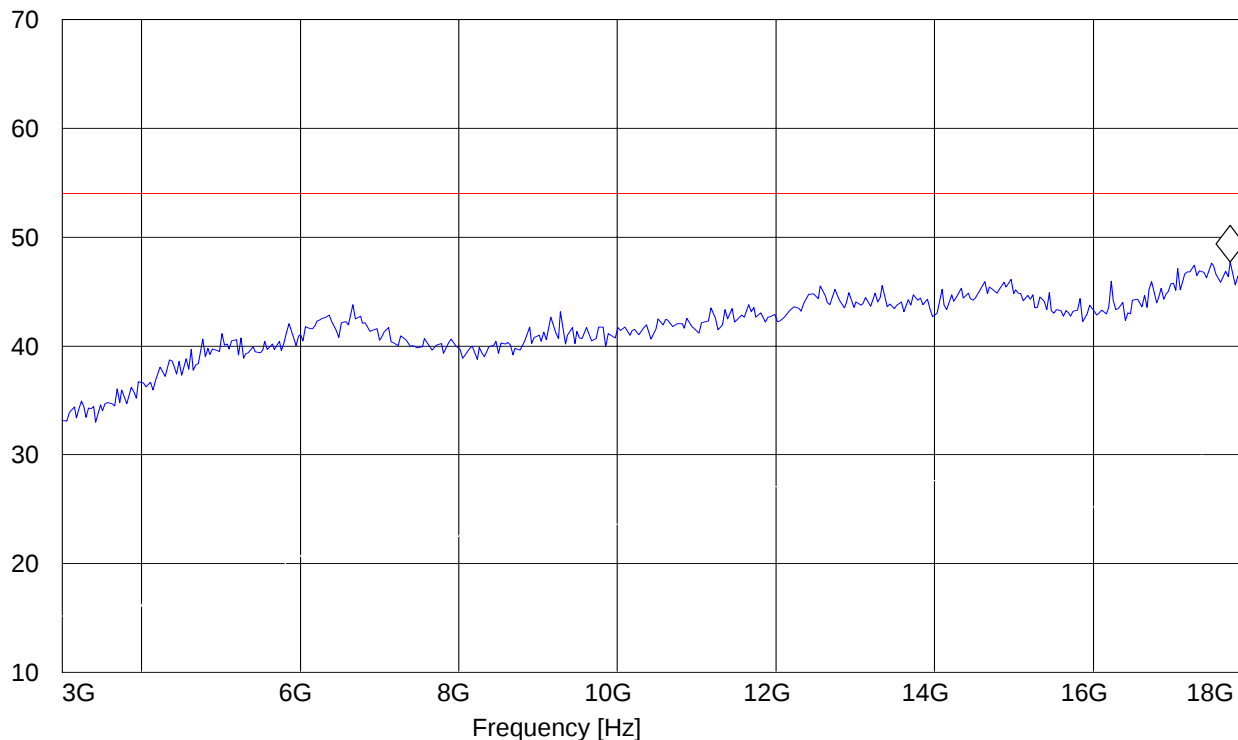
EUT: B350
Customer:: VXI
Test Mode: CH. 39;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments: with 2.4GHz notch filter

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 17.729458918 GHz 47.7 dB μ V/m

Level [dB μ V/m]



3-18GHz (2480MHz)**Note: Peak Reading vs. Average limit**

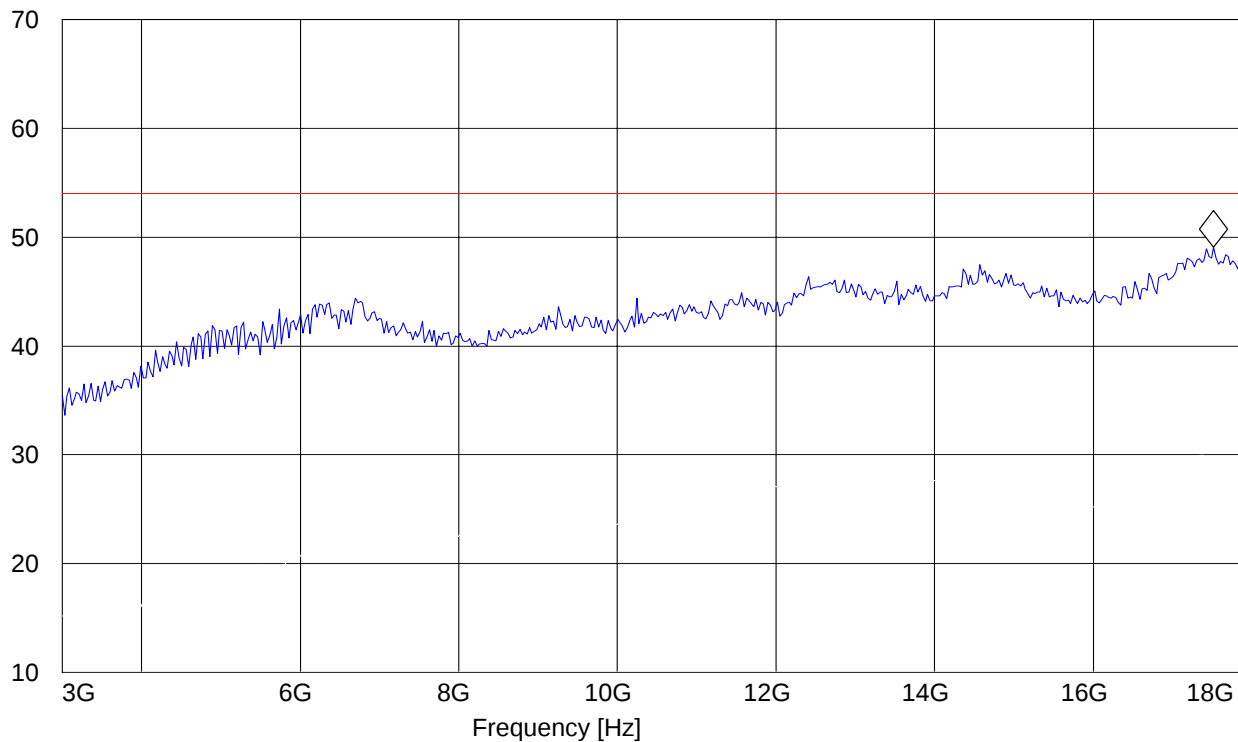
EUT: B350
Customer:: VXI
Test Mode: CH.78;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: BATTERY
Comments: with 2.4GHz notch filter

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 17.519038076 GHz 49.05 dB μ V/m

Level [dB μ V/m]

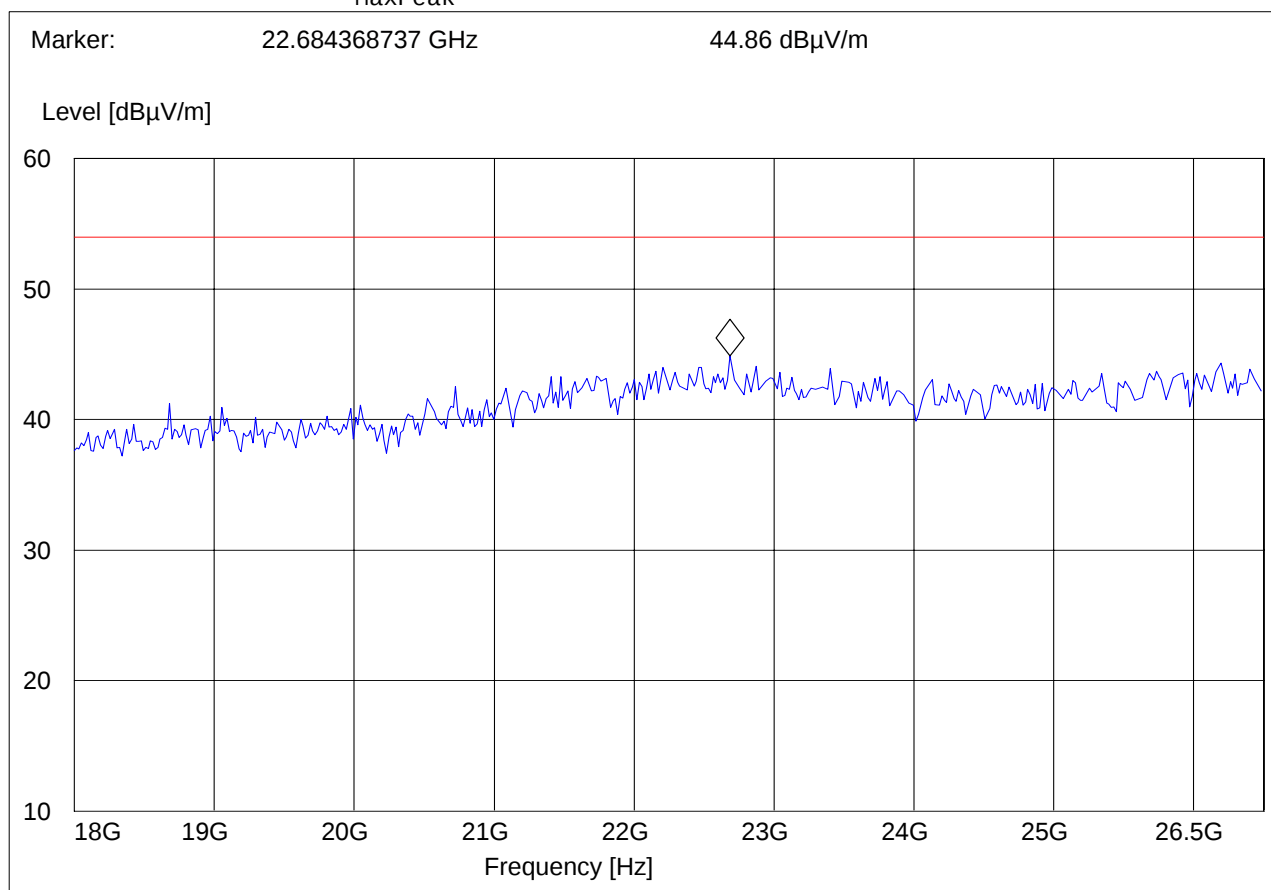


18-25GHz**Note: This plot is valid for low, mid, high channels (worst-case plot)****Note: Peak Reading vs. Average limit**

EUT: B350
Customer:: VXI
Test Mode: CH. 39;
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak MaxPeak	Coupled	100 kHz	Horn # 3116_18-40G



5.4 RECEIVER RADIATED EMISSIONS**§ 2.1053 / RSS-132 & 133****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 3GHz and 26.5GHz very short cable connections to the antenna was used to minimize the noise level.

Limits**SUBCLAUSE § RSS-133**

Frequency (MHz)	Field strength (µV/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

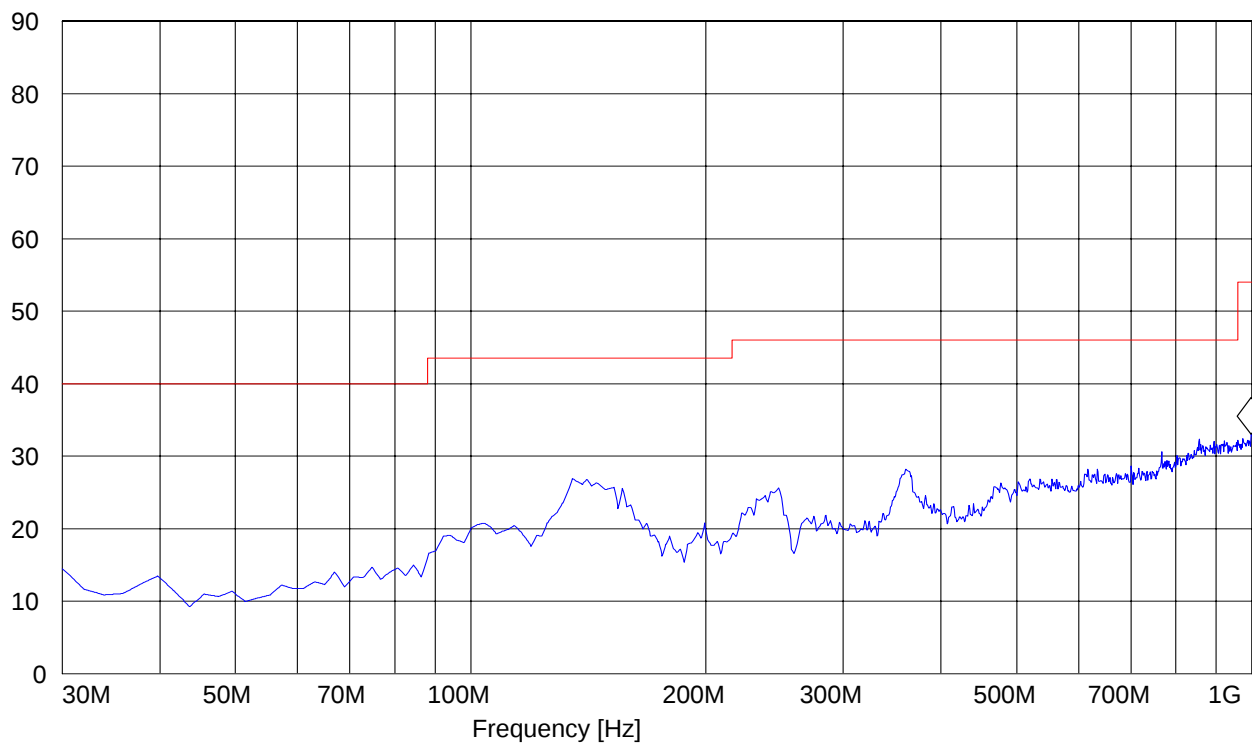
30MHz – 1GHz**Antenna: vertical****Note: This plot is valid for low, mid, high channels (worst-case plot)**

EUT: B350
Customer:: VXI
Test Mode: Standby
ANT Orientation: V
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 998.056112 MHz

33.05 dB μ V/mLevel [dB μ V/m]

30MHz – 1GHz**Antenna: horizontal****Note: This plot is valid for low, mid, high channels (worst-case plot)**

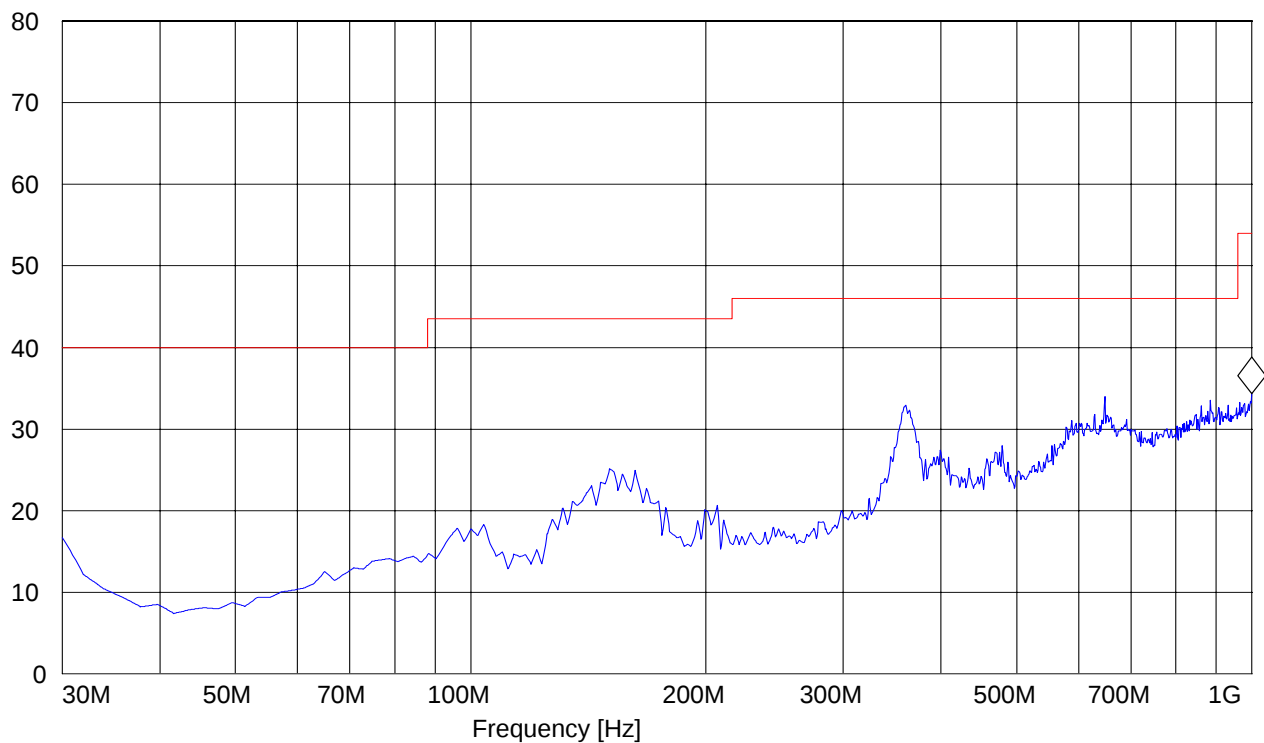
EUT: B350
Customer:: VXI
Test Mode: Standby
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

Marker: 1 GHz 34.32 dBμV/m

Level [dBμV/m]



1-3GHz**Note: Peak Reading vs. Average limit**

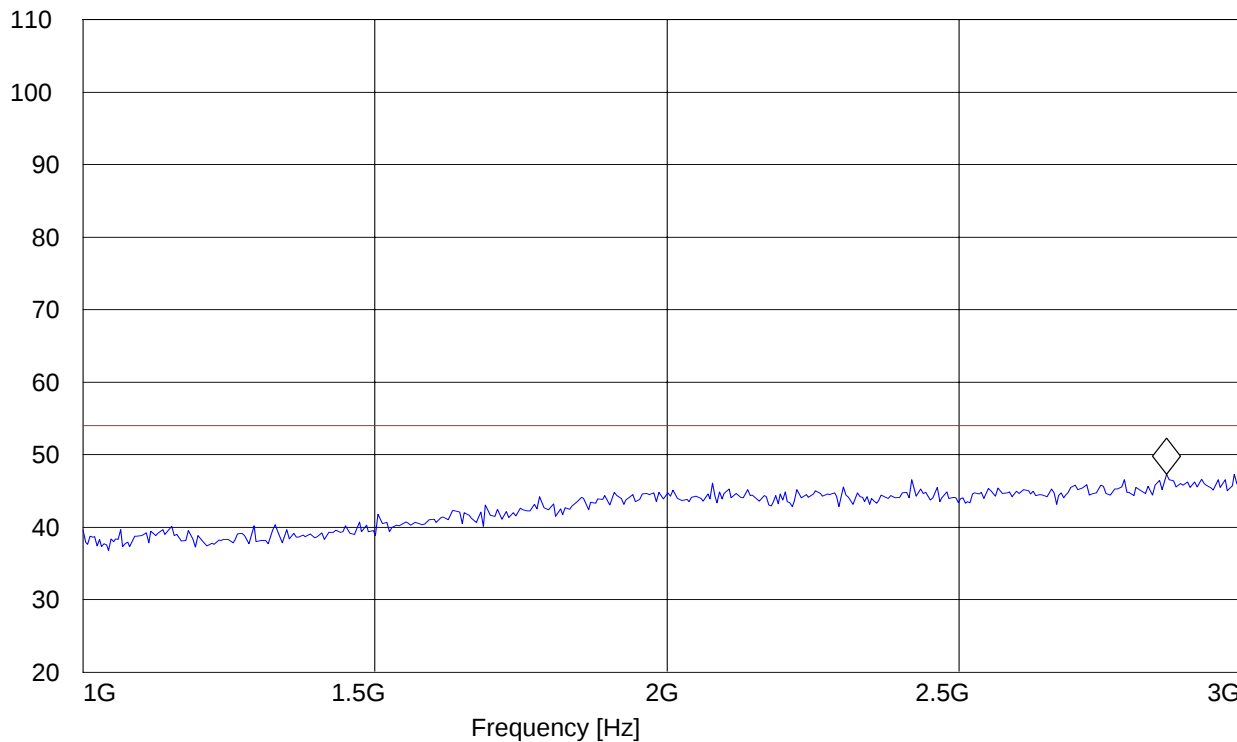
EUT: B350
Customer:: VXI
Test Mode: Standby
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.855711423 GHz 47.31 dB μ V/m

Level [dB μ V/m]



3-18GHz**Note: Peak Reading vs. Average limit**

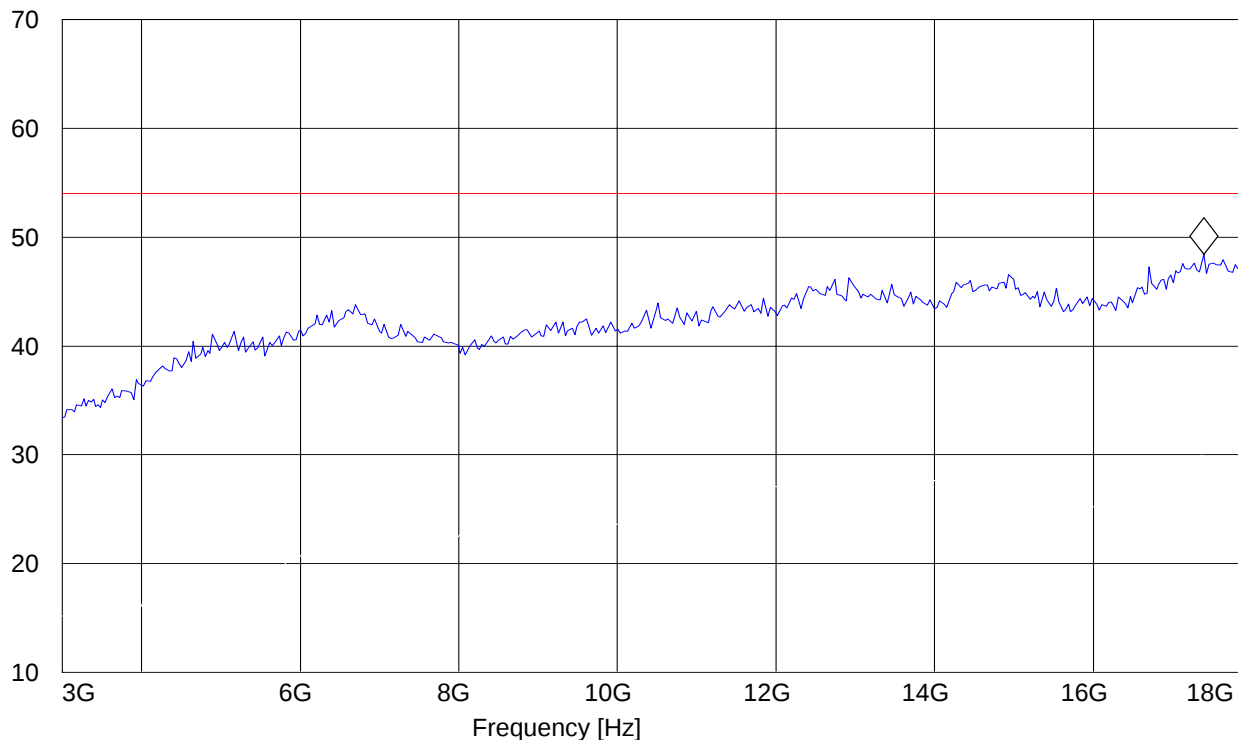
EUT: B350
Customer:: VXI
Test Mode: Standby
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 17.398797595 GHz 48.44 dB μ V/m

Level [dB μ V/m]



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18-25GHz

Note: Peak Reading vs. Average limit

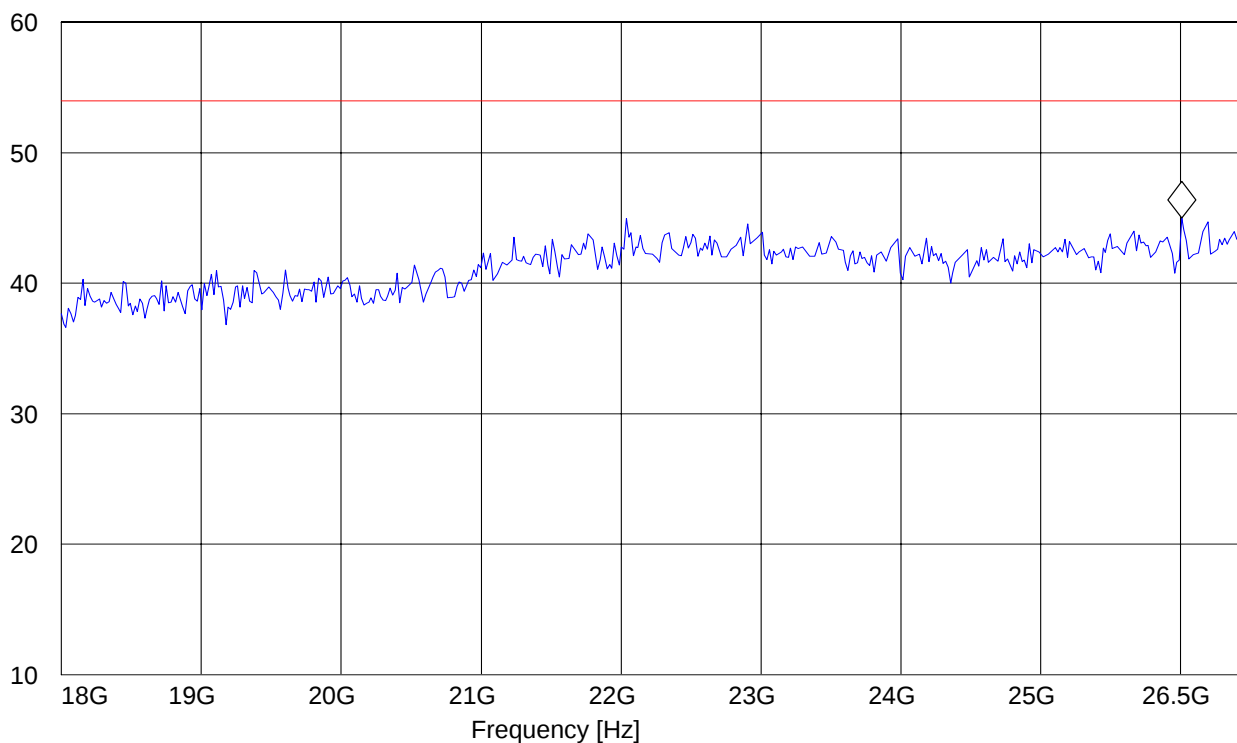
EUT: B350
Customer:: VXI
Test Mode: Standby
ANT Orientation: H
EUT Orientation: H
Test Engineer: Chris
Voltage: Battery
Comments:

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak MaxPeak	Coupled	100 kHz	Horn # 3116_18-40G

Marker: 26.006012024 GHz 45.01 dBμV/m

Level [dBμV/m]



6 Measurements (Conducted)

6.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (CONDUCTED)

6.1.1 LIMIT SUB CLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz	30dBm

*limit is based upon antenna gain of less than or equal to 6dBi.

6.1.2 RESULTS:

Conducted Peak Power: GFSK

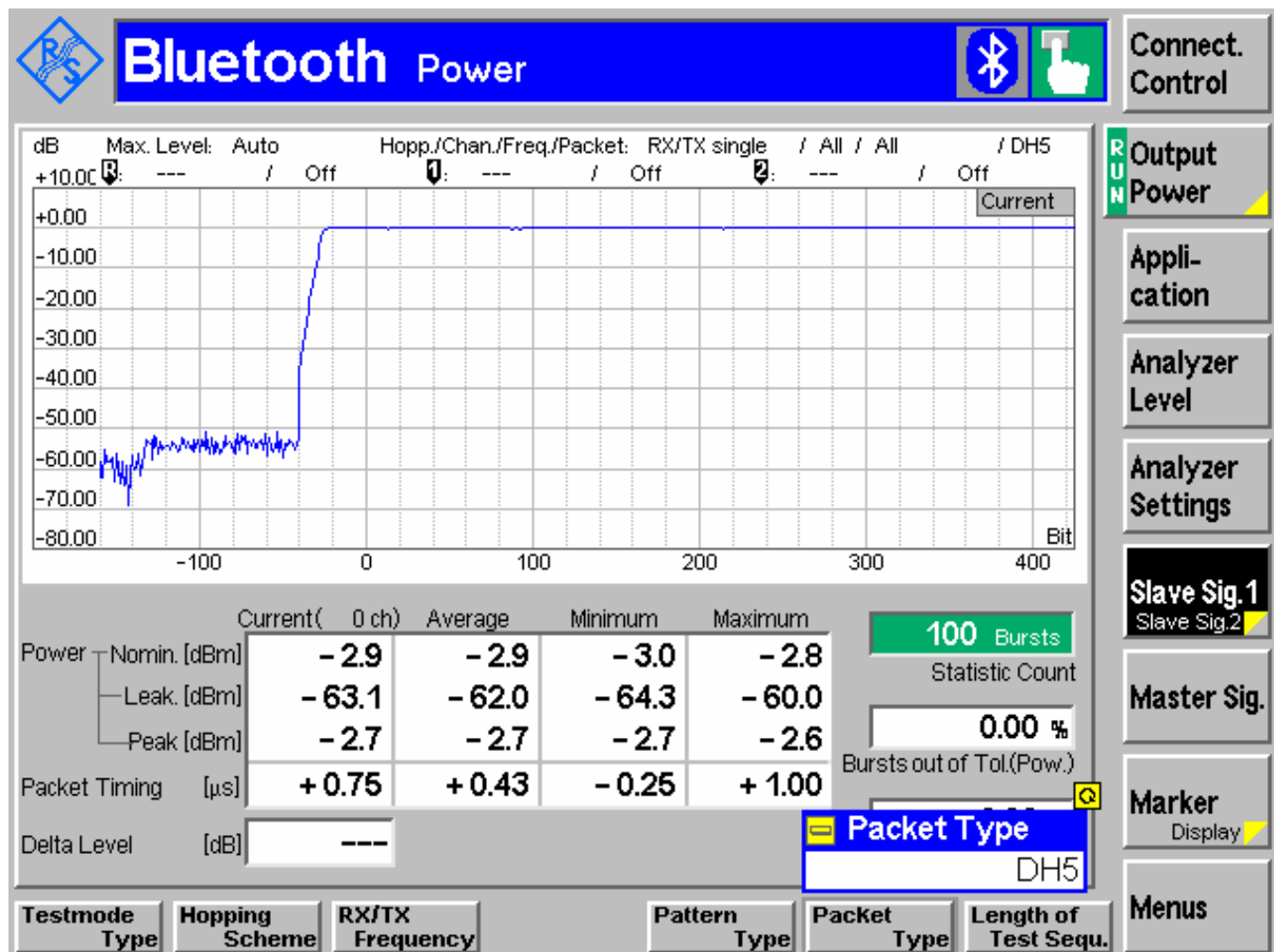
TEST CONDITIONS		Conducted Peak Power (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-2.6	-3.1	-2.0
Measurement uncertainty		±0.5dBm		

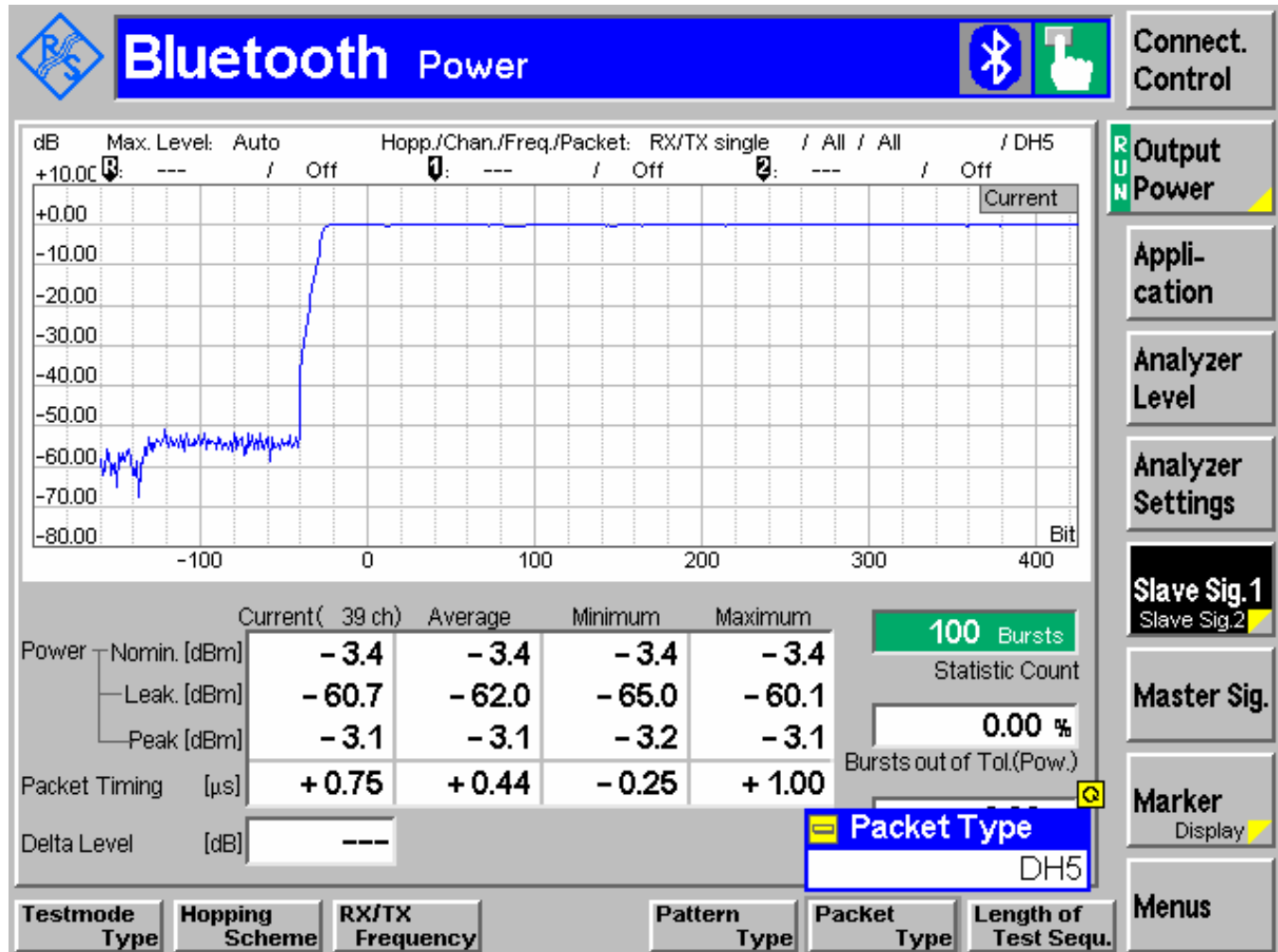
Conducted Peak Power: $\pi / 4$ DQPSK

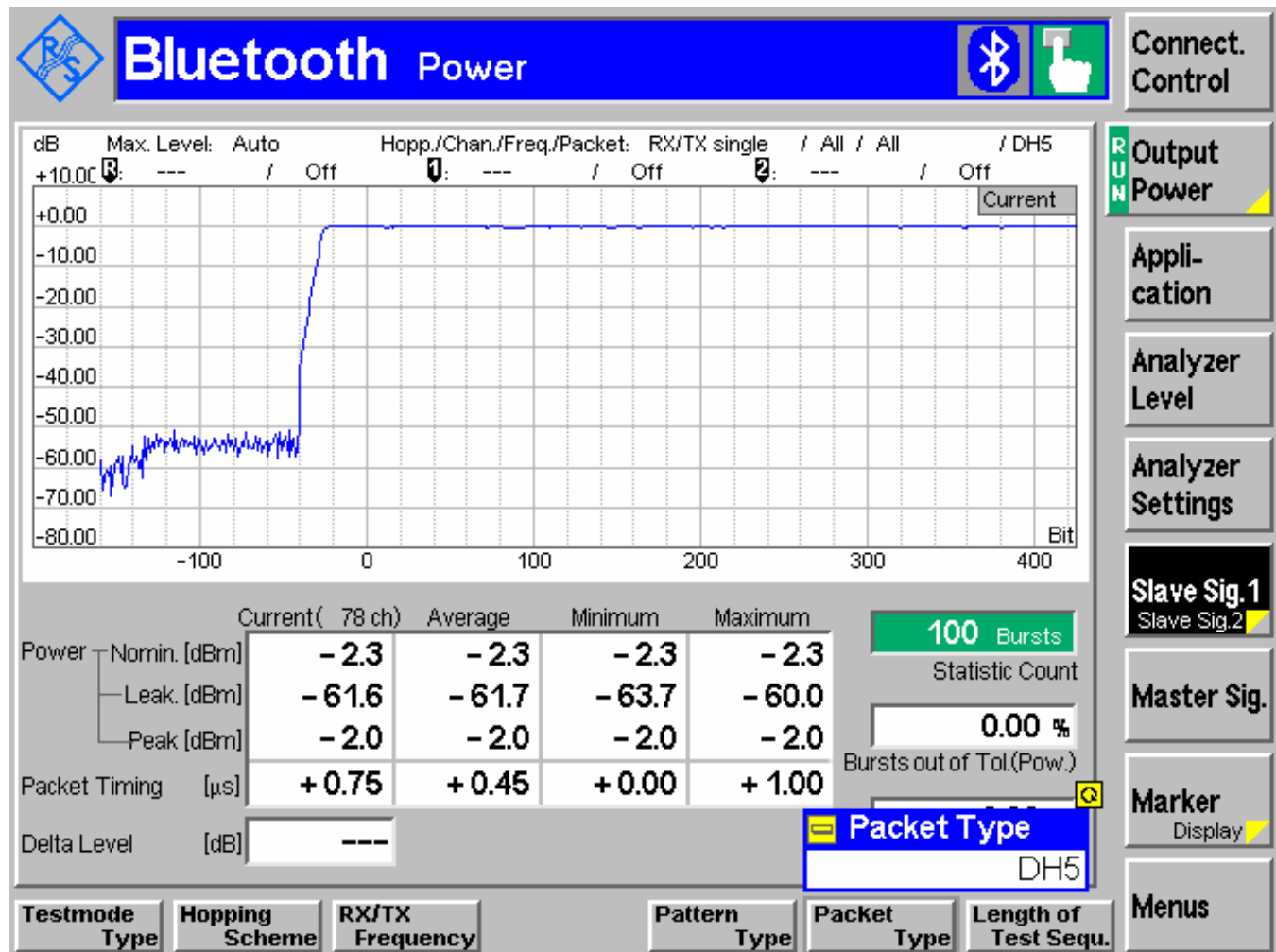
TEST CONDITIONS		Conducted Peak Power (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-2.2	-2.8	-1.8
Measurement uncertainty		±0.5dBm		

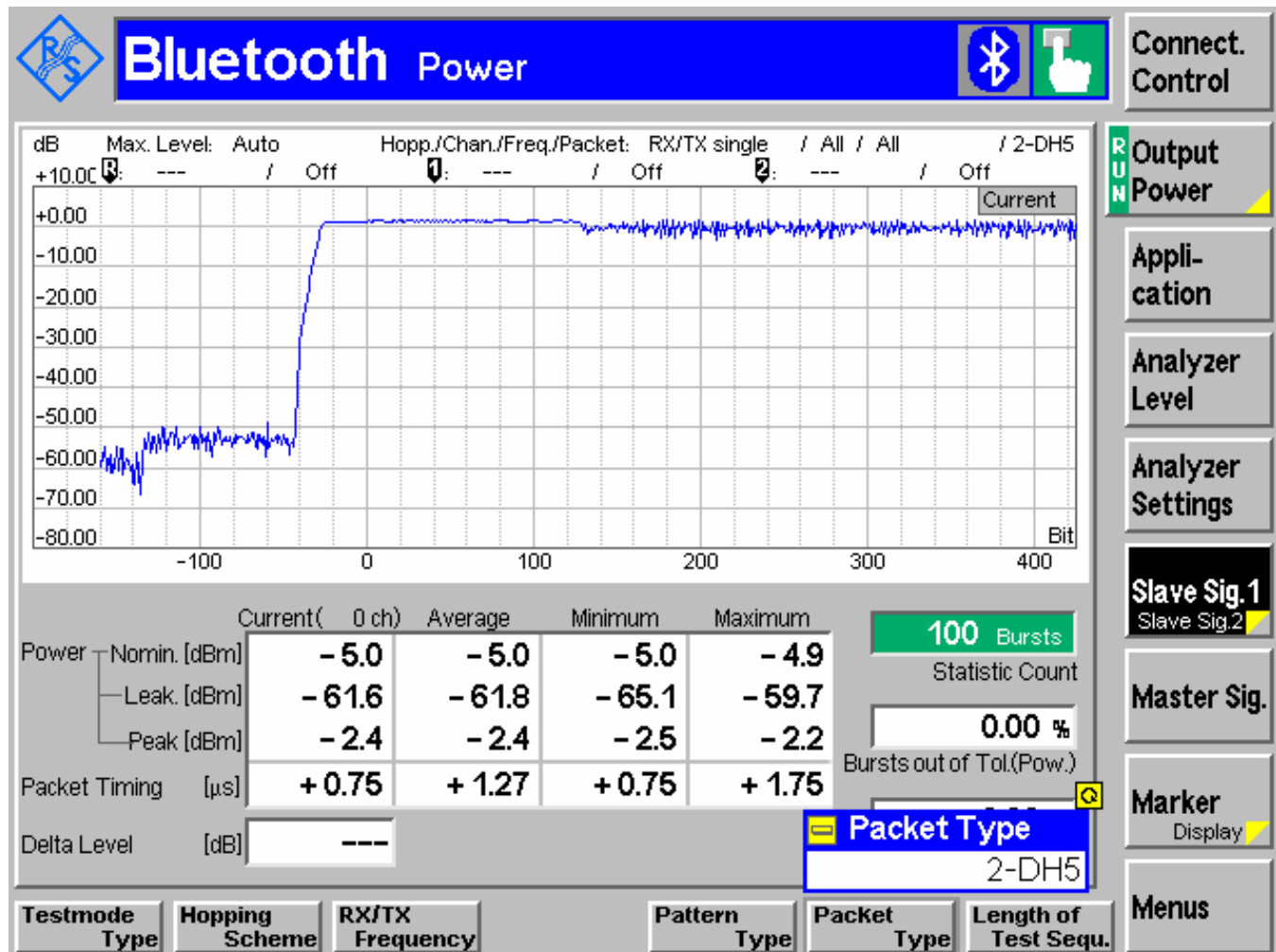
Conducted Peak Power: 8DPSK

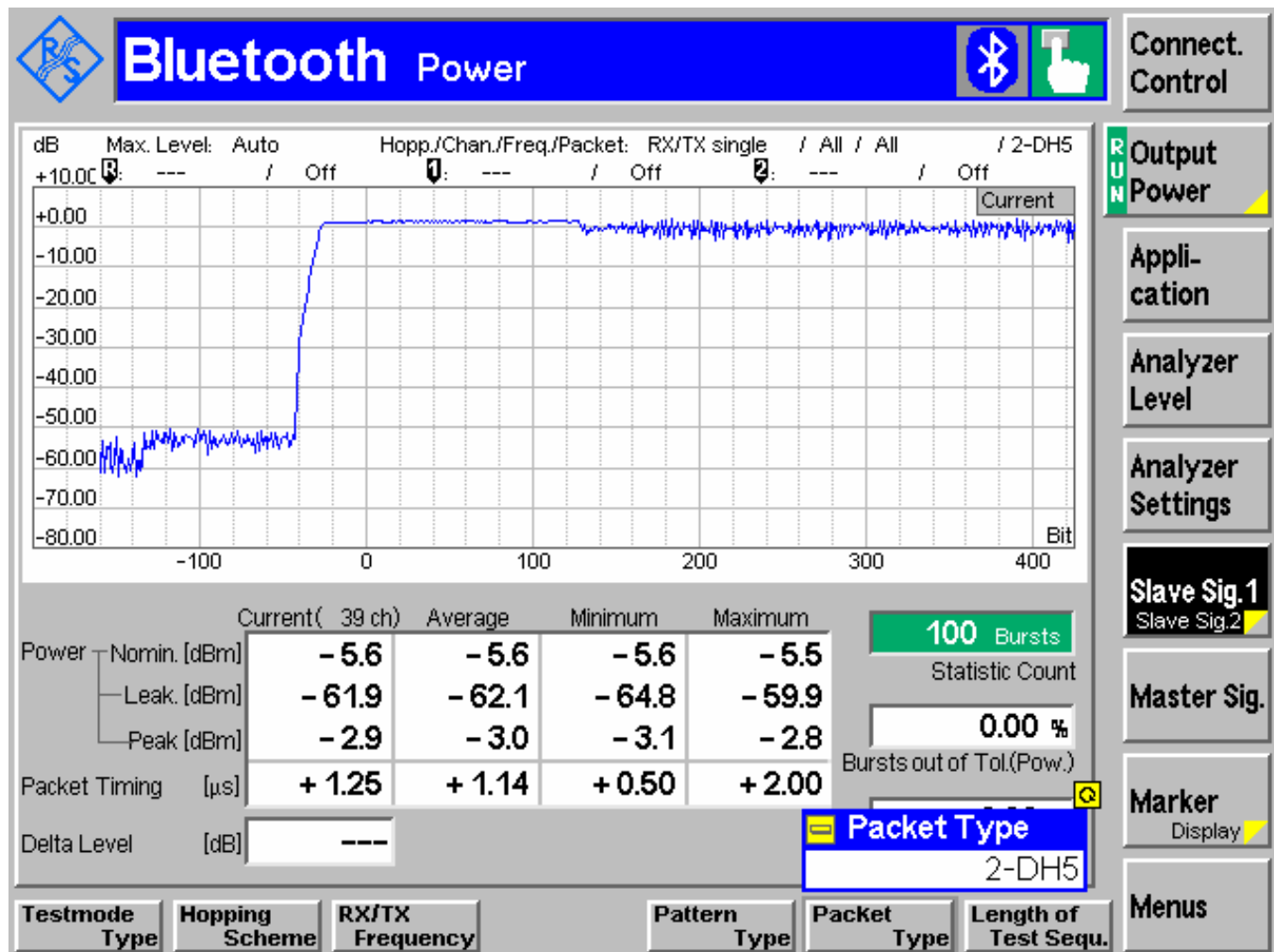
TEST CONDITIONS		Conducted Peak Power (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-2.1	-2.7	-1.6
Measurement uncertainty		±0.5dBm		

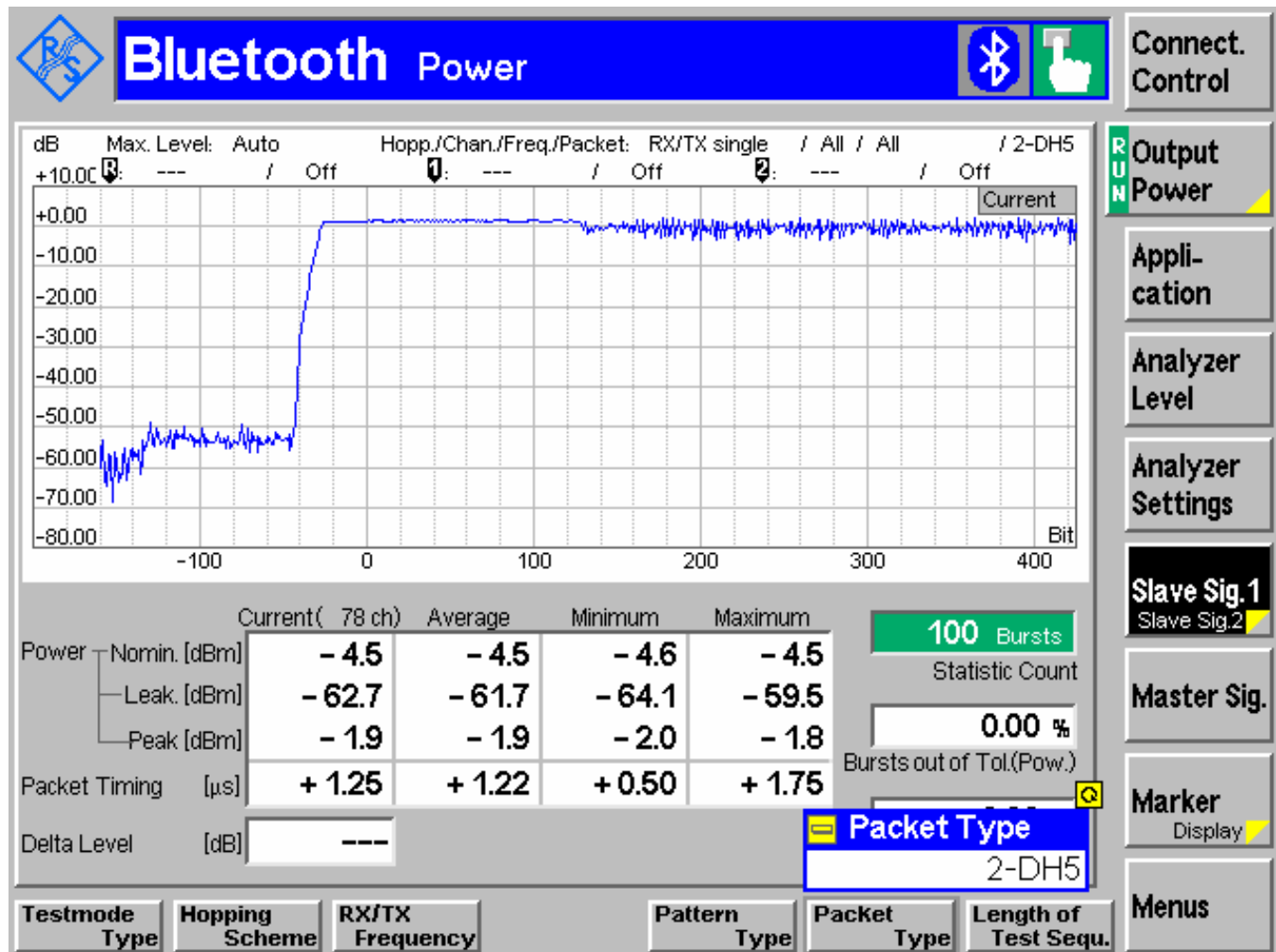
Conducted Peak Power GFSK 2402 MHz

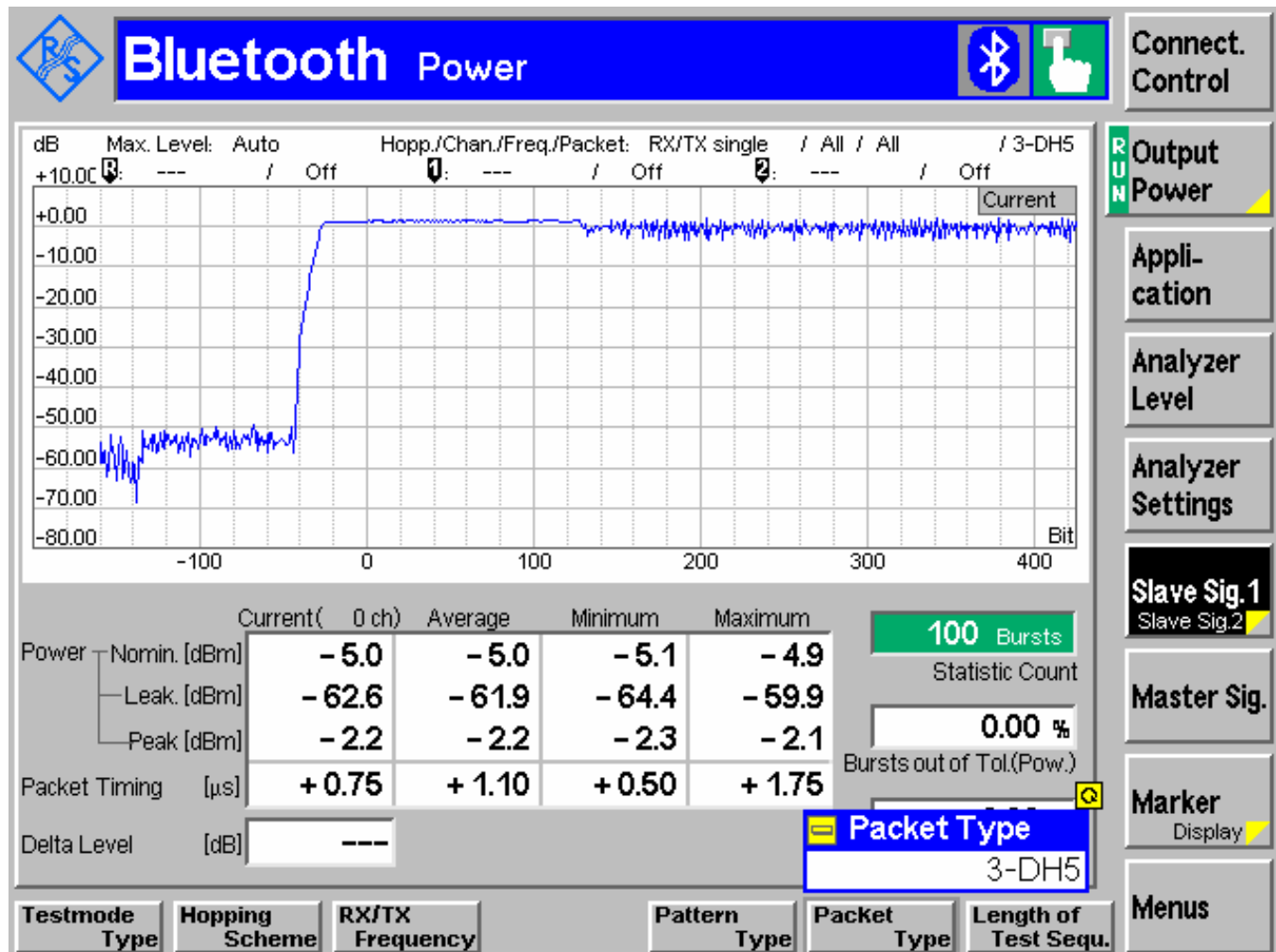
Conducted Peak Power GFSK 2441 MHz

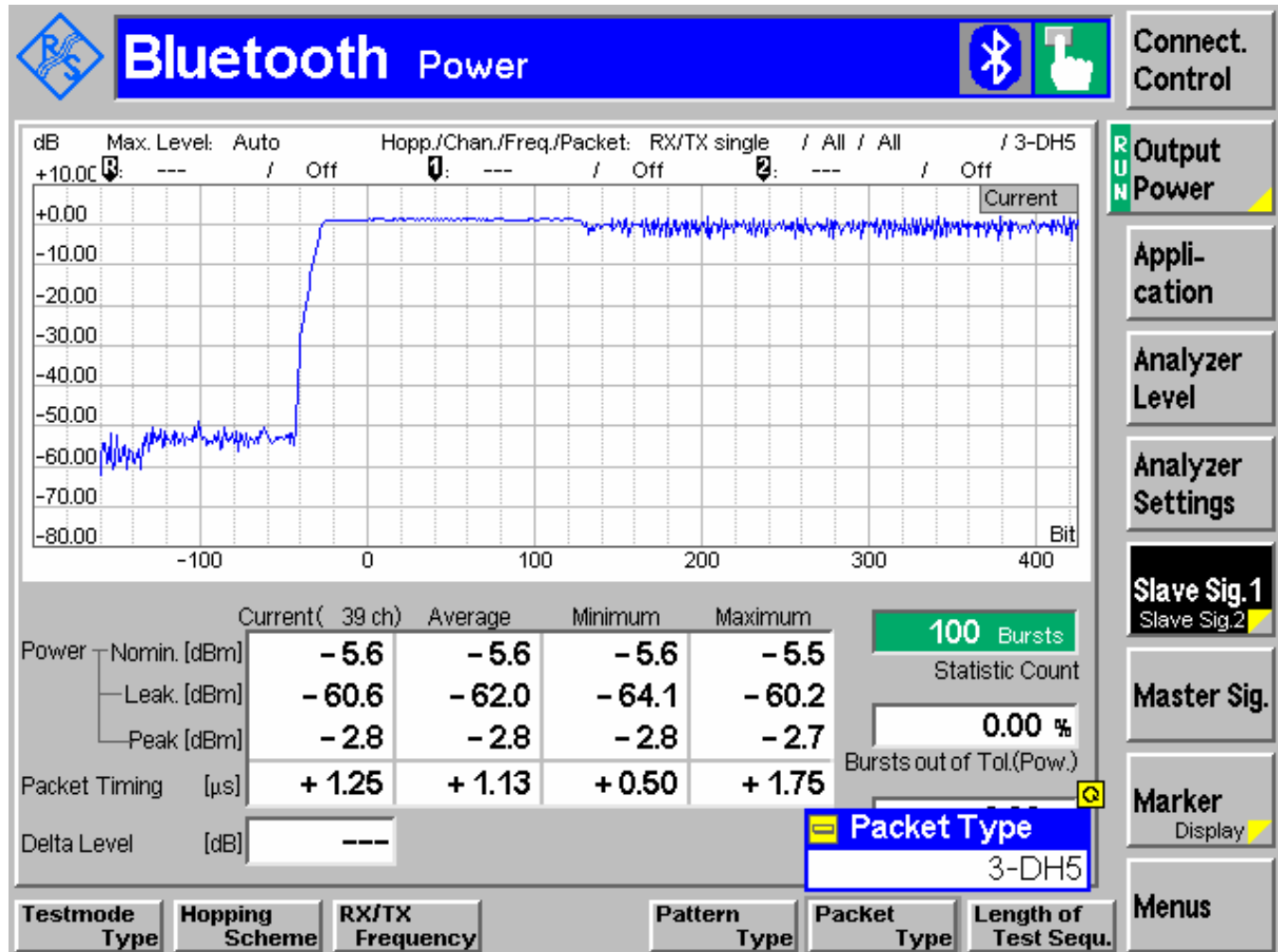
Conducted Peak Power GFSK 2480 MHz

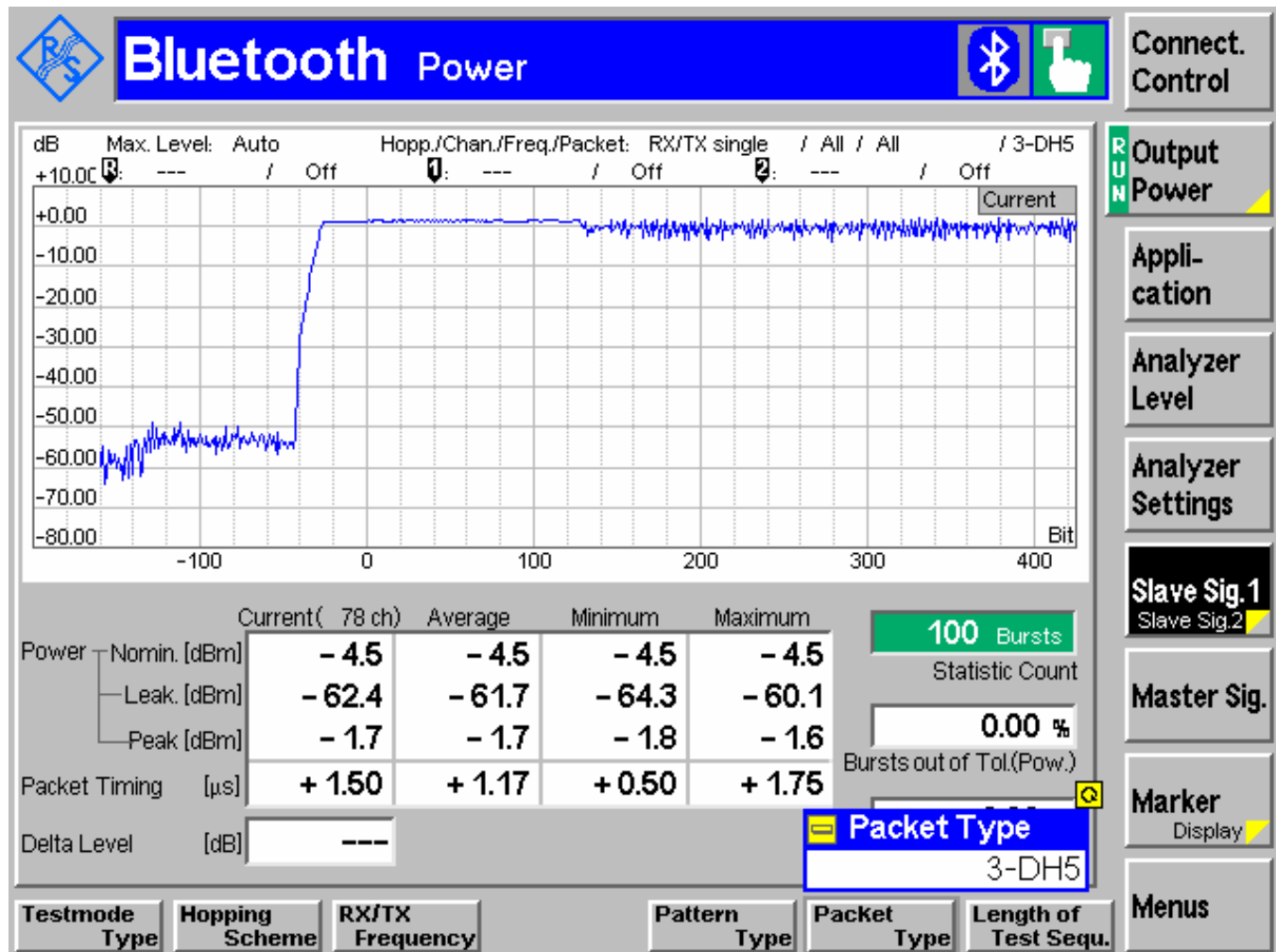
Conducted Peak Power π / 4 DQPSK 2402 MHz

Conducted Peak Power π / 4 DQPSK 2441 MHz

Conducted Peak Power π / 4 DQPSK 2480 MHz

Conducted Peak Power 8DPSK 2402 MHz

Conducted Peak Power 8DPSK 2441 MHz

Conducted Peak Power 8DPSK 2480 MHz

6.2 20dB BANDWIDTH

6.2.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.2.2 RESULTS:

20dB Bandwidth: GFSK

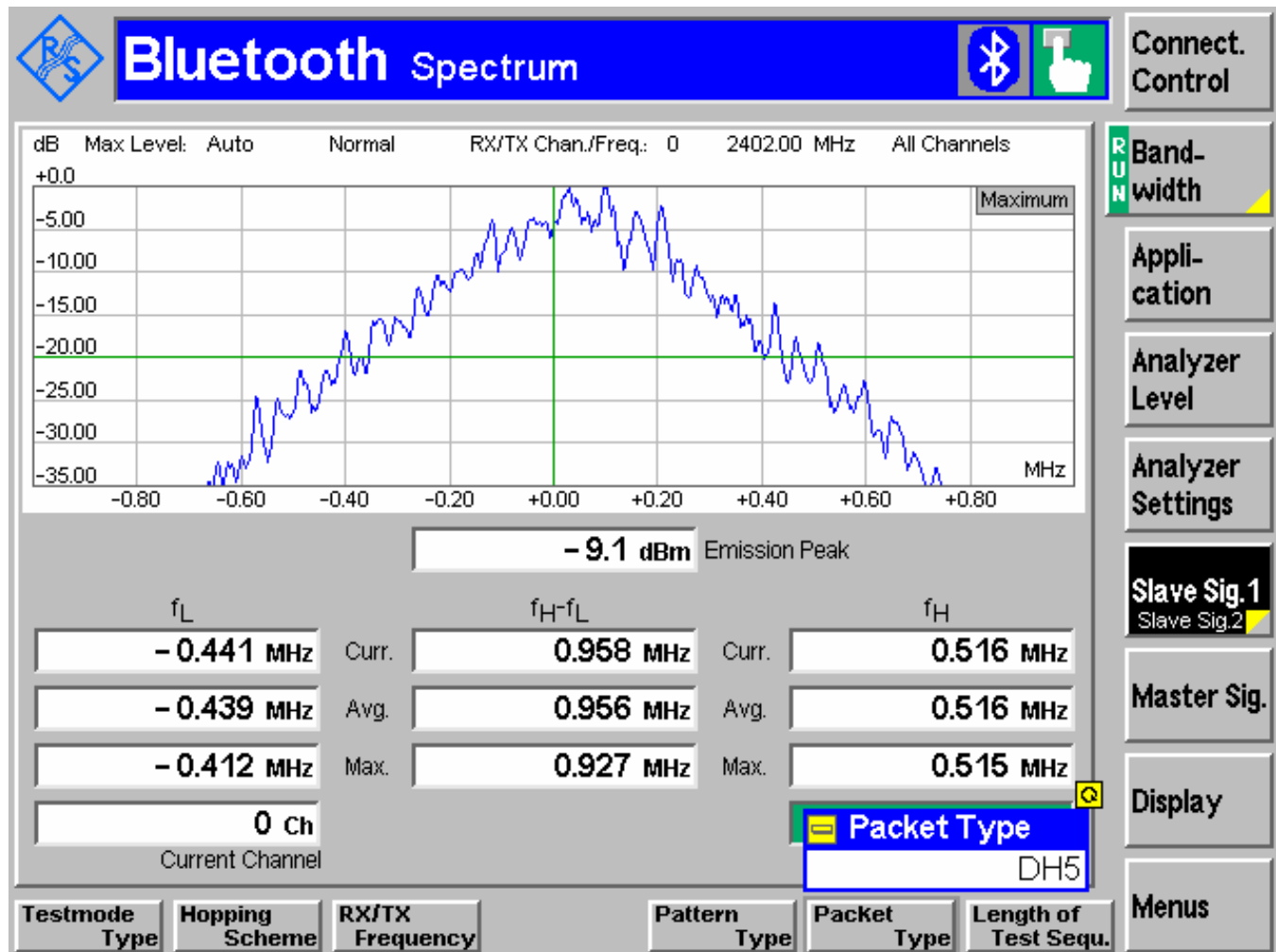
TEST CONDITIONS		20dB Bandwidth (kHz)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	926	926	926

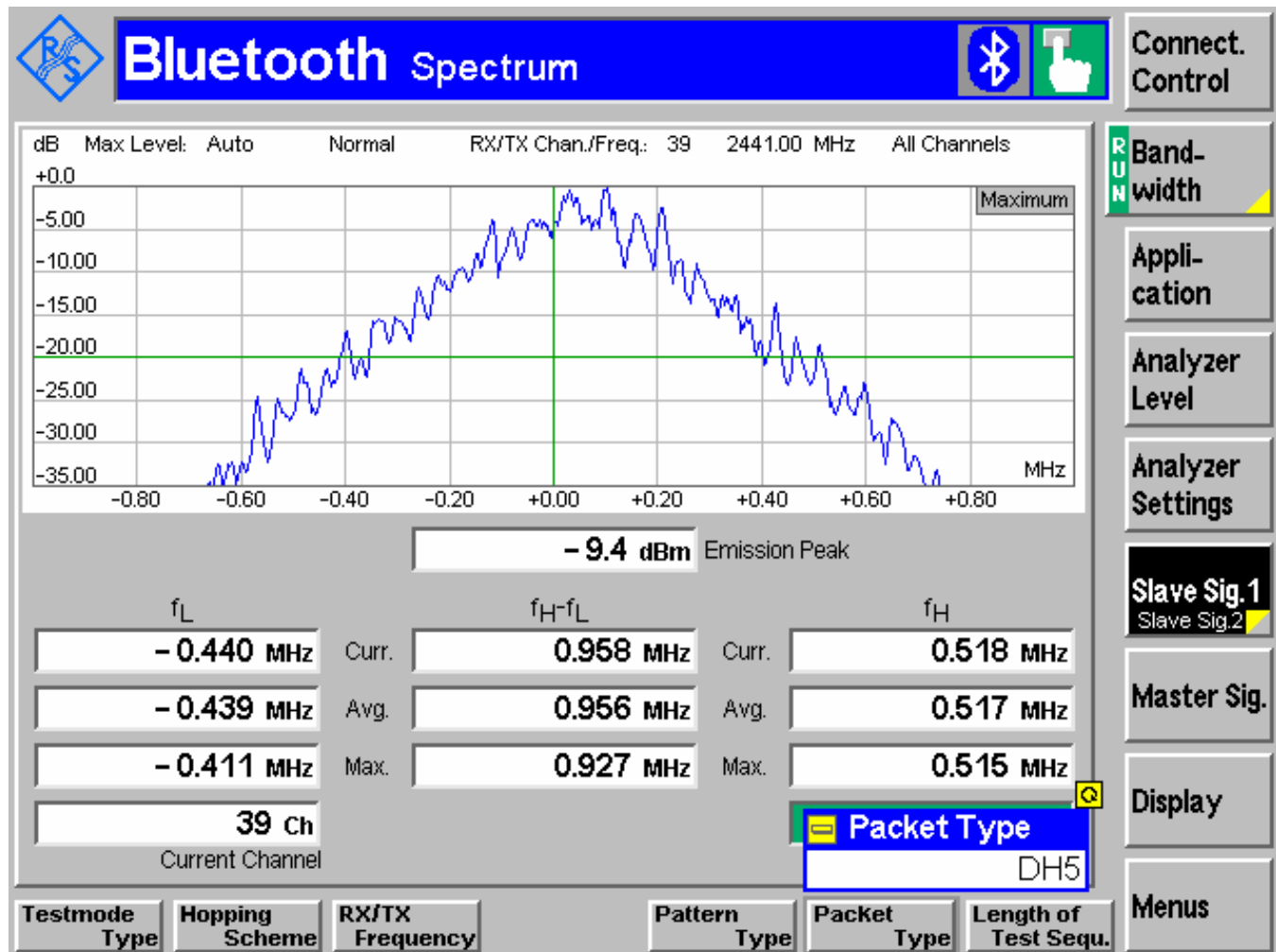
20dB Bandwidth: $\pi / 4$ DQPSK

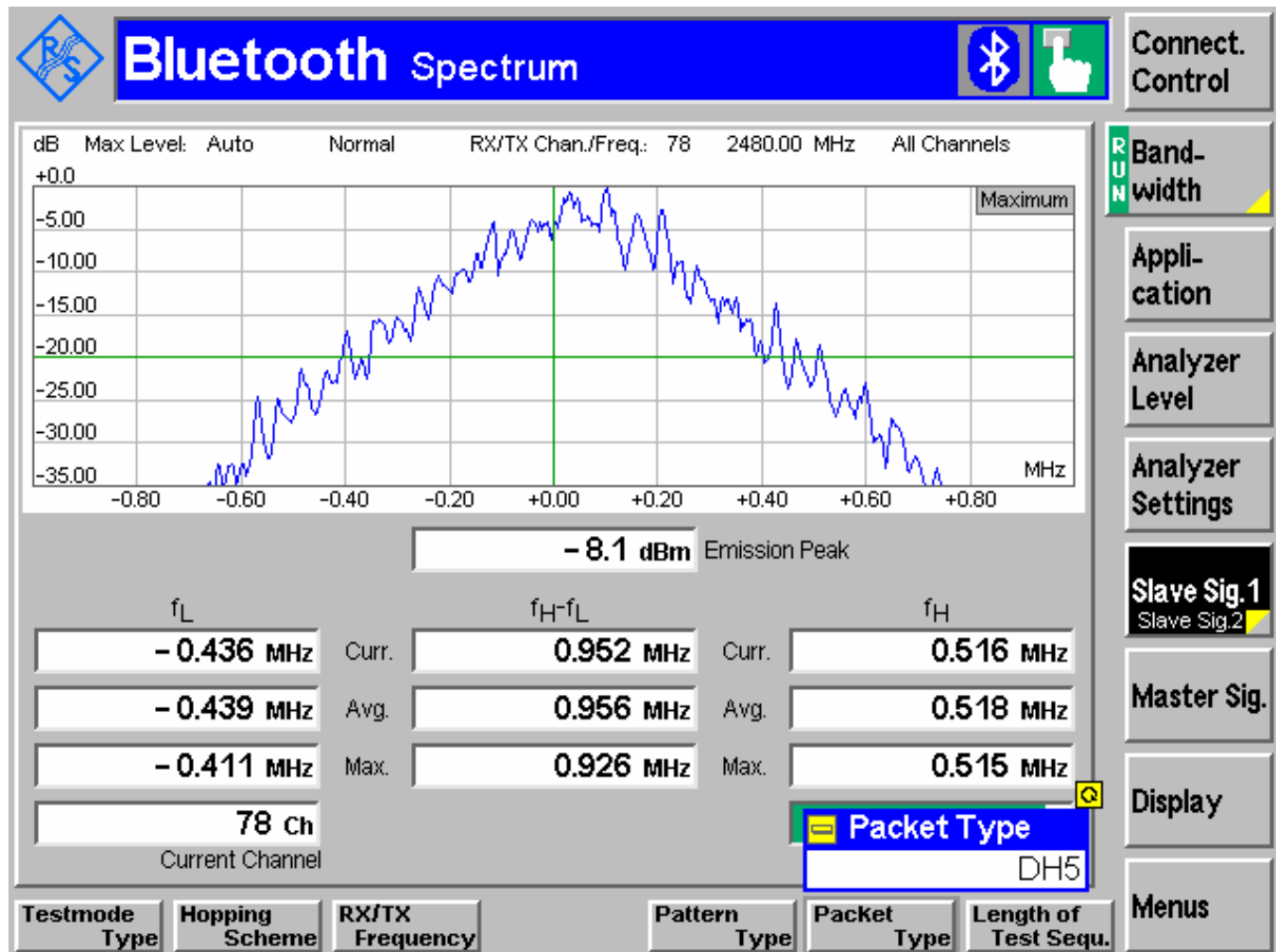
TEST CONDITIONS		20dB Bandwidth (kHz)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	1229	1265	1265

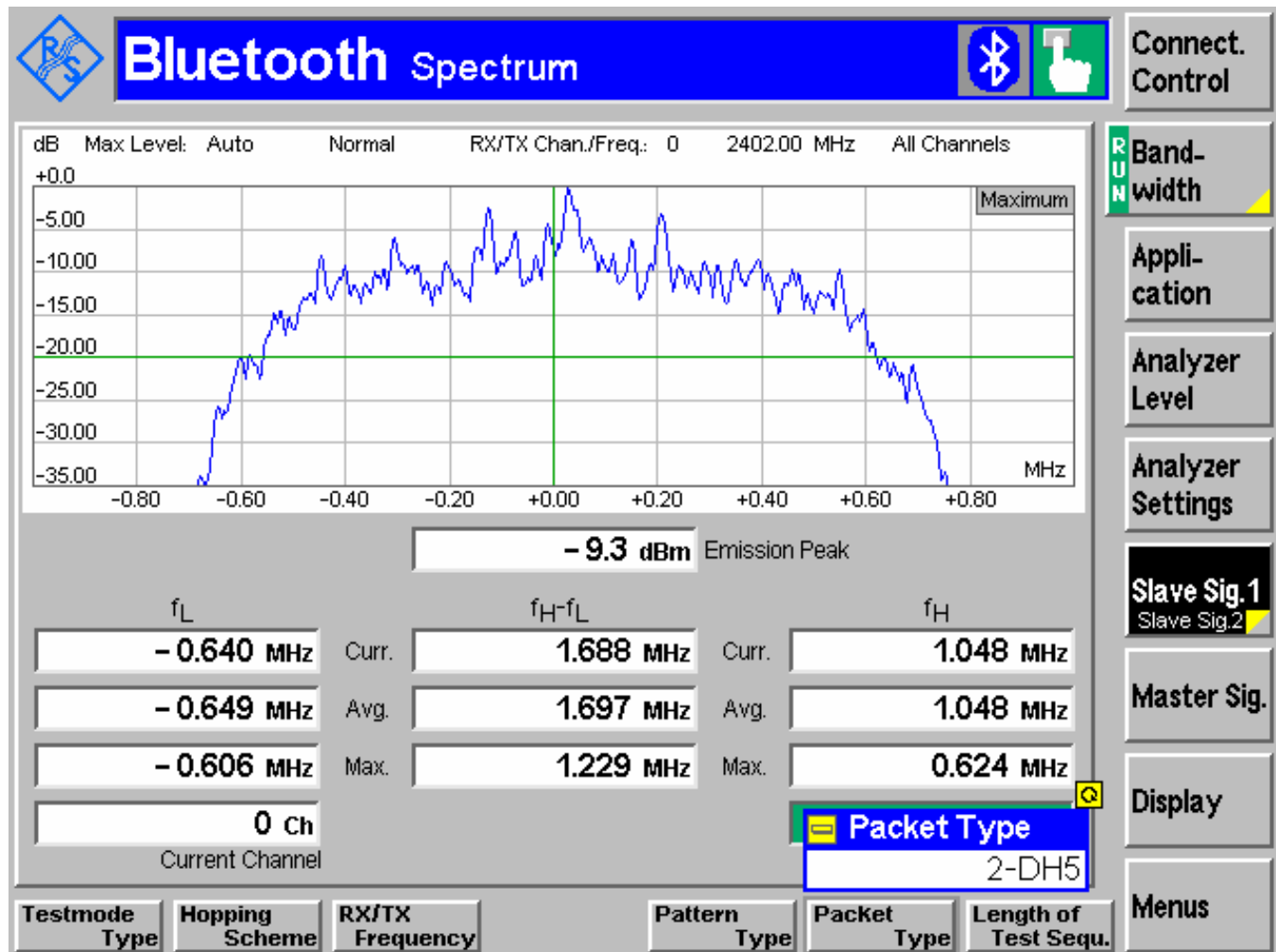
20dB Bandwidth: 8DPSK

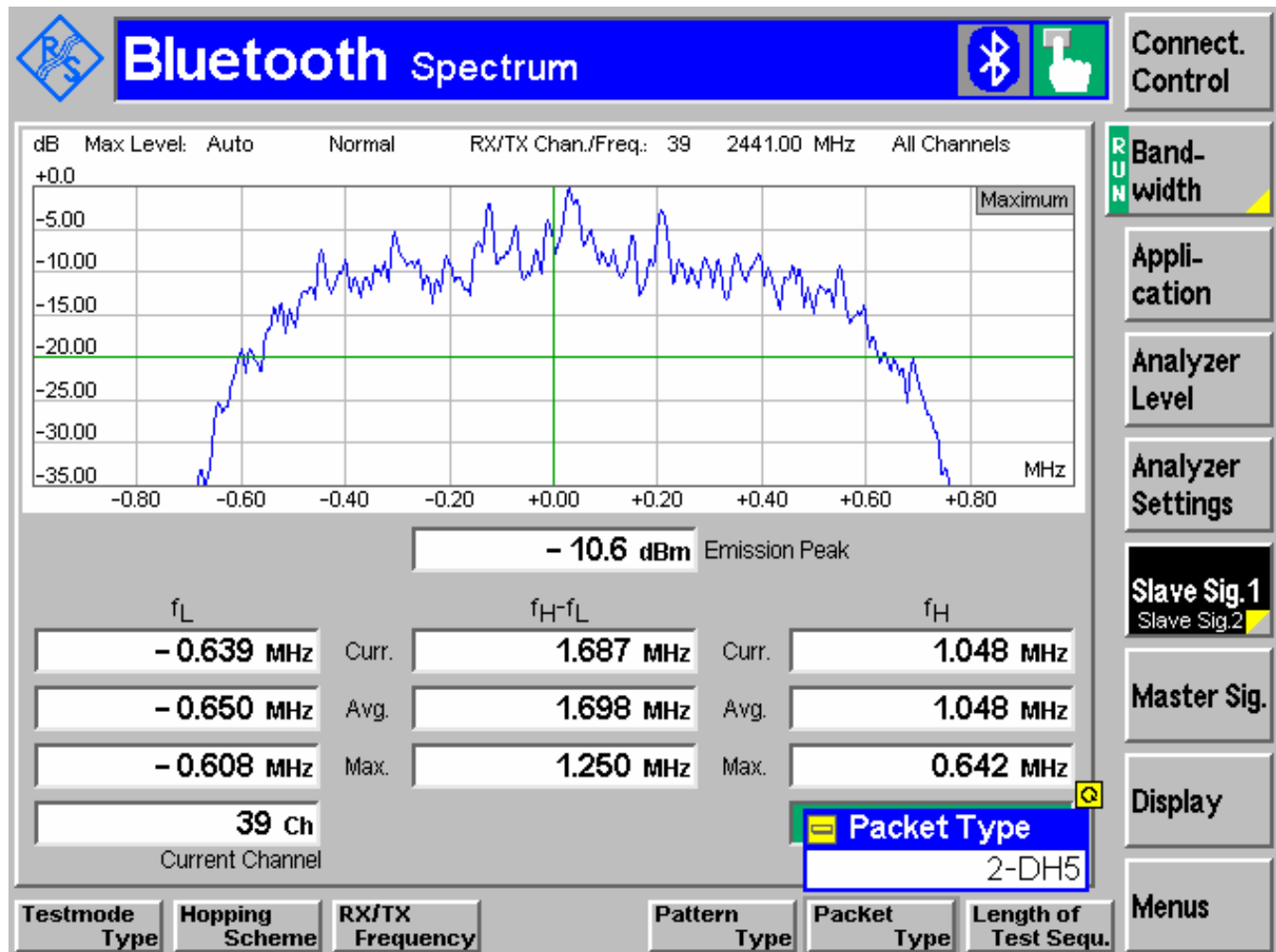
TEST CONDITIONS		20dB Bandwidth (kHz)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	1255	1258	1259

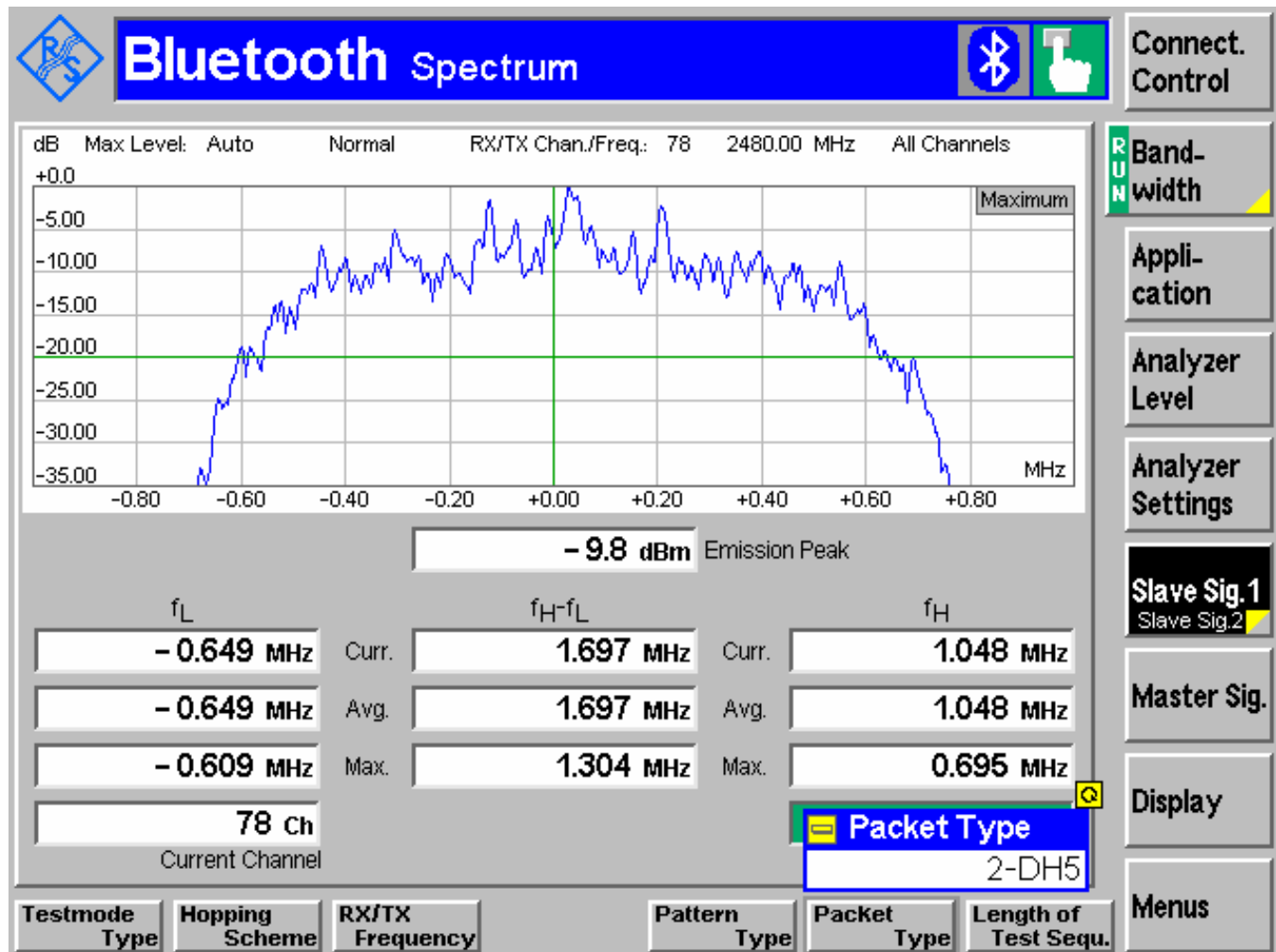
20dB Bandwidth GFSK 2402MHz

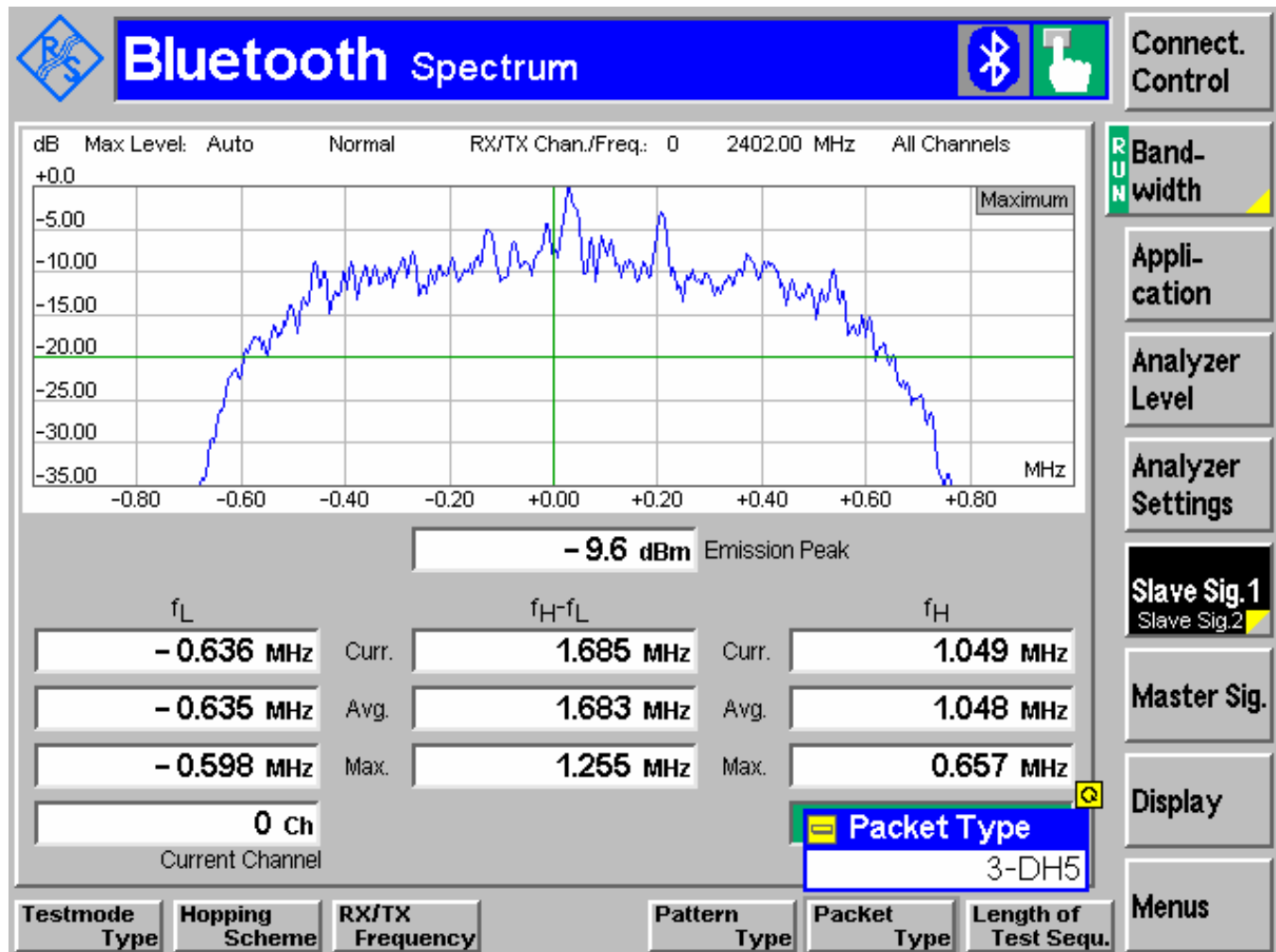
20dB Bandwidth GFSK 2441MHz

20dB Bandwidth GFSK 2480MHz

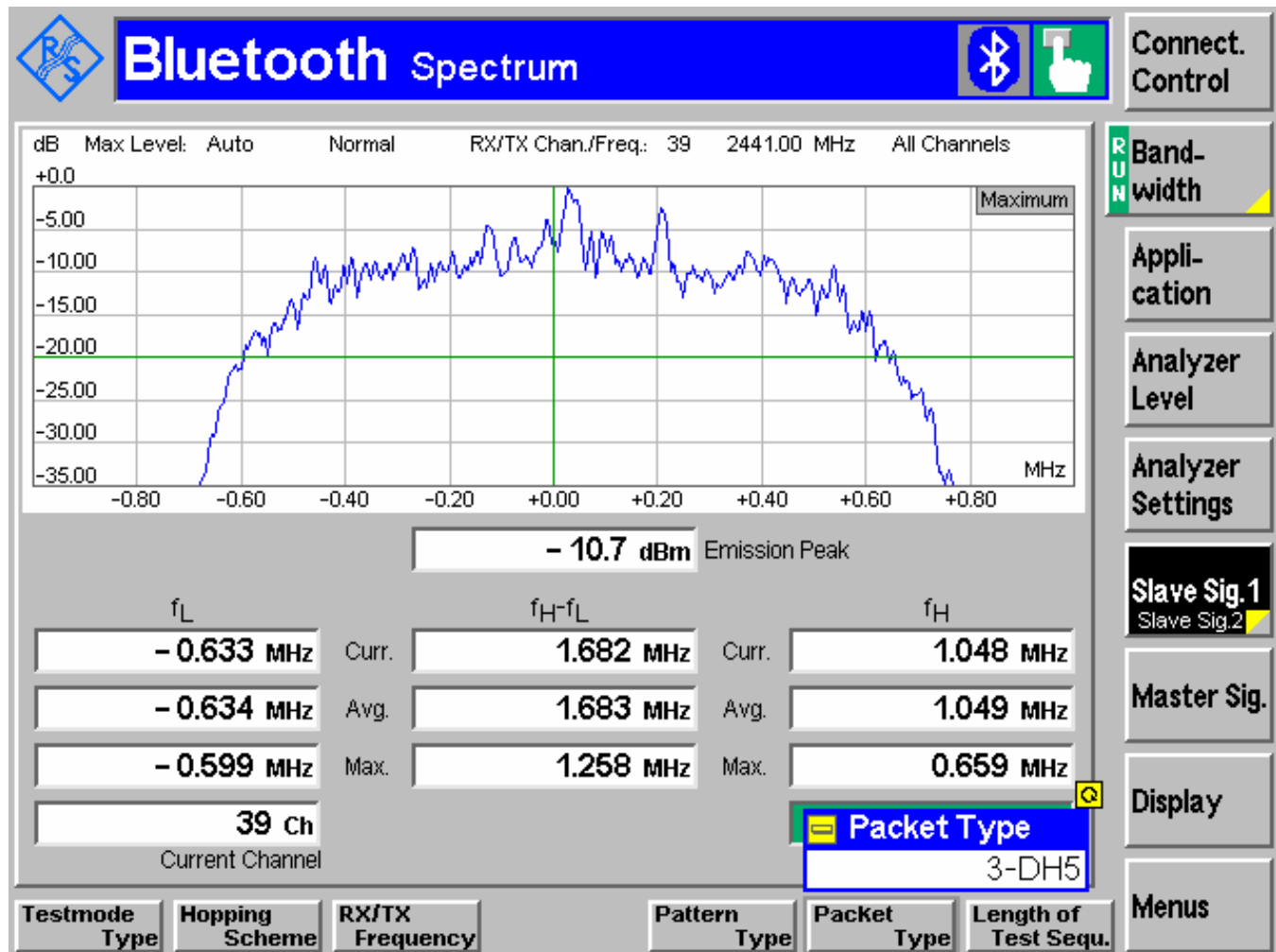
20dB Bandwidth $\pi/4$ DQPSK 2402MHz

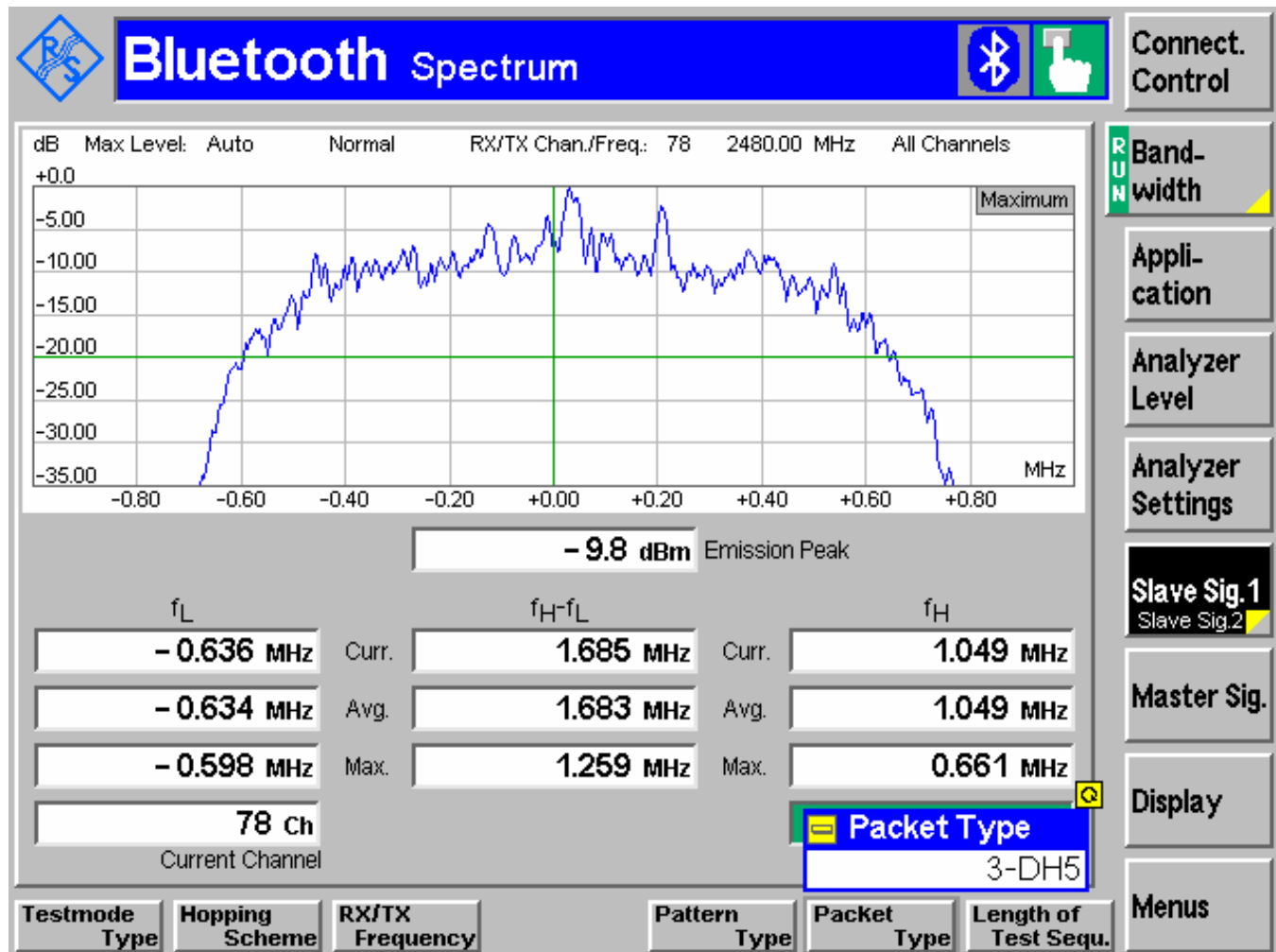
20dB Bandwidth $\pi/4$ DQPSK 2441MHz

20dB Bandwidth $\pi/4$ DQPSK 2480MHz

20dB Bandwidth 8PSK 2402MHz

20dB Bandwidth 8PSK 2441MHz



20dB Bandwidth 8PSK 2480MHz

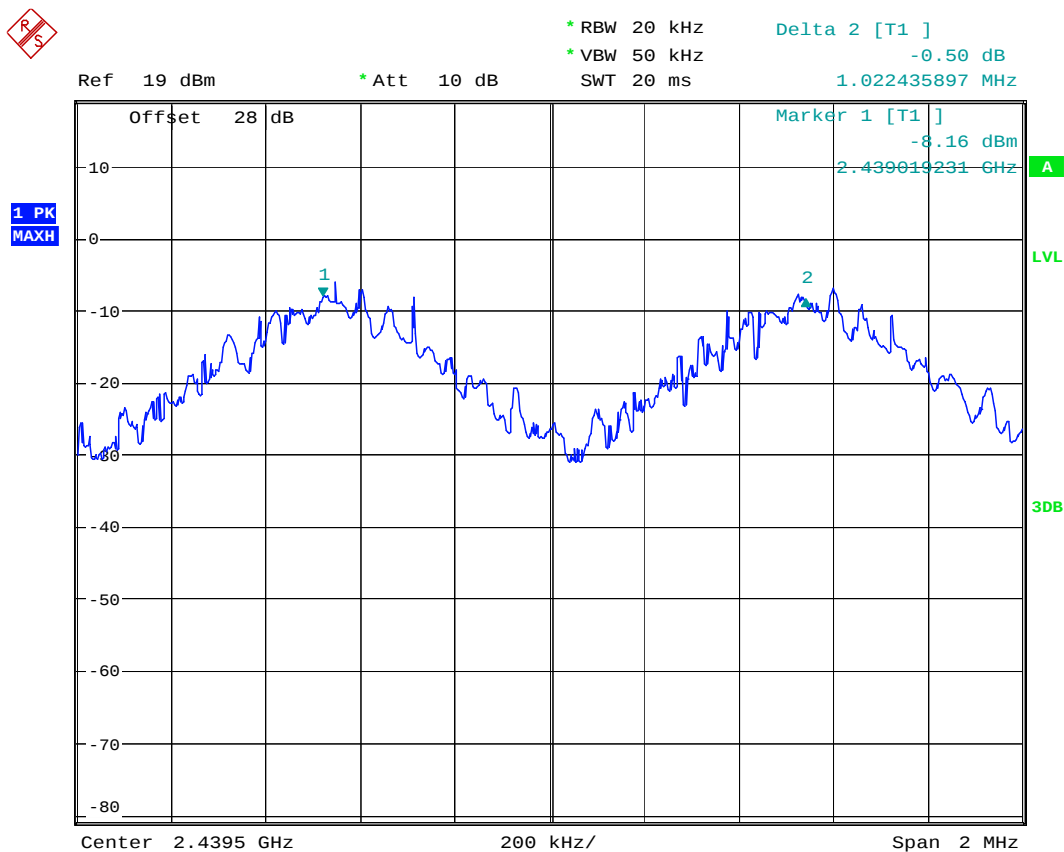
6.3 CARRIER FREQUENCY SEPARATION

6.3.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)

SEPARATION

> 25 KHz or > $2/3 * 20 \text{ dB BANDWIDTH} = 839\text{kHz}$

6.3.2 RESULTS: 1.022MHz



6.4 NUMBER OF HOPPING CHANNELS

6.4.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (iii)

NUMBER OF CHANNELS
> 15

6.4.2 RESULTS: 79



* RBW 300 kHz

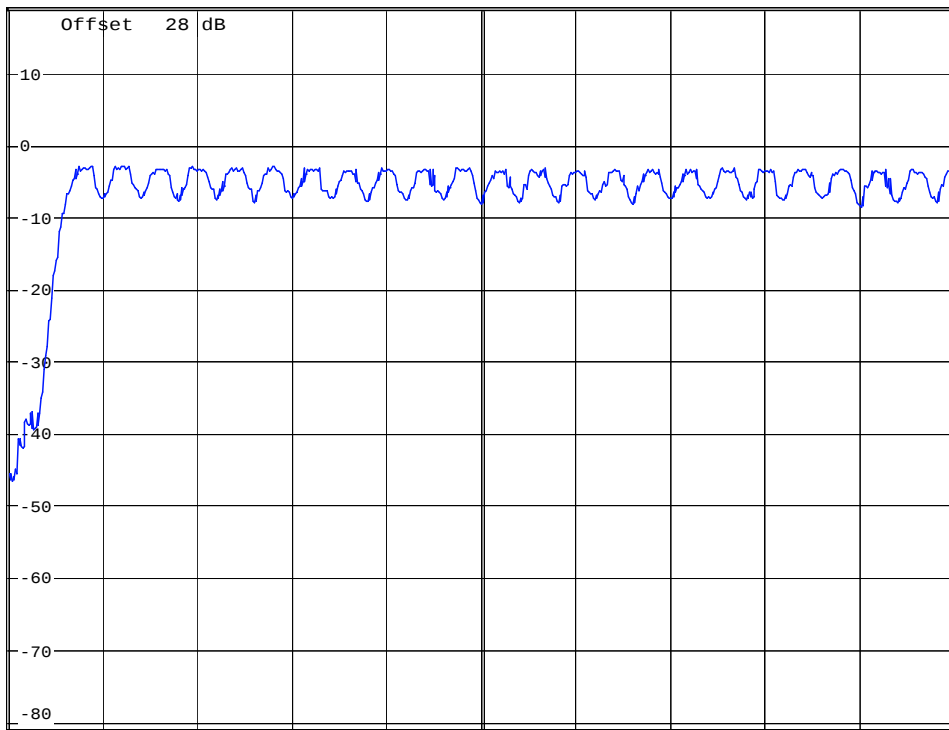
* VBW 300 kHz

SWT 2.5 ms

Ref 19 dBm

* Att 10 dB

Offset 28 dB

1 PK
MAXH

Start 2.4 GHz

2.5 MHz/

Stop 2.425 GHz

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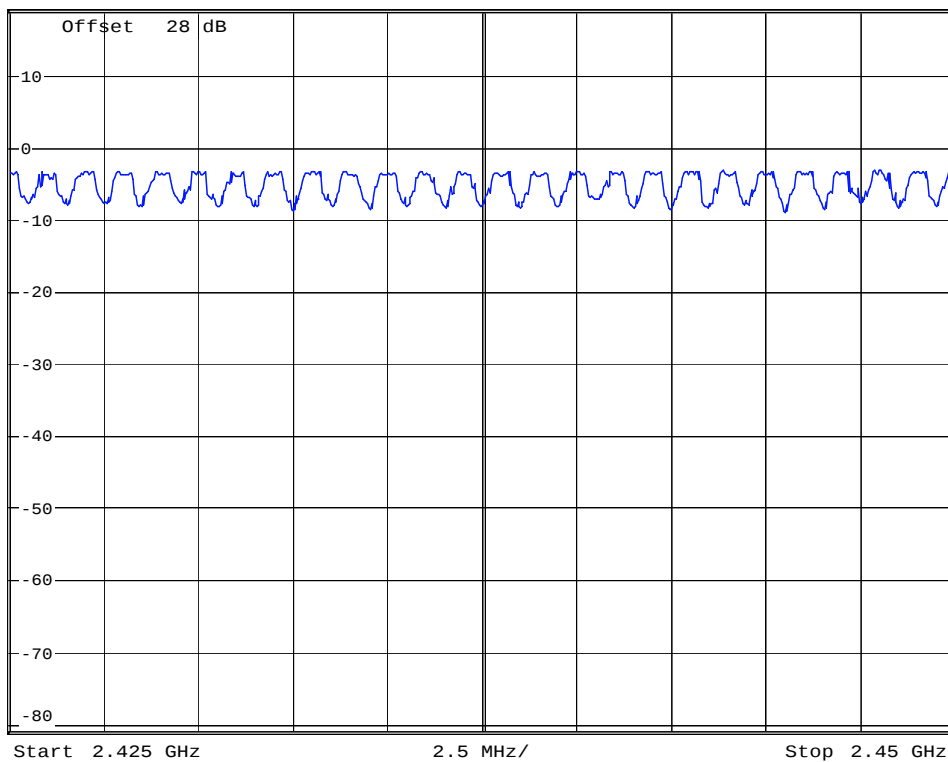
* RBW 300 kHz

* VBW 300 kHz

SWT 2.5 ms

Ref 19 dBm

* Att 10 dB



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* RBW 300 kHz

* VBW 300 kHz

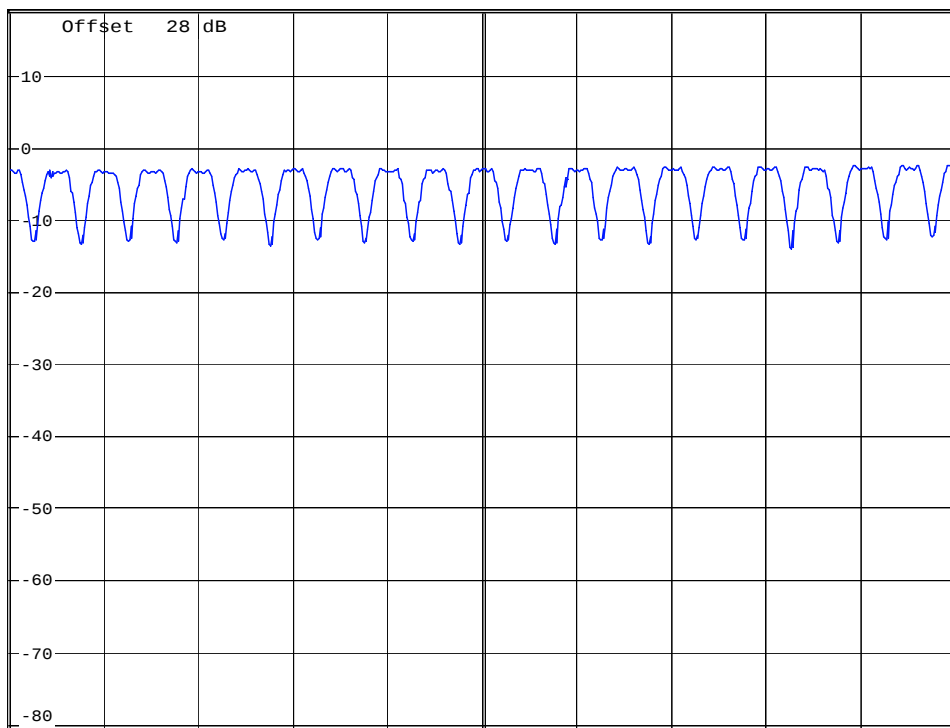
SWT 2.5 ms

Ref 19 dBm

* Att 10 dB

Offset 28 dB

1 PK
MAXH



Start 2.45 GHz

2 MHz/

Stop 2.47 GHz

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* RBW 300 kHz

* VBW 300 kHz

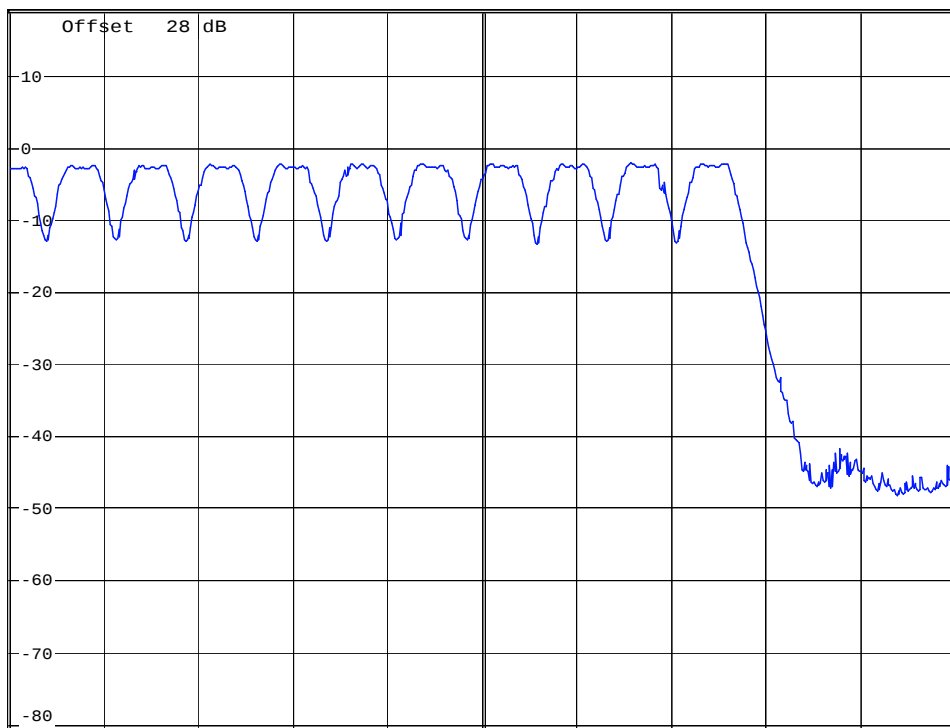
SWT 2.5 ms

Ref 19 dBm

* Att 10 dB

Offset 28 dB

1 PK
MAXH



Date: 15.APR.2008 10:54:53

6.5 TIME OF OCCUPANCY (DWELL TIME)**6.5.1 LIMIT SUB CLAUSE § 15.247 (a) (1) (i) (ii) (iii)**

FREQUENCY RANGE	AVERAGE TIME OF OCCUPANCY PER 31.6 SECONDS (LIMIT)
2400-2483.5	0.4 SECONDS

6.5.2 RESULTS:

T _{nom} (23)°C	V _{nom} VDC
-------------------------	----------------------

For Bluetooth devices:

The dwell time of 0.4 s within a 31.6 second period in data mode is independent from the packet type (packet length). The calculation for a 31.6 second period is as follows:

Dwell time = time slot length * hop rate / number of hopping channels * 31.6 s

Example for a DH1 packet (with a maximum length of one time slot)

Dwell time = 625 μs * 1600 1/s / 79 * 31.6 s = 0.4 s (in a 31.6 s period)

For multi-slot packet the hopping is reduced according to the length of the packet.

Example for a DH5 packet (with a maximum length of five time slots)

Dwell time = 5 * 625 μs * 1600 * 1/5 * 1/s / 79 * 31.6 s = 0.4 s (in a 31.6 s period)

This is the same for all BT devices and therefore all BT devices satisfy FCC requirement on time of occupancy (dwell time).

6.6 CONDUCTED SPURIOUS EMISSION**6.6.1 LIMIT SUB CLAUSE § 15.247 (d)**

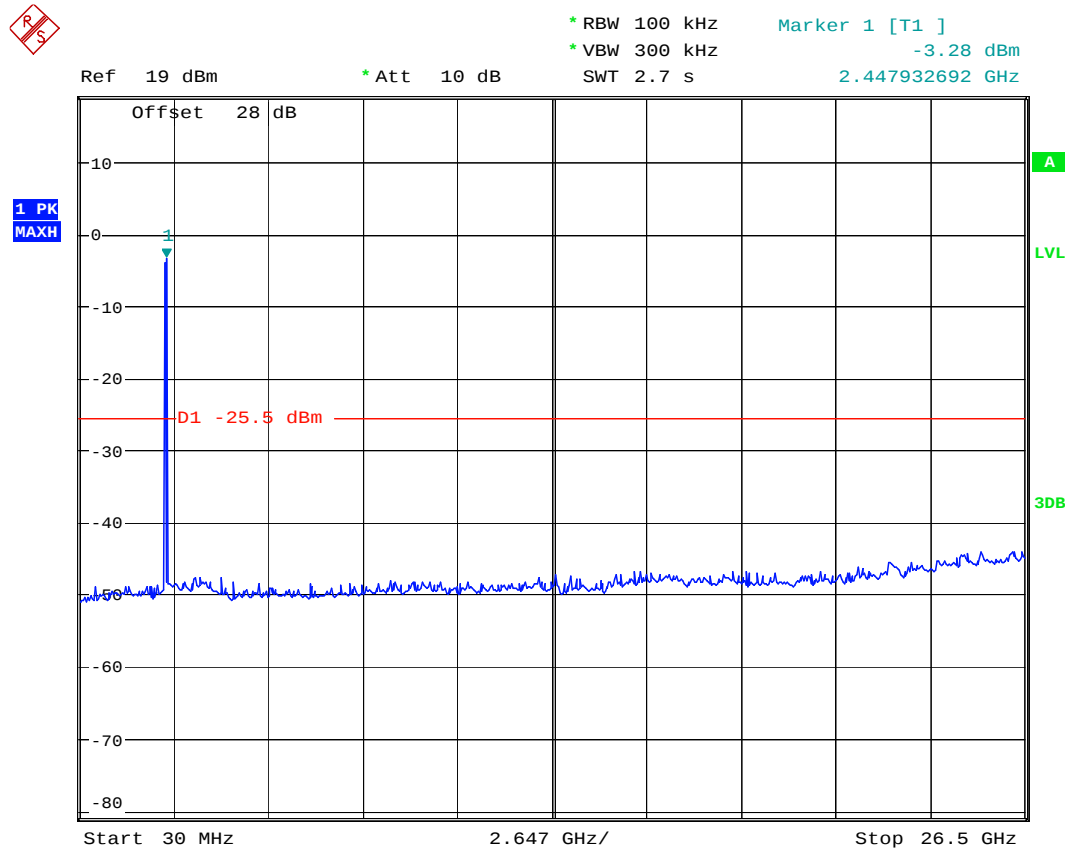
FREQUENCY RANGE	limit
30M-25GHz	-20dBc

6.6.2 RESULTS: Tnom(23)°C VnomVDC

All tests conducted in GFSK mode which has the highest output power and EIRP.

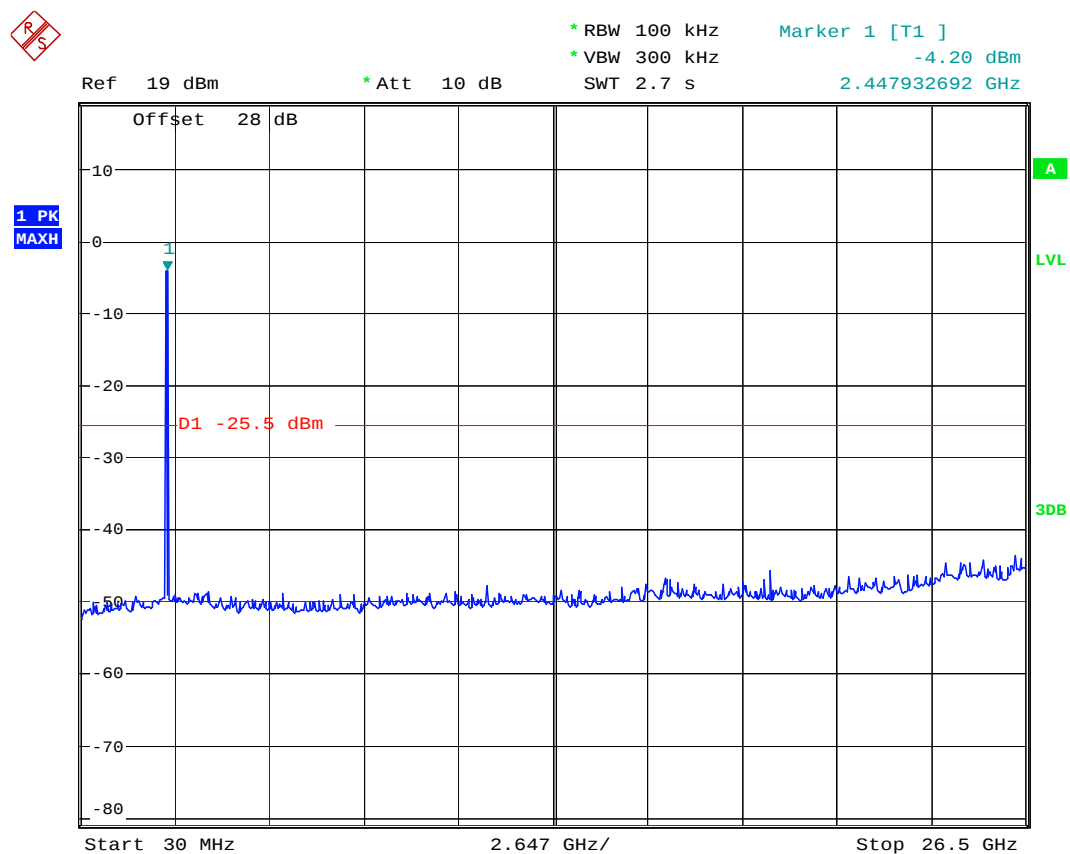
Verfict: PASS

Conducted Spurious Emission 2402MHz



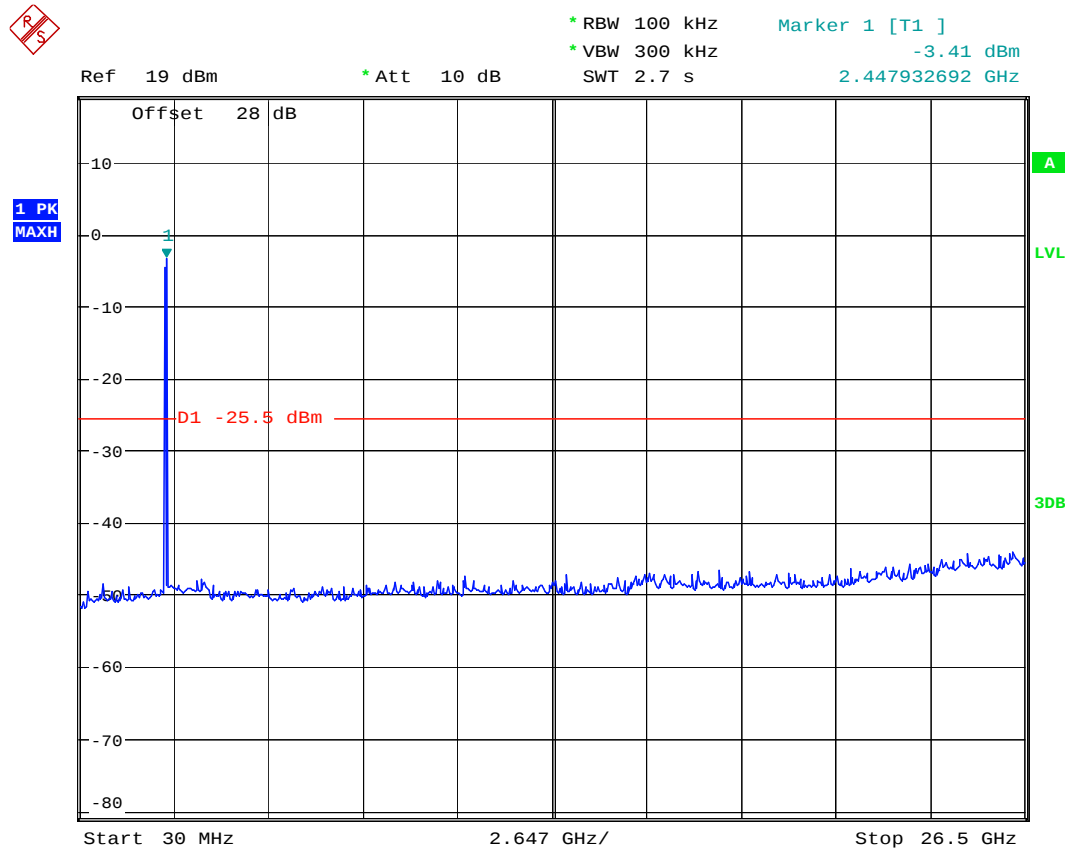
Date: 15.APR.2008 10:59:26

Conducted Spurious Emission 2441 MHz



Date: 15.APR.2008 11:00:01

Conducted Spurious Emission 2480MHz



Date: 15.APR.2008 11:01:06

6.7 AC POWER LINE CONDUCTED EMISSIONS § 15.107/207**6.7.1 LIMITS****Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)****Limit**

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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		

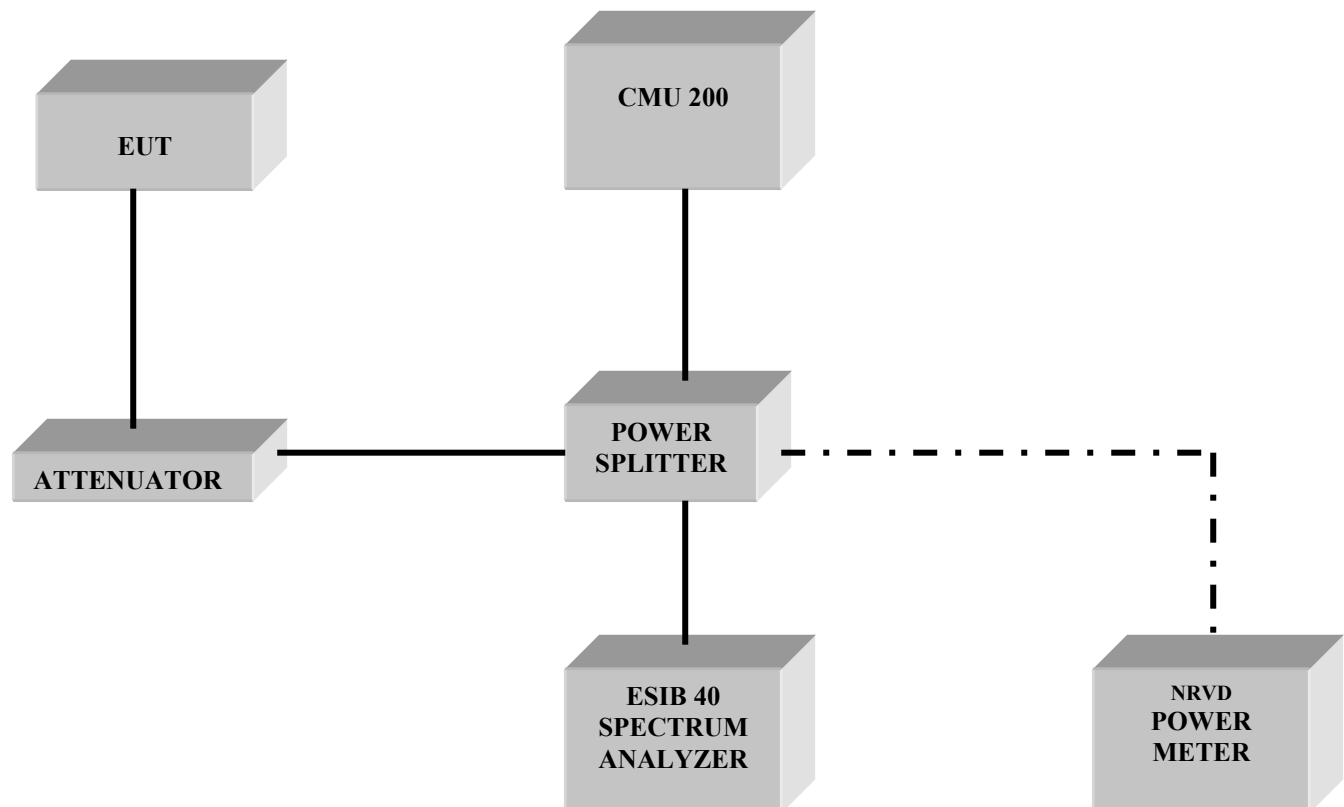
ANALYZER SETTINGS: RBW = 10KHz**VBW = 10KHz****6.7.2 Test Results:****Test not conducted. EUT is battery operated device.**

7 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal Due	Interval
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2008	1 year
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	100017	August 2008	1 year
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011	May 2008	1 year
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02	May 2008	1 year
05	Biconilog Antenna	3141	EMCO	0005-1186	June 2008	1 year
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	June 2008	1 year
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	June 2008	1 year
08	Power Splitter	11667B	Hewlett Packard	645348	n/a	n/a
09	Climatic Chamber	VT4004	Voltsch	G1115	May 2008	1 year
10	High Pass Filter	5HC2700	Trilithic Inc.	9926013	n/a	n/a
11	High Pass Filter	4HC1600	Trilithic Inc.	9922307	n/a	n/a
12	Pre-Amplifier	JS4-00102600	Miteq	00616	May 2008	1 year
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807	May 2008	1 year
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008	May 2008	1 year
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06	May 2008	1 year
16	LISN	ESH3-Z5	Rohde & Schwarz	836679/003	May 2008	1 year
17	Loop Antenna	6512	EMCO	00049838	July 2008	2 years

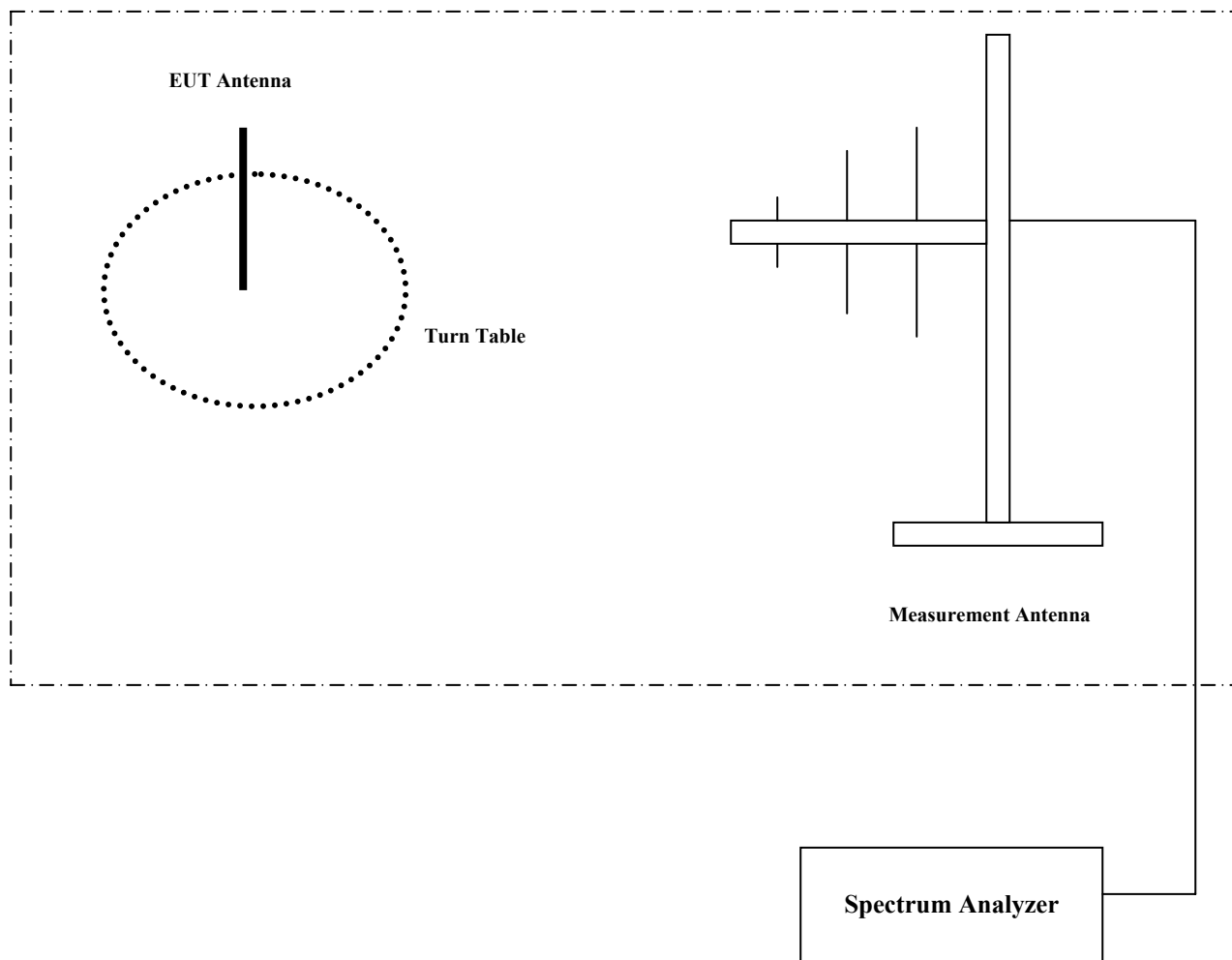
8 BLOCK DIAGRAMS

Conducted Testing



Radiated Testing

ANECHOIC CHAMBER



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9 Revision History

2008-4-16: First Issue.