



FCC Test Report

FCC Part 15.247 for FHSS systems

For the
Braemer, Inc.
Ambulatory Arrhythmia Monitoring System
Model Number: Fusion

FCC ID: HHMFUSION

TEST REPORT #: EMC_BRAEM_005_08001_15.247
DATE: 2009-03-15



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.

Company	Description	Model #
Braemer, Inc.	Ambulatory Arrhythmia Monitoring System	Fusion

This report is reviewed by:

Marc Douat

2009-03-15 EMC & Radio (EMC Project Engineer)

Date	Section	Name	Signature
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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:

Ahmad Safdari

2009-03-15 EMC & Radio (EMC Project Engineer)

Date	Section	Name	Signature
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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:	Ahmad Safdari
Date of test:	2009-02-26 to 2009-02-27

2.2 Identification of the Client

APPLICANT	
Applicant (Company Name)	Braemer, Inc.
Street Address	1285 Corporate Center Drive
City/Zip Code	Eagan 55121
Country	USA
Contact Person	Adam ford
Telephone	(651) 286-8620 x144
Fax	(651) 286-8630
e-mail	adam.ford@braemarinc.com

3 Equipment under Test (EUT)

3.1 Specification of the Equipment under Test

Marketing Name:	Fusion
Description:	Ambulatory Arrhythmia Monitoring System
Model No:	Fusion
Antenna Type:	Wire Antenna ¼ Wave Antenna
Type(s) of Modulation:	GFSK
Frequency Band(s) of Operation:	2400~2483.5MHz
Numbers of Channels:	79
Equipment Classification: (CLASS)	<input type="checkbox"/> FIXED <input type="checkbox"/> VEHICULAR <input checked="" type="checkbox"/> PORTABLE <input type="checkbox"/> MODULE
Equipment Classification: (POWER(AC MAINS))	<input type="checkbox"/> 110VAC (<i>GROUND</i>) <input type="checkbox"/> 110VAC (<i>NO GROUND</i>) <input type="checkbox"/> 12VDC <input checked="" type="checkbox"/> 6.5/8.2 VDC battery

3.2 Identification of the Equipment Under Test (EUT)

EUT #	TYPE	MANF.	MODEL	SERIAL #
1	EUT	Braemer, Inc.	Fusion	N/A

3.3 Identification of Accessory equipment

AE #	TYPE	MODEL
1	ECG Recording Leadwires	N/A
2	Battery	N/A



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. The maximization of portable equipment is conducted in accordance with ANSI C63.4.

All testing was performed on the product referred to in Section 3 as EUT. This test report contains only radiated testing results as per FCC15.247 for conduct report refer to report # W6M120703-7876-P-15.

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

4 Measurements (Radiated)**4.1 MAXIMUM PEAK OUTPUT POWER****4.1.1 Test Result:**

EIRP: GFSK

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} VDC	-0.90	-0.37	0.98
Measurement uncertainty		±0.5dBm		

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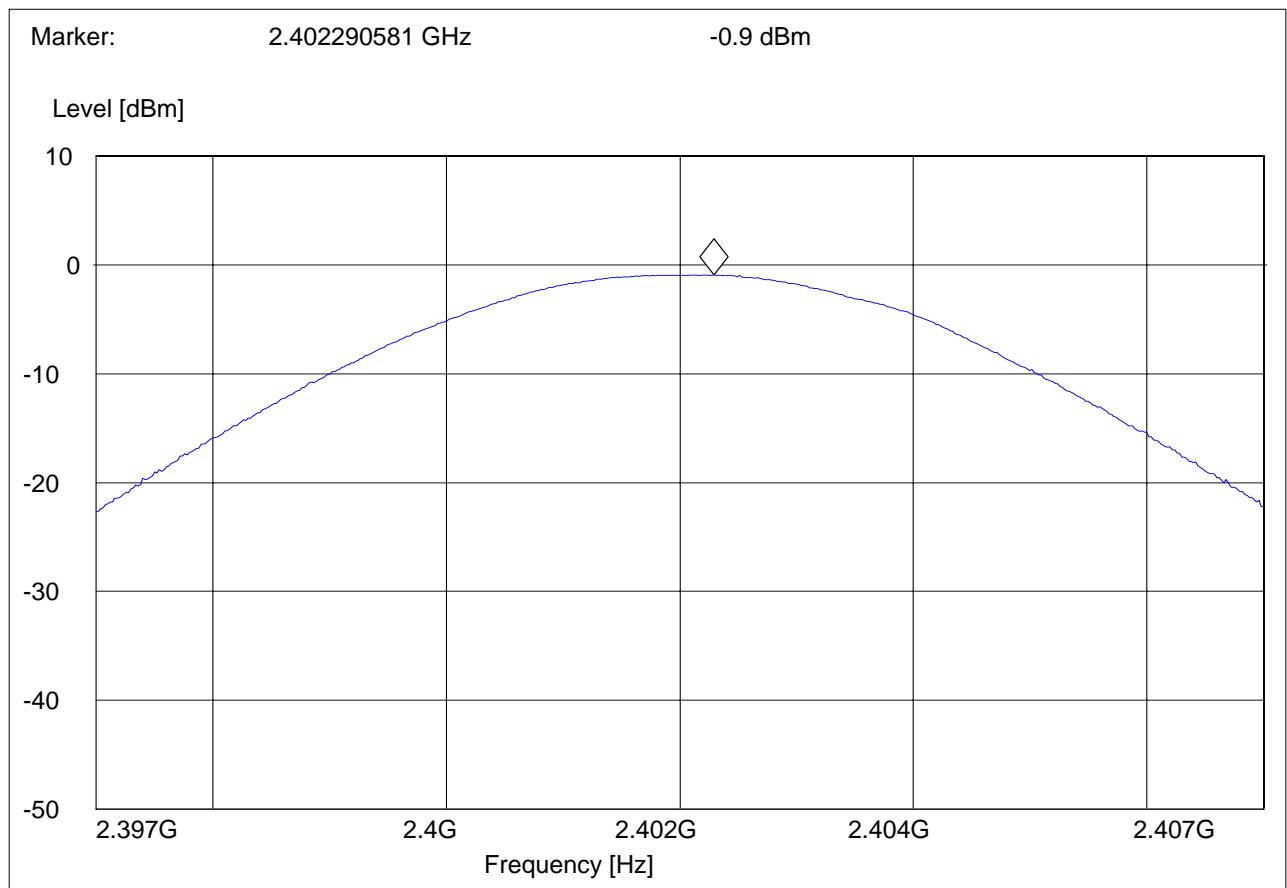
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EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

SWEEP TABLE: "EIRP BT low channel"

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			



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Date of Report : 2009-03-15

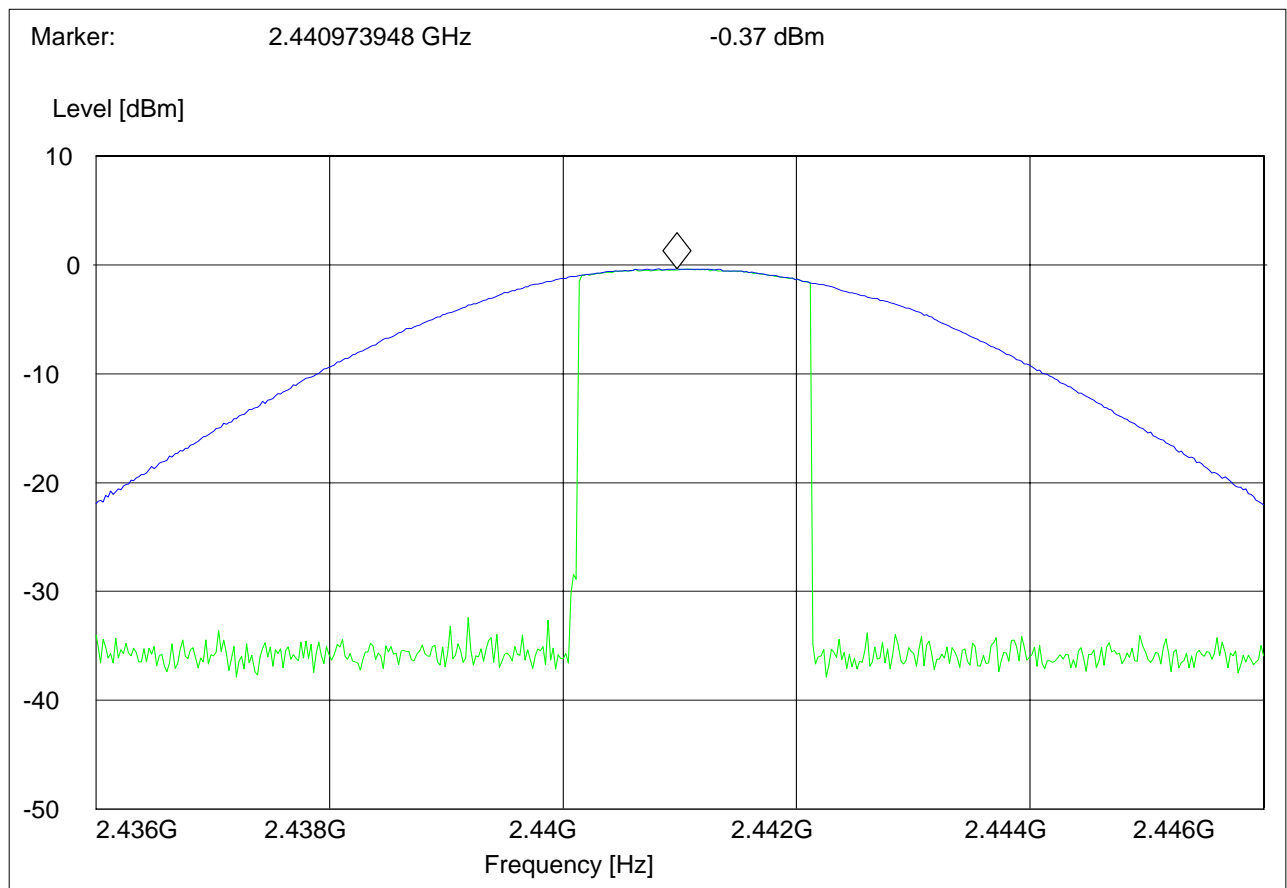
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EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.39; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

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			



Test Report #: EMC_BRAEM_005_08001_15.247

Date of Report : 2009-03-15

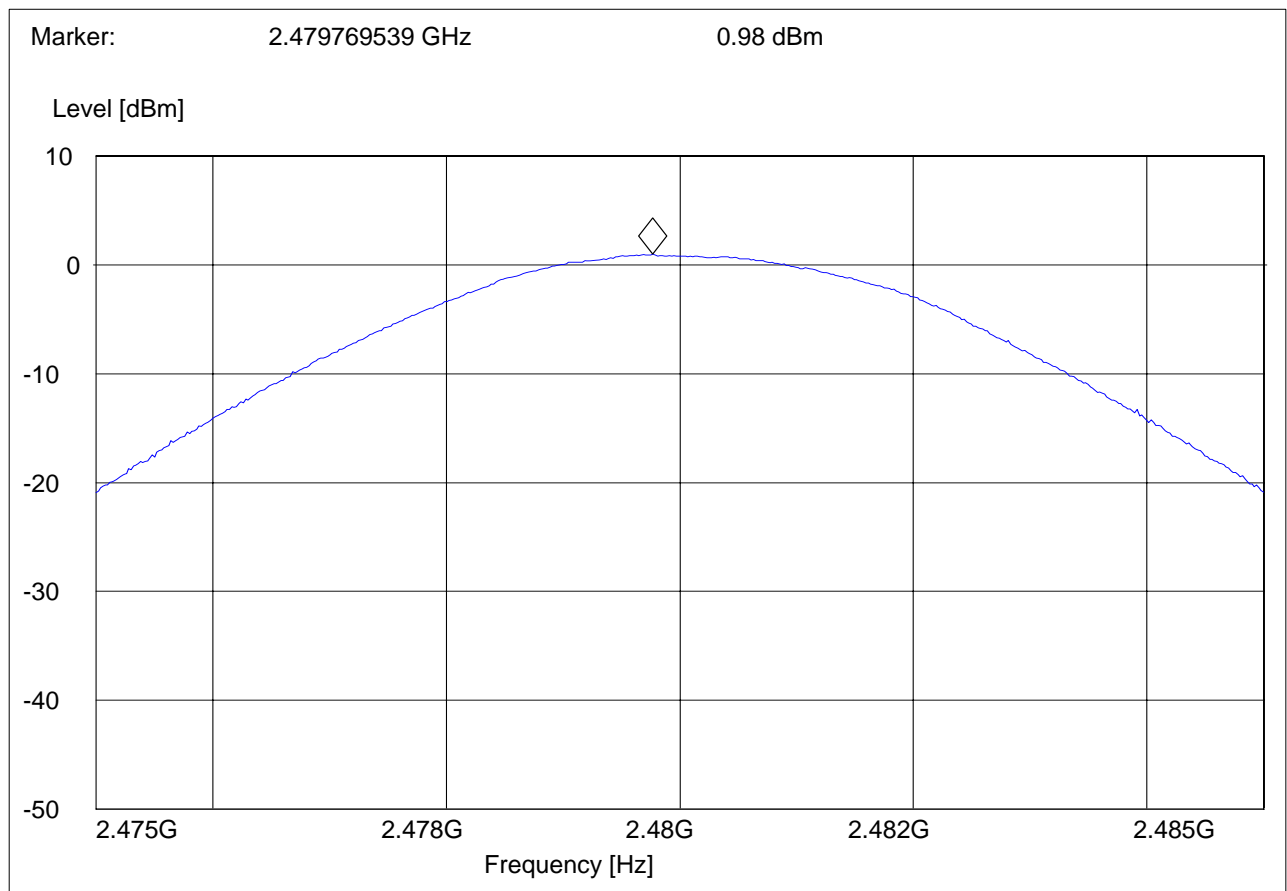
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EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

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			



4.2 RESTRICTED BAND EDGE COMPLIANCE RADIATED §15.247/15.205

4.2.1 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

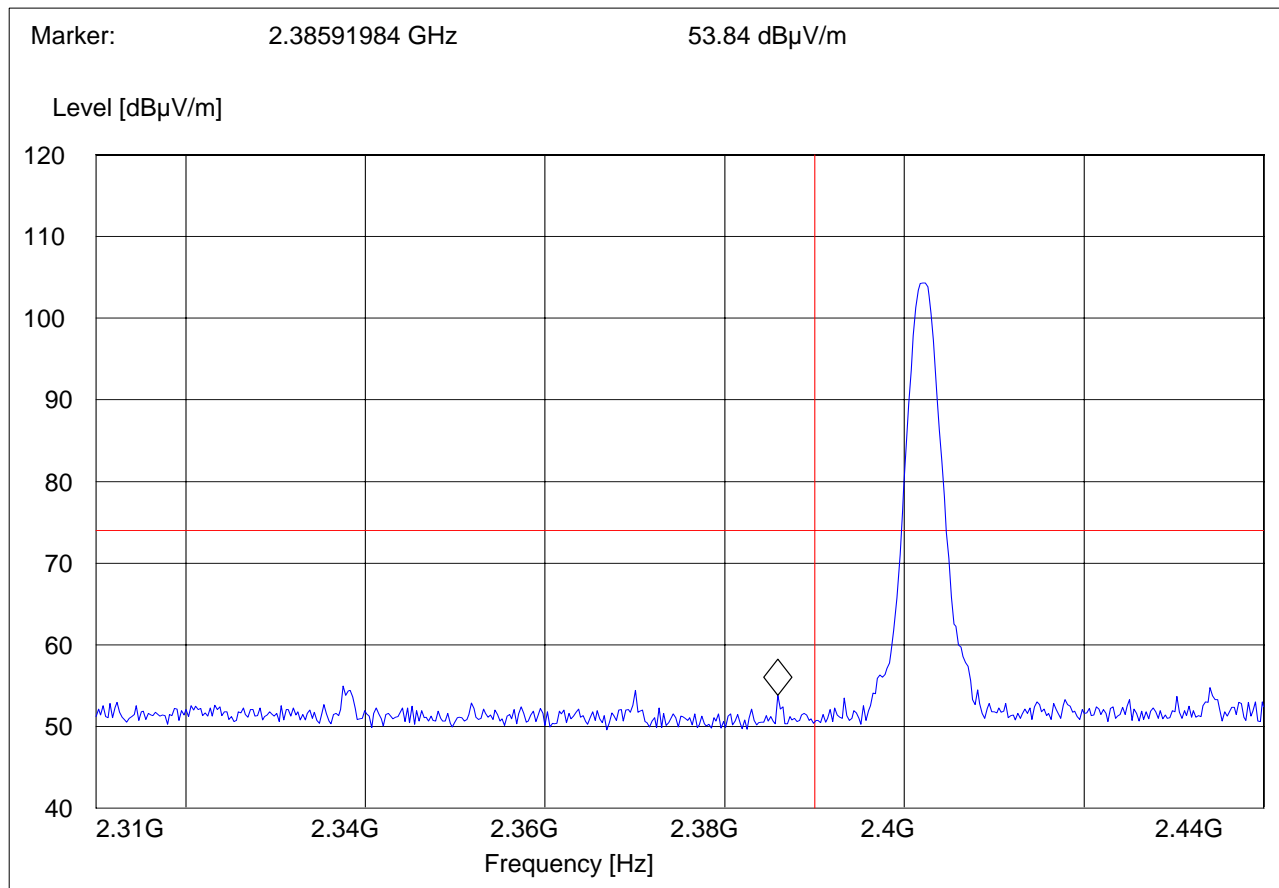
*AVG. LIMIT= 54dBuV/m

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

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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



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(2402MHz) LOWER BAND EDGE AVERAGE -GFSK MODULATION

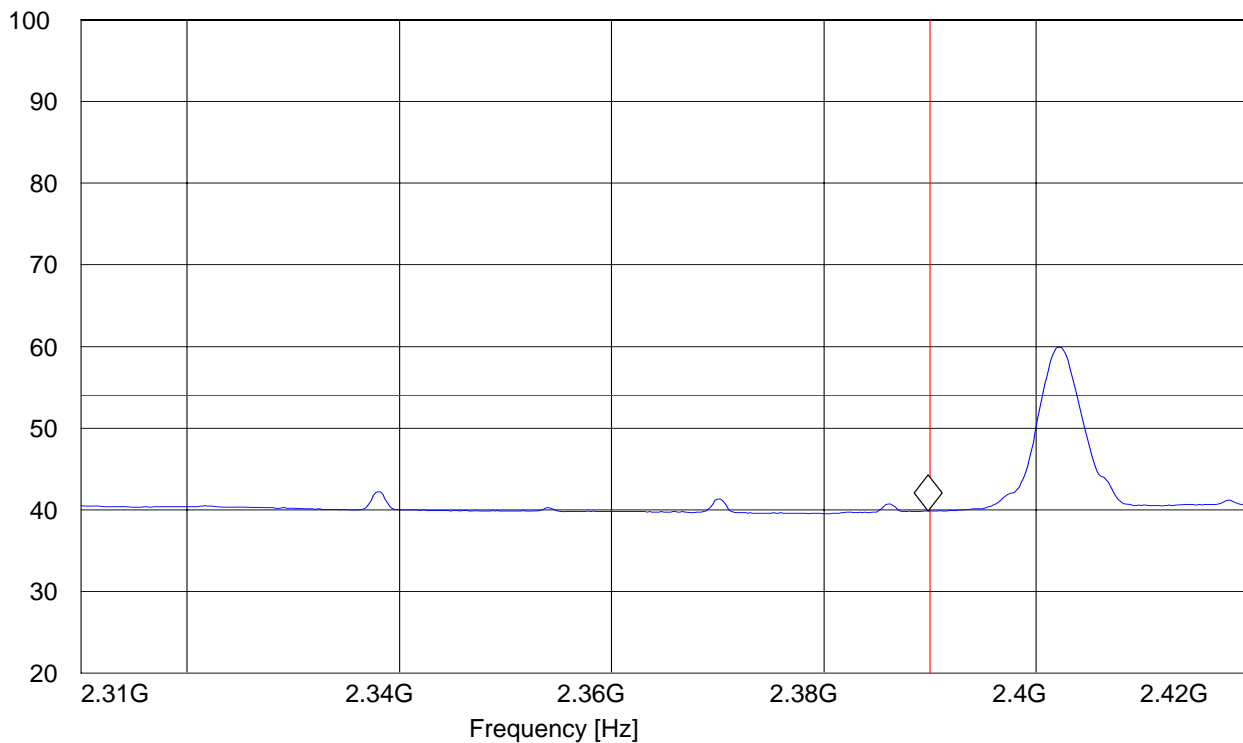
EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

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 39.85 dBμV/m

Level [dBμV/m]



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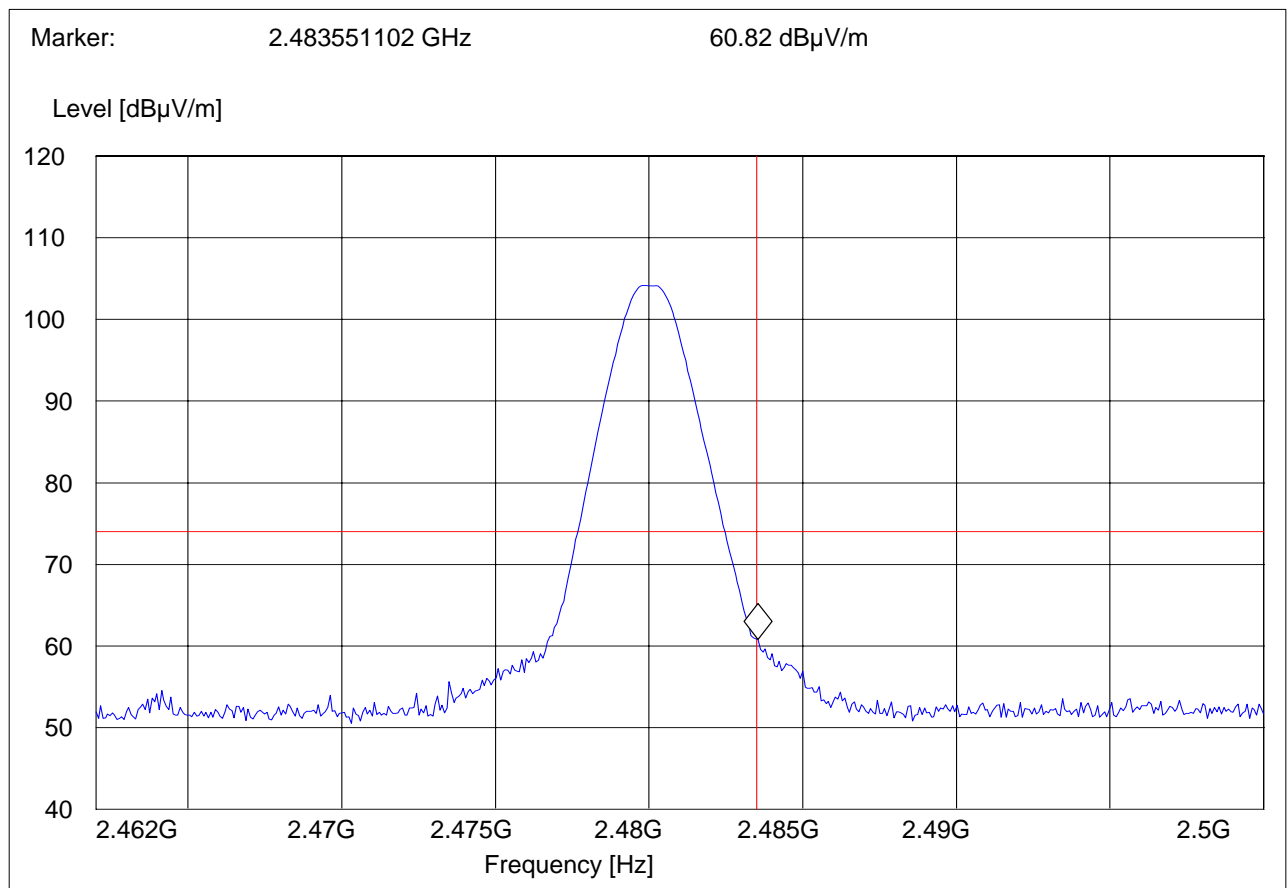


(2480MHz) HIGHER BAND EDGE PEAK -GFSK MODULATION

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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



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(2480MHz) HIGHER BAND EDGE AVERAGE-GFSK MODULATION

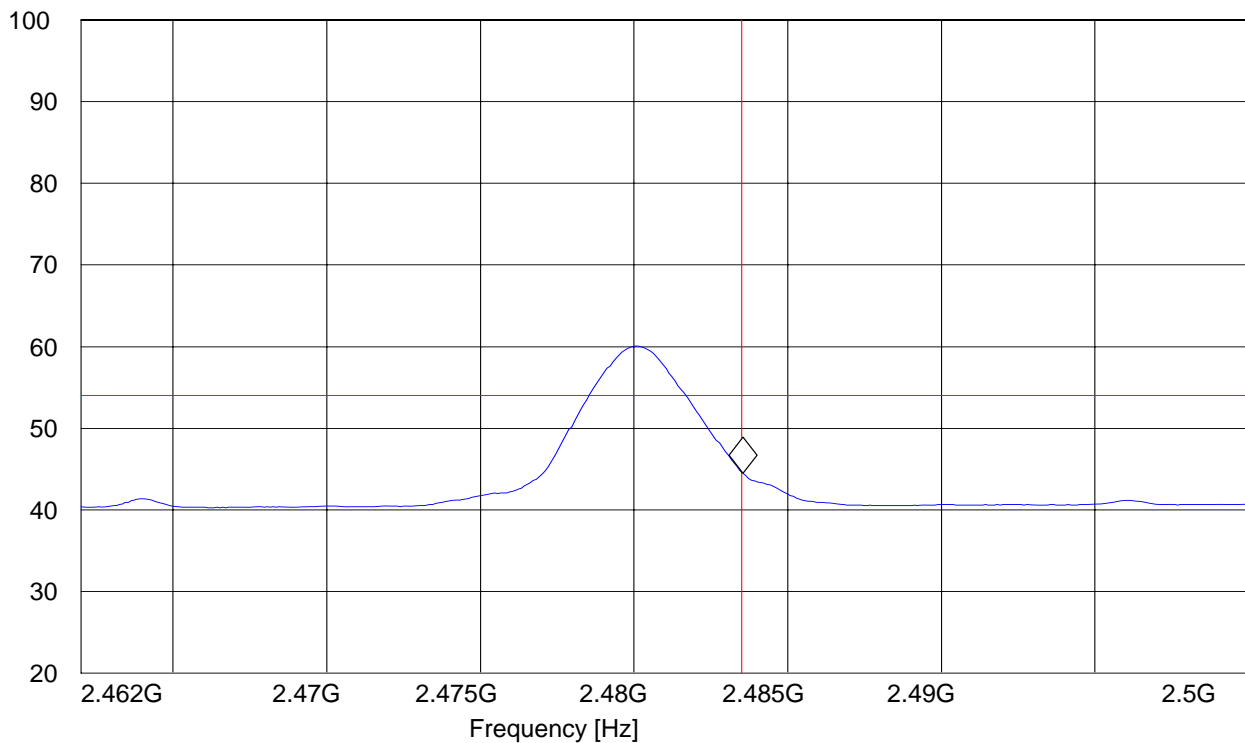
EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

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 44.46 dBμV/m

Level [dBμV/m]



TRANSMITTER SPURIOUS EMISSIONS RADIATED § 15.247/15.205/15.209

4.2.3 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

4.2.4 RESULTS

30MHz – 1GHz

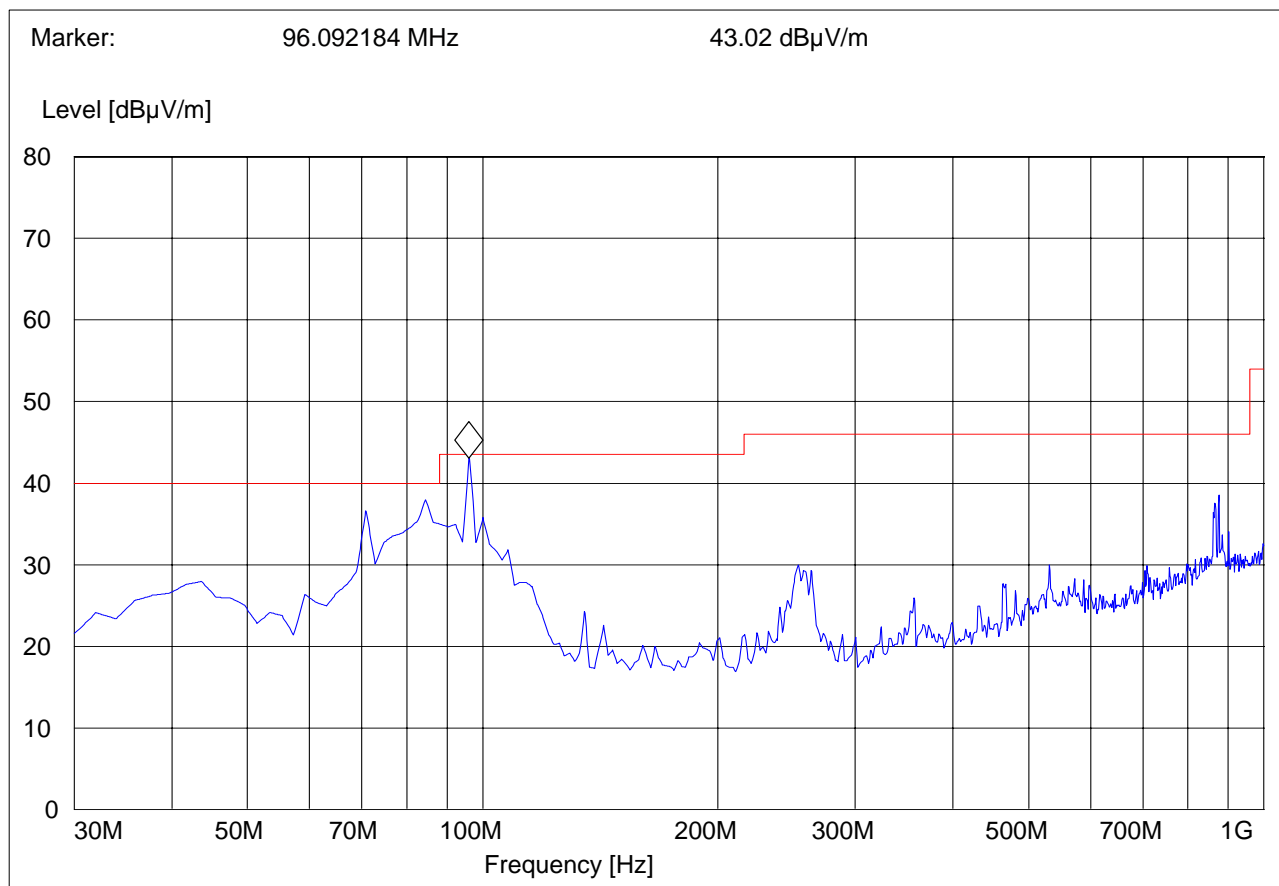
Antenna: vertical

EUT: 04GU10b / C01
Customer:: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

QuasiPeak @ 96.092184 MHz is 39.76 dBuV/m

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



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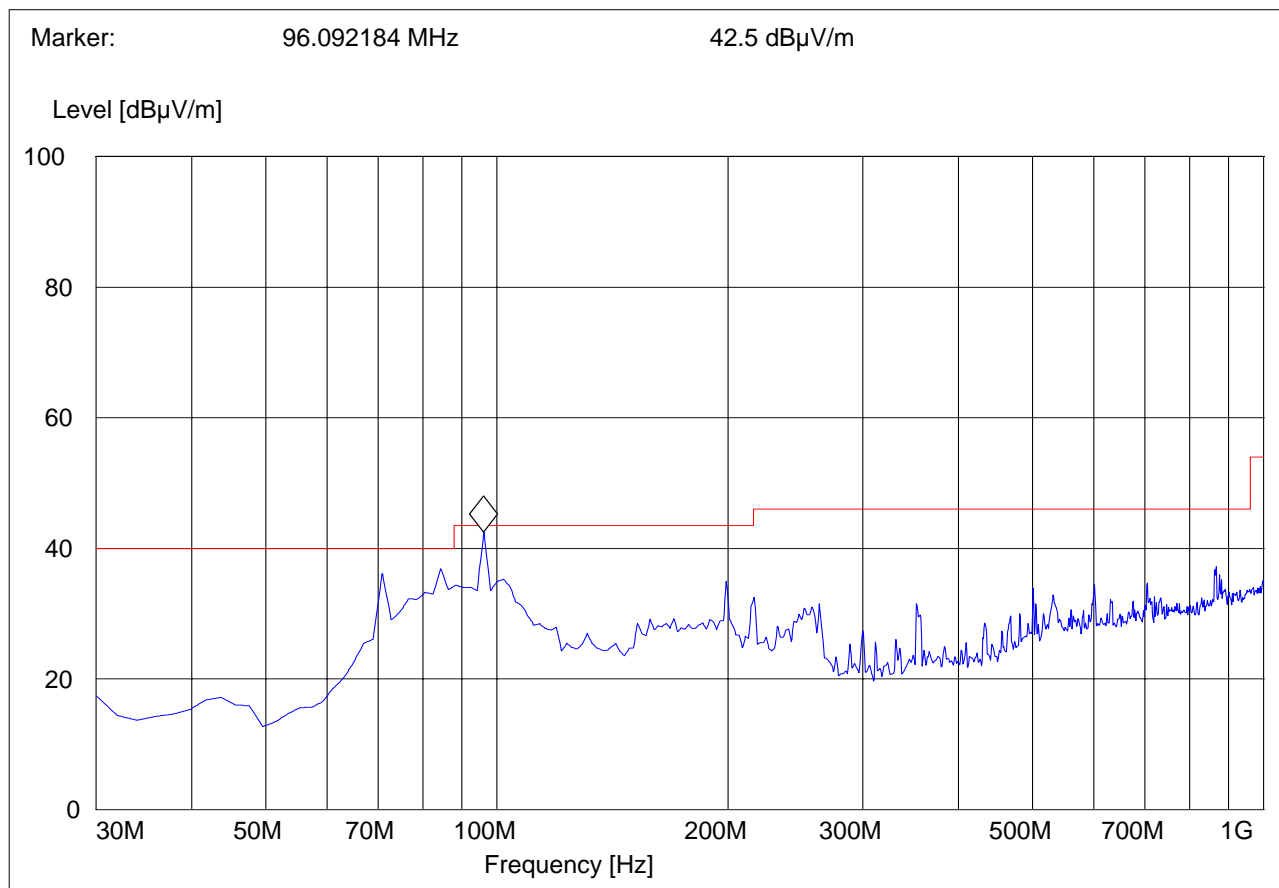
30MHz – 1GHz

Antenna: horizontal

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: H
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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

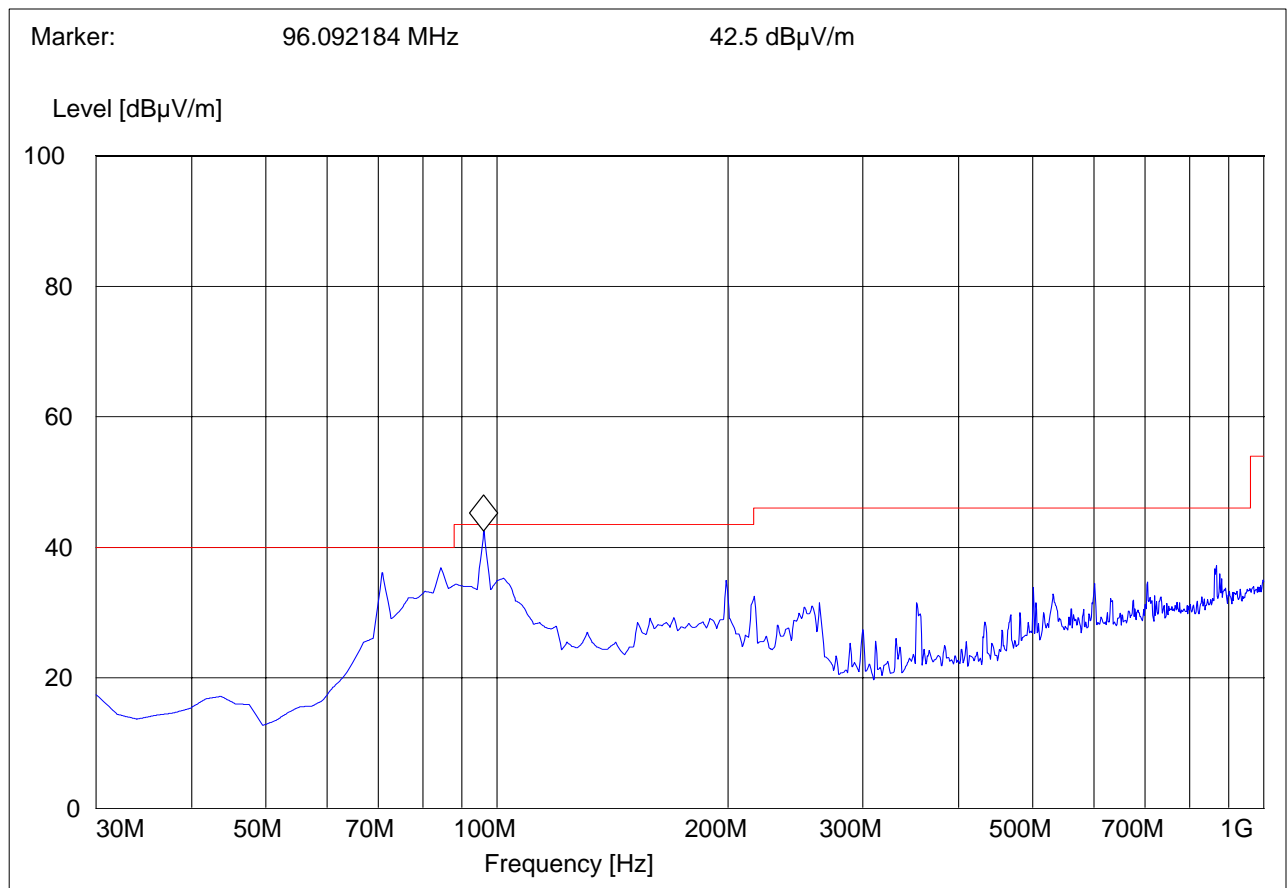


30MHz – 1GHz**Antenna: horizontal**

EUT: 04GU10b / C01
Customer:: Braemar
Test Mode: BT CH.39; GFSK
ANT Orientation: H
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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



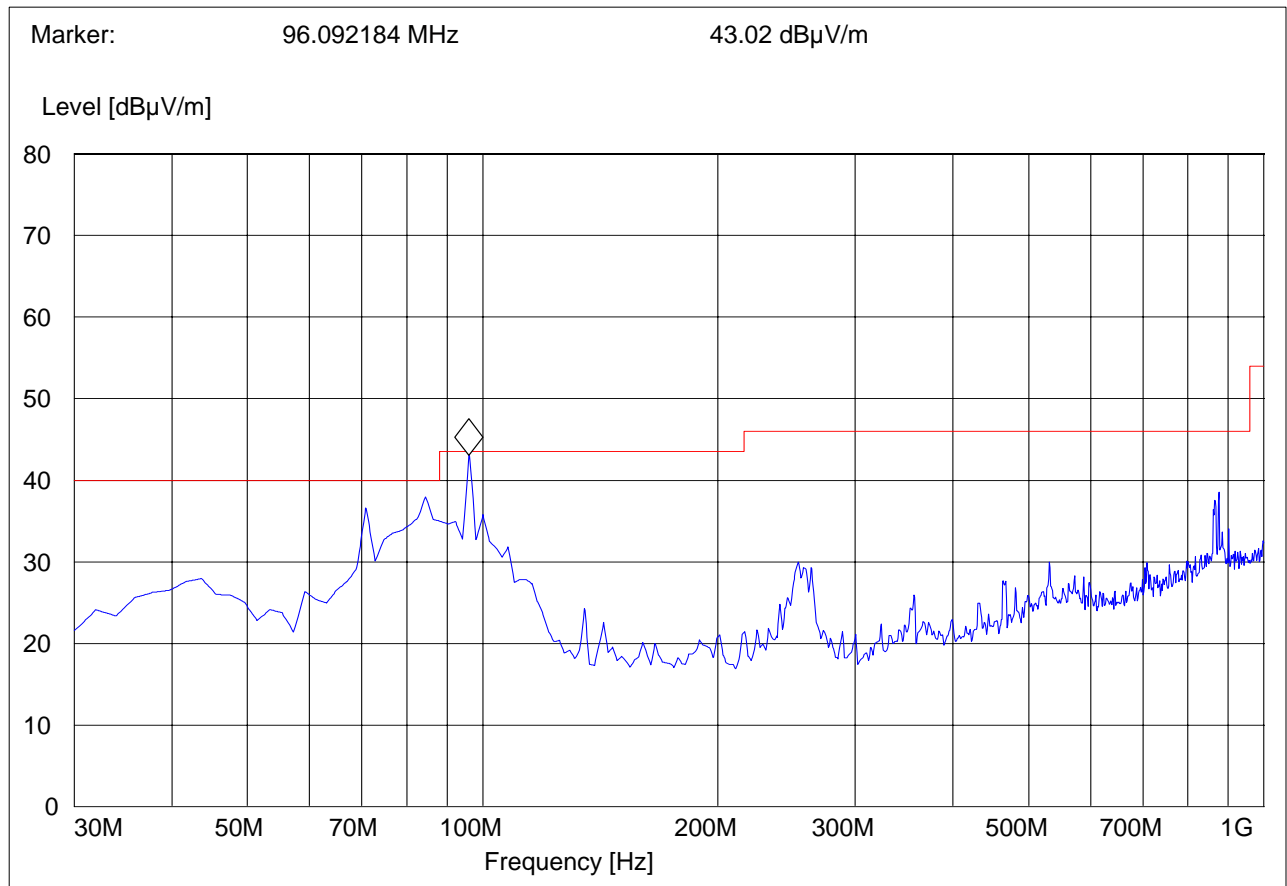
30MHz – 1GHz
Antenna: vertical

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.39; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

QuasiPeak @ 96.092184 MHz is 39.76 dBuV/m

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



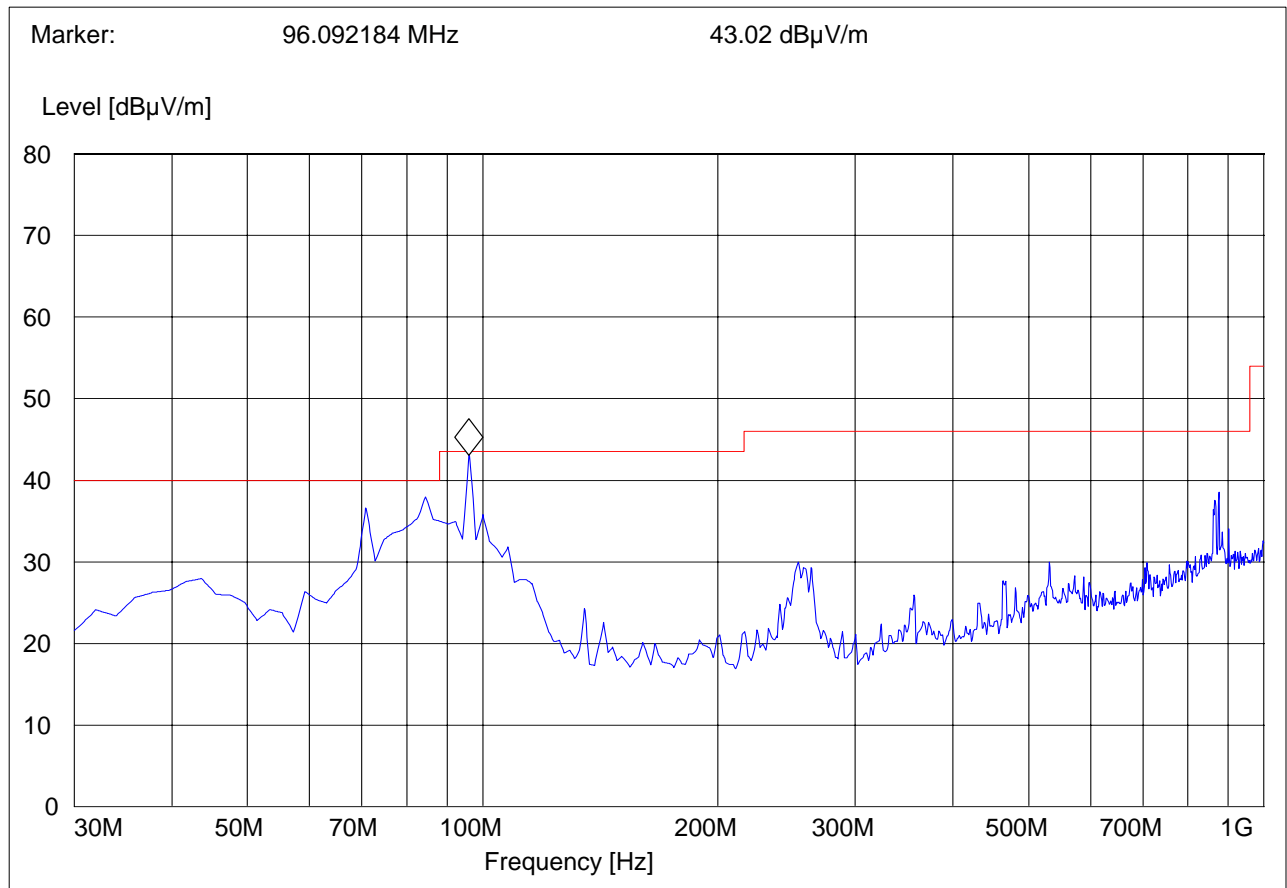
30MHz – 1GHz
Antenna: vertical

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

QuasiPeak @ 96.092184 MHz is 39.76 dBuV/m

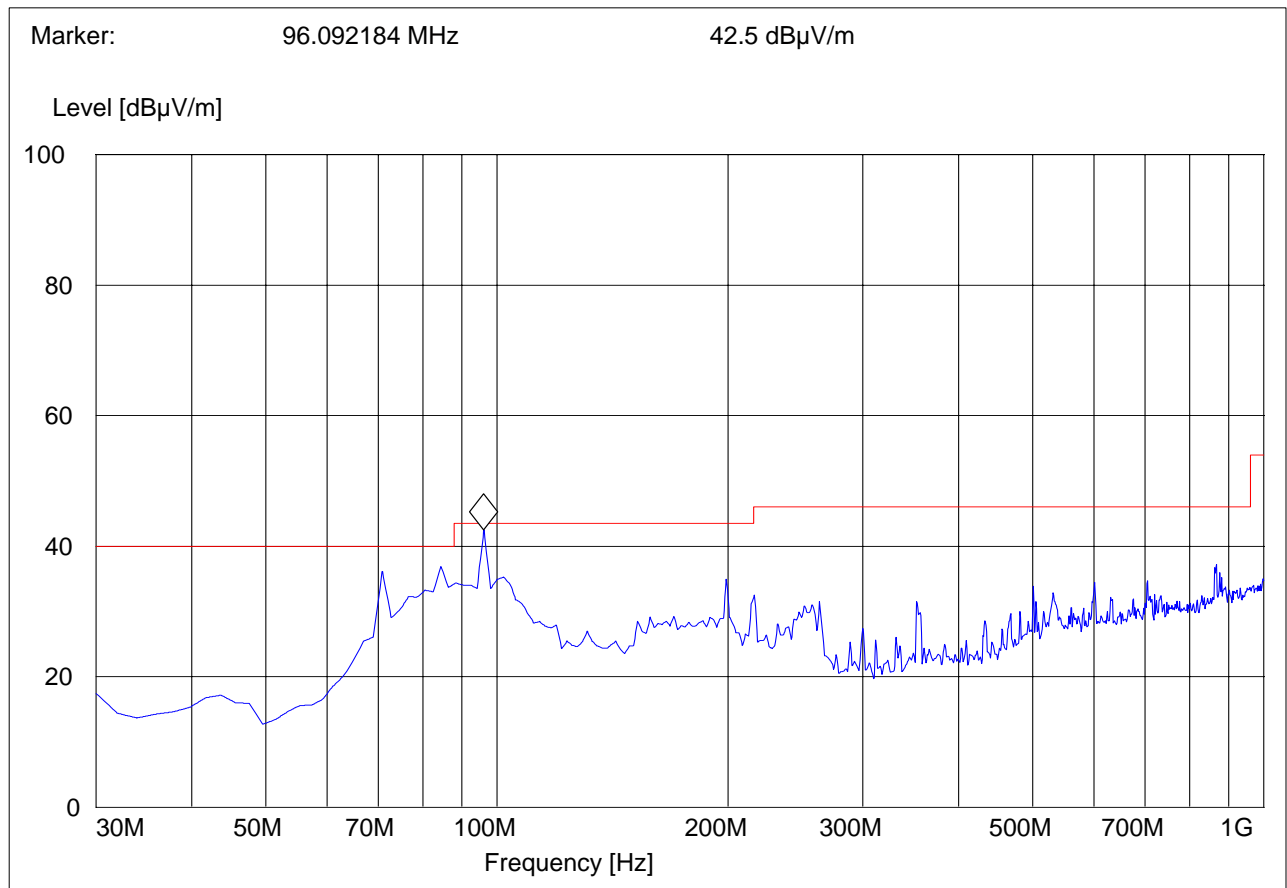
SWEEP TABLE: "FCC15.247_30M-1G_Ver"

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



30MHz – 1GHz**Antenna: horizontal**

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: H
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal Battery
Comments:

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

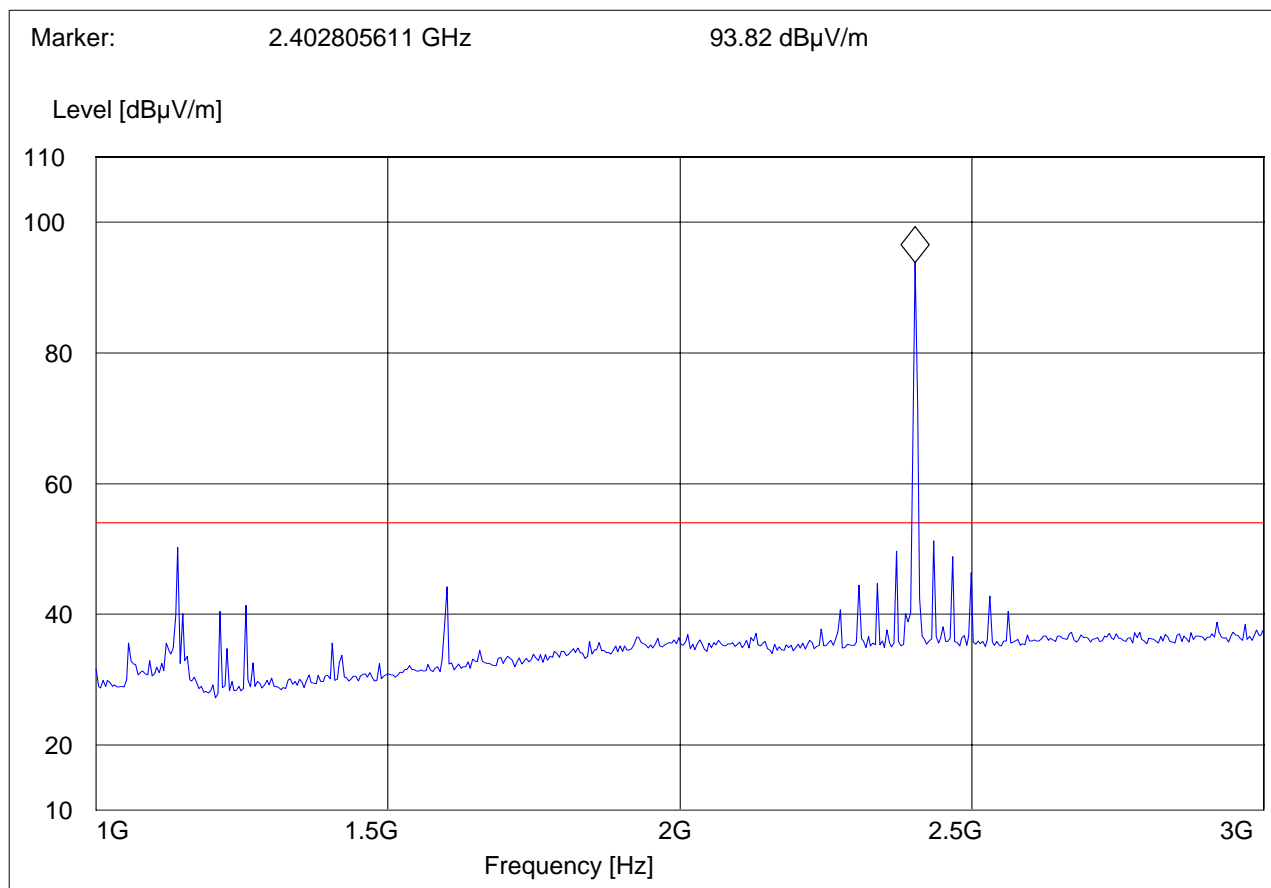
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

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

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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

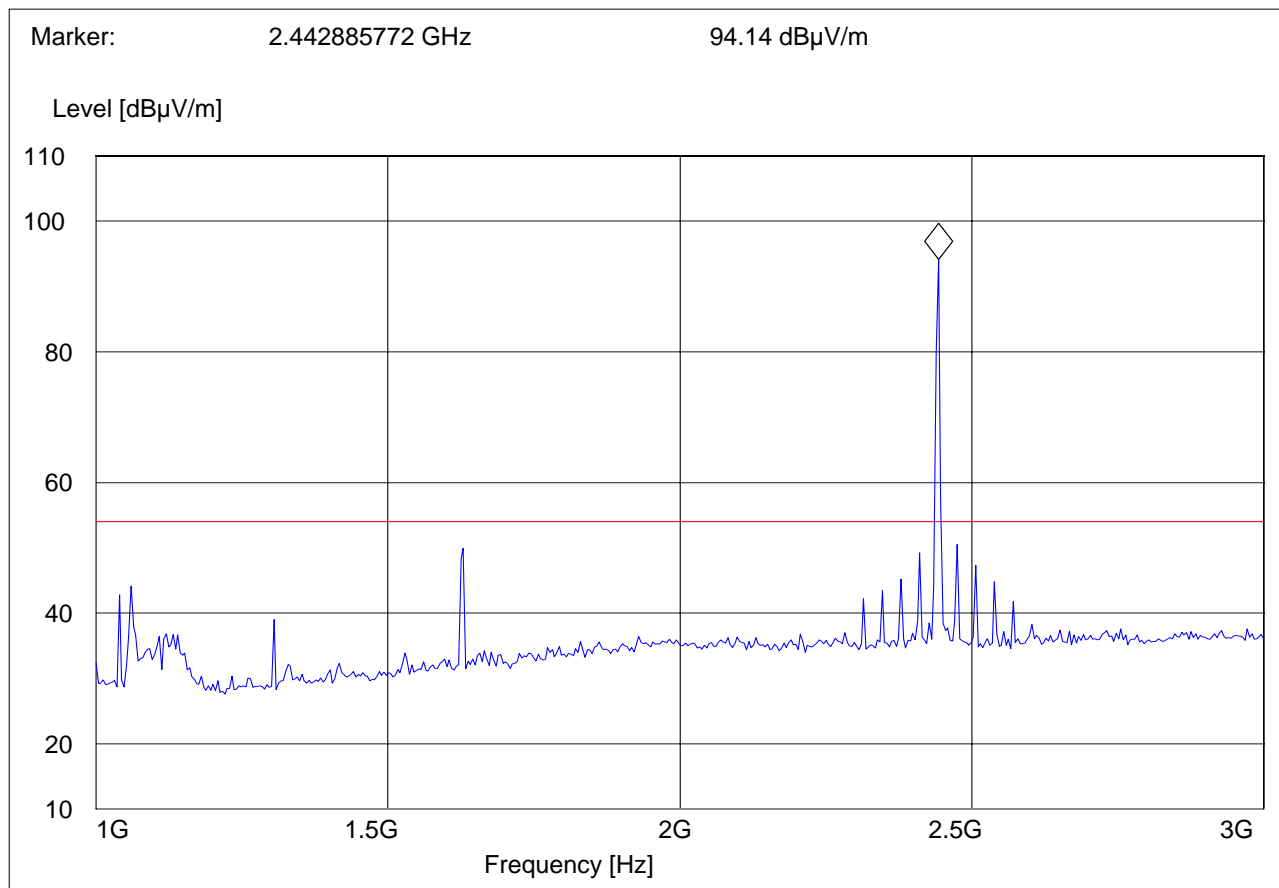


1-3GHz (2441MHz)**Note: The peaks above the limit line is the carrier freq.****Note: Peak Reading vs. Average limit**

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.39; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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

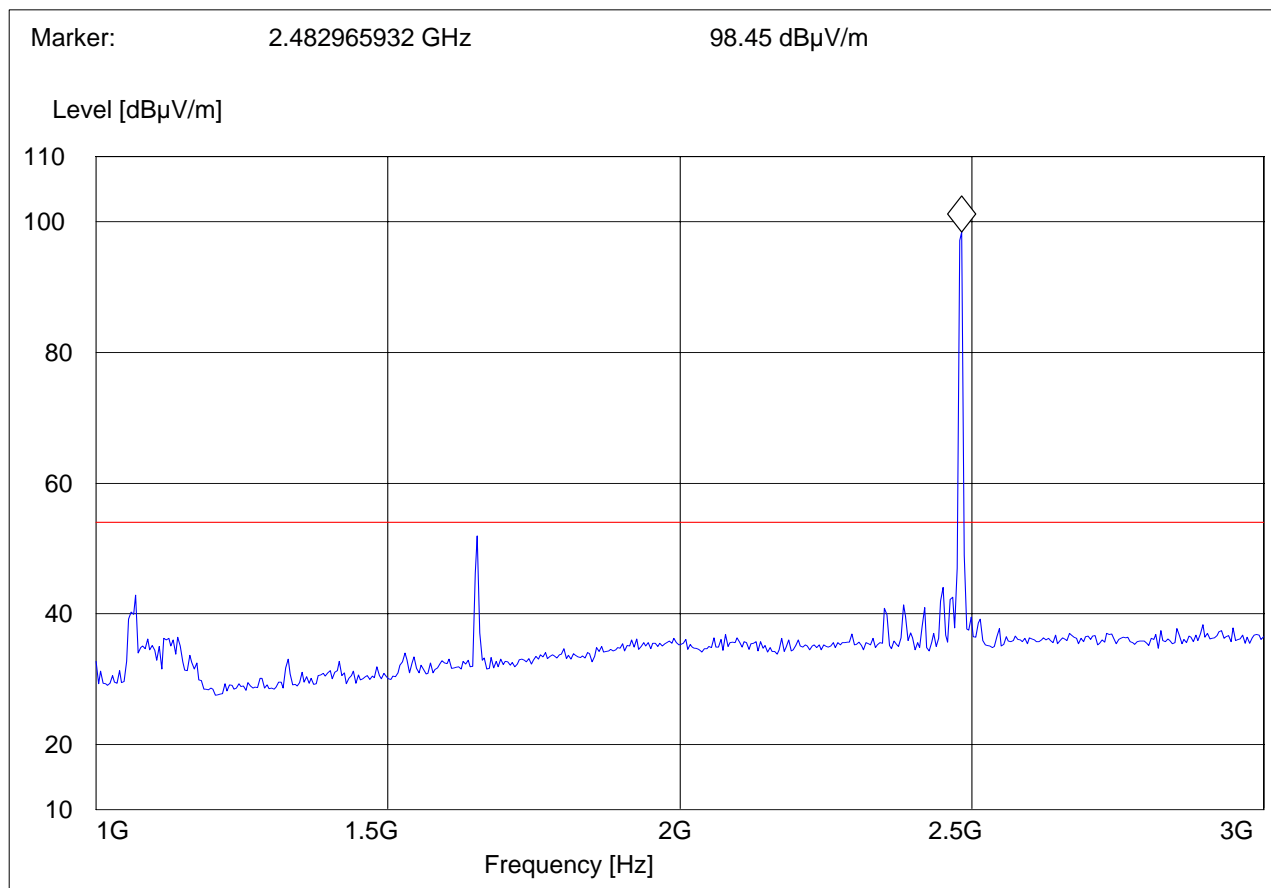


1-3GHz (2480MHz)**Note: The peaks above the limit line is the carrier freq.****Note: Peak Reading vs. Average limit**

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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



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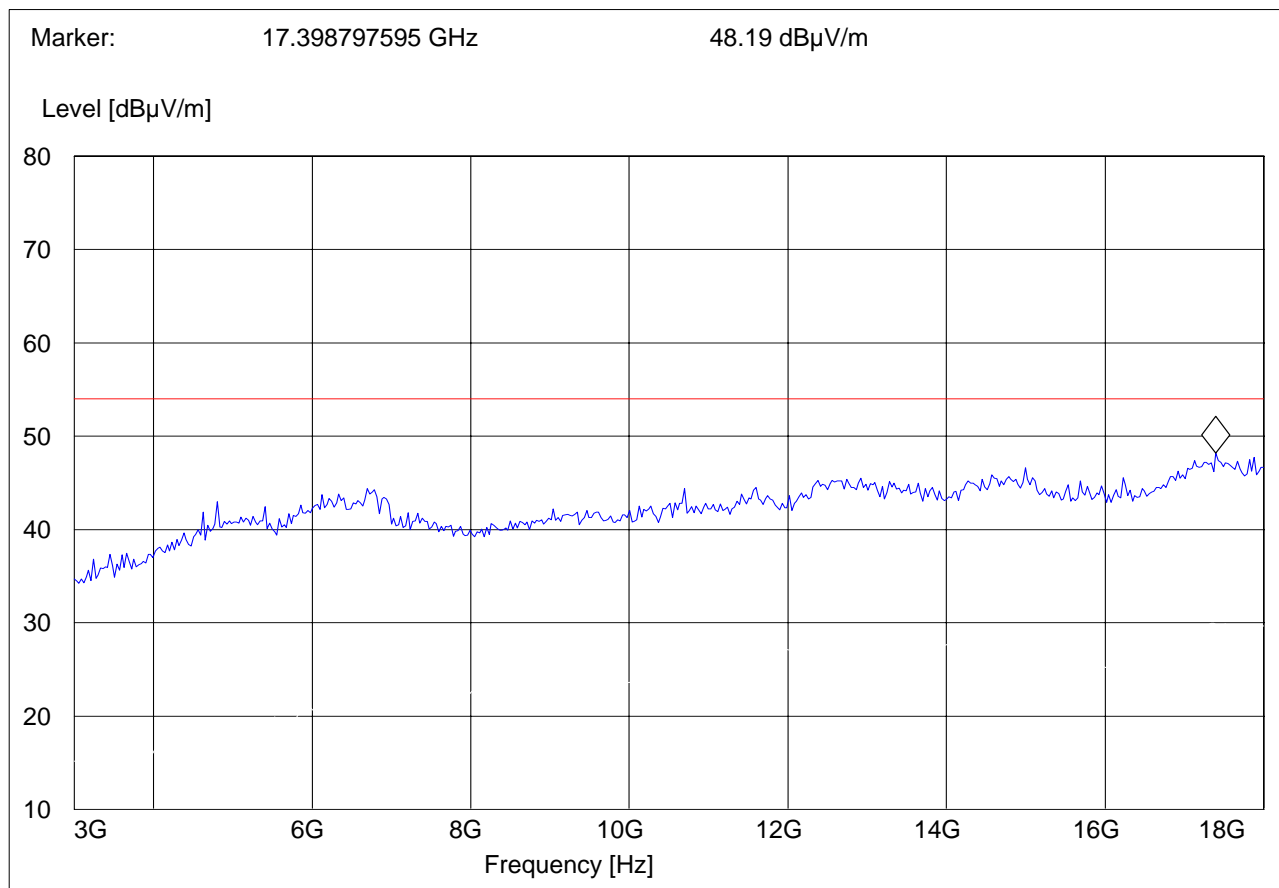
3-18GHz (2402MHz)

Note: Peak Reading vs. Average limit

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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



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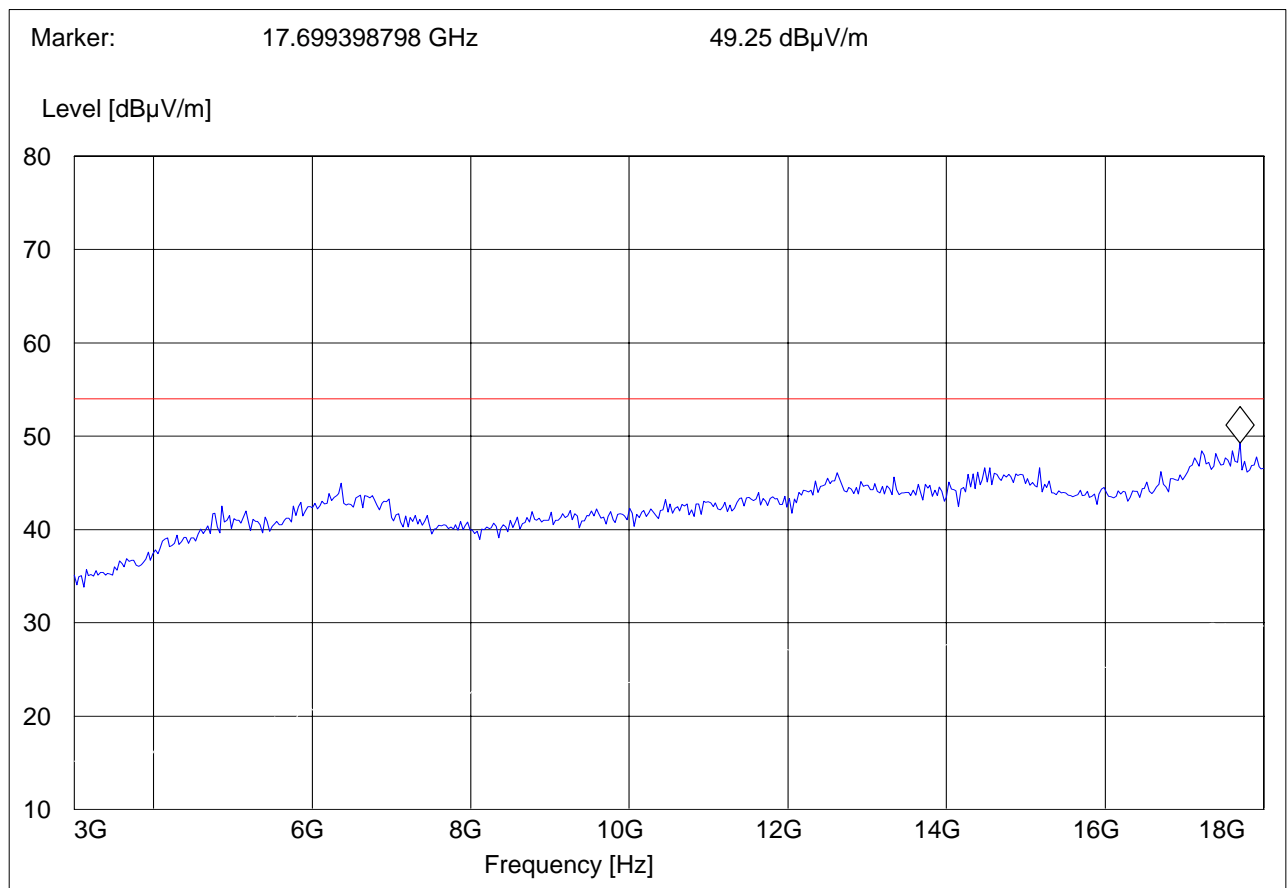
3-18GHz (2441MHz)

Note: Peak Reading vs. Average limit

EUT: 04GU10b / C01
Customer:: Braemar
Test Mode: BT CH.39; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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



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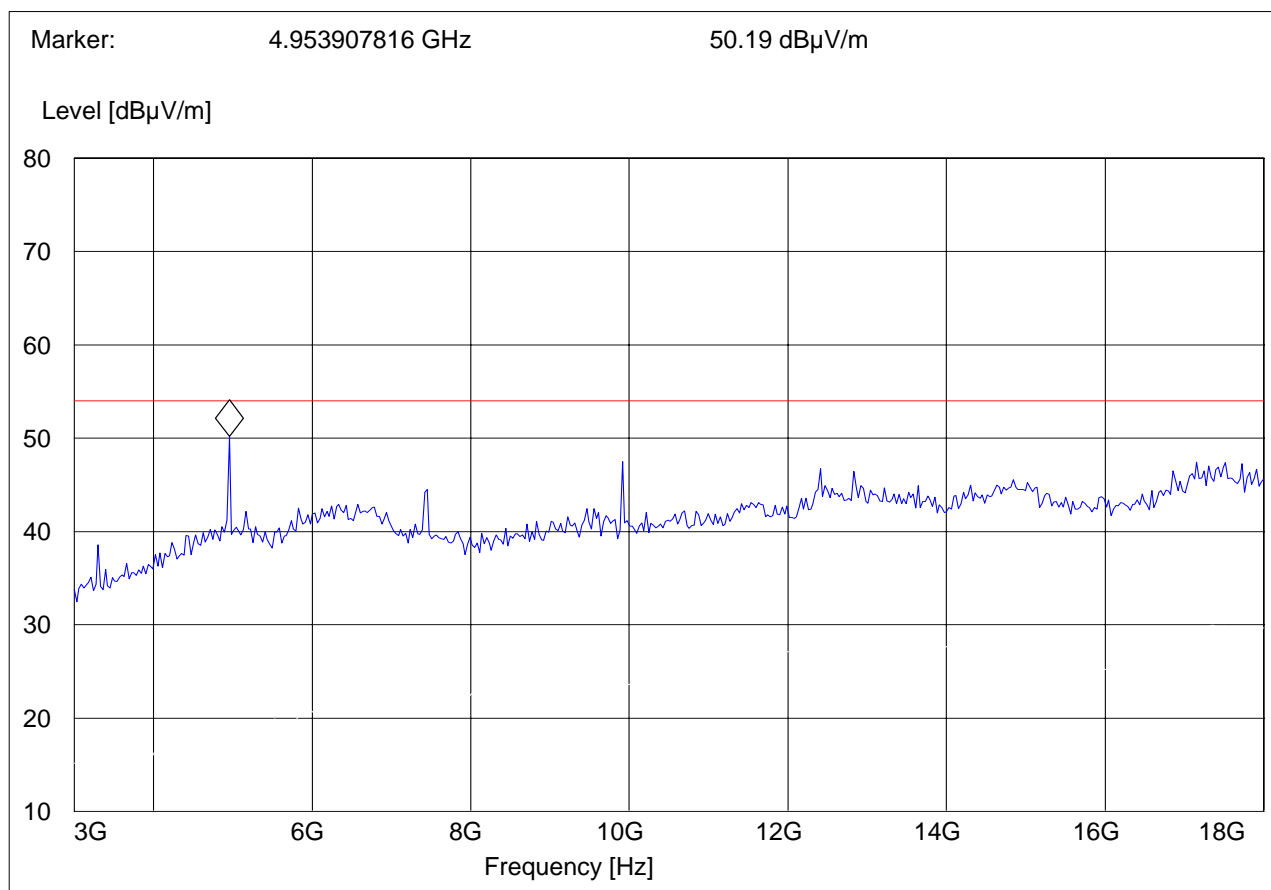
3-18GHz (2480MHz)

Note: Peak Reading vs. Average limit

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.78; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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

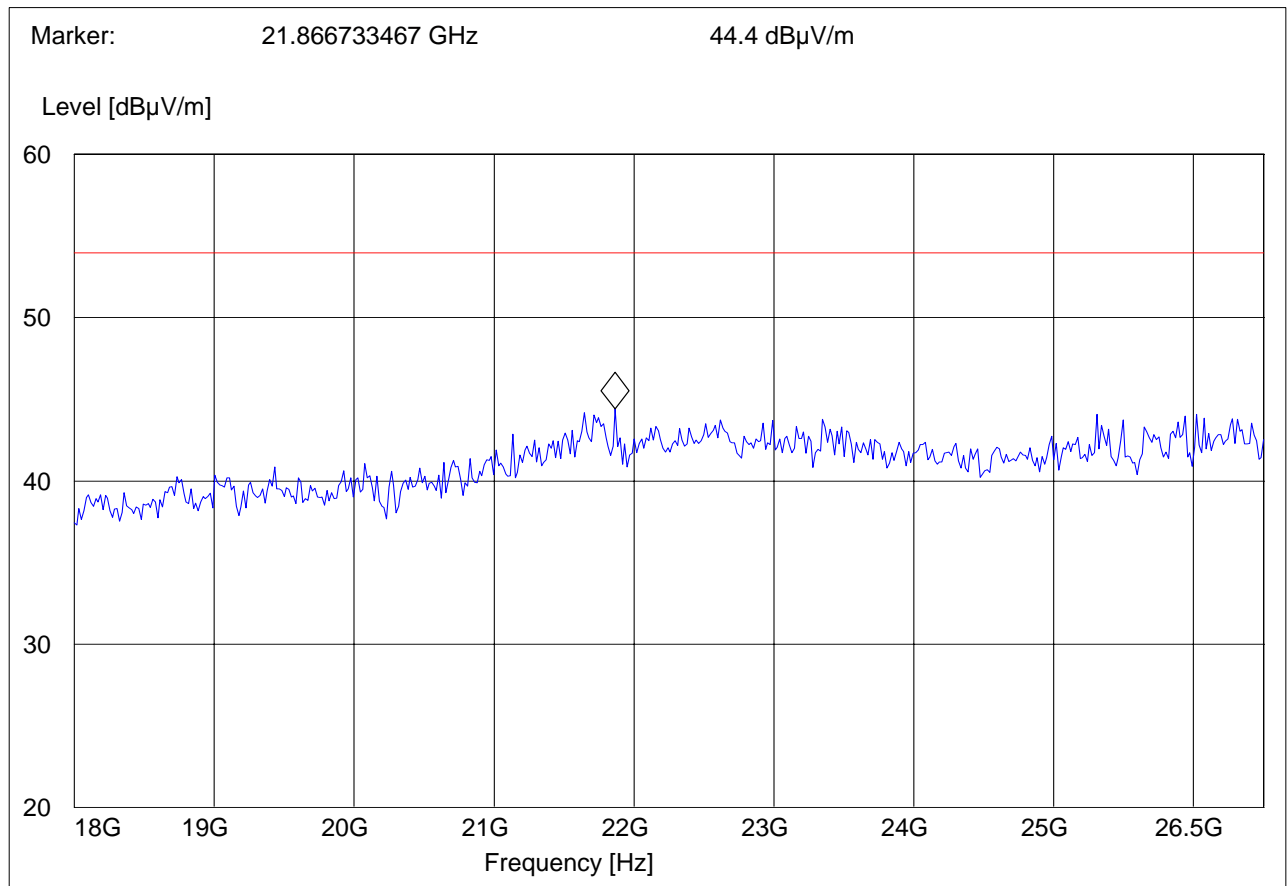


18-25GHz**Note: This plot is valid for low, mid, high channels (worst-case plot)****Note: Peak Reading vs. Average limit**

EUT: 04GU10b / C01
Customer: Braemar
Test Mode: BT CH.0; GFSK
ANT Orientation: V
EUT Orientation: V
Test Engineer: Chris
Voltage: Internal 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

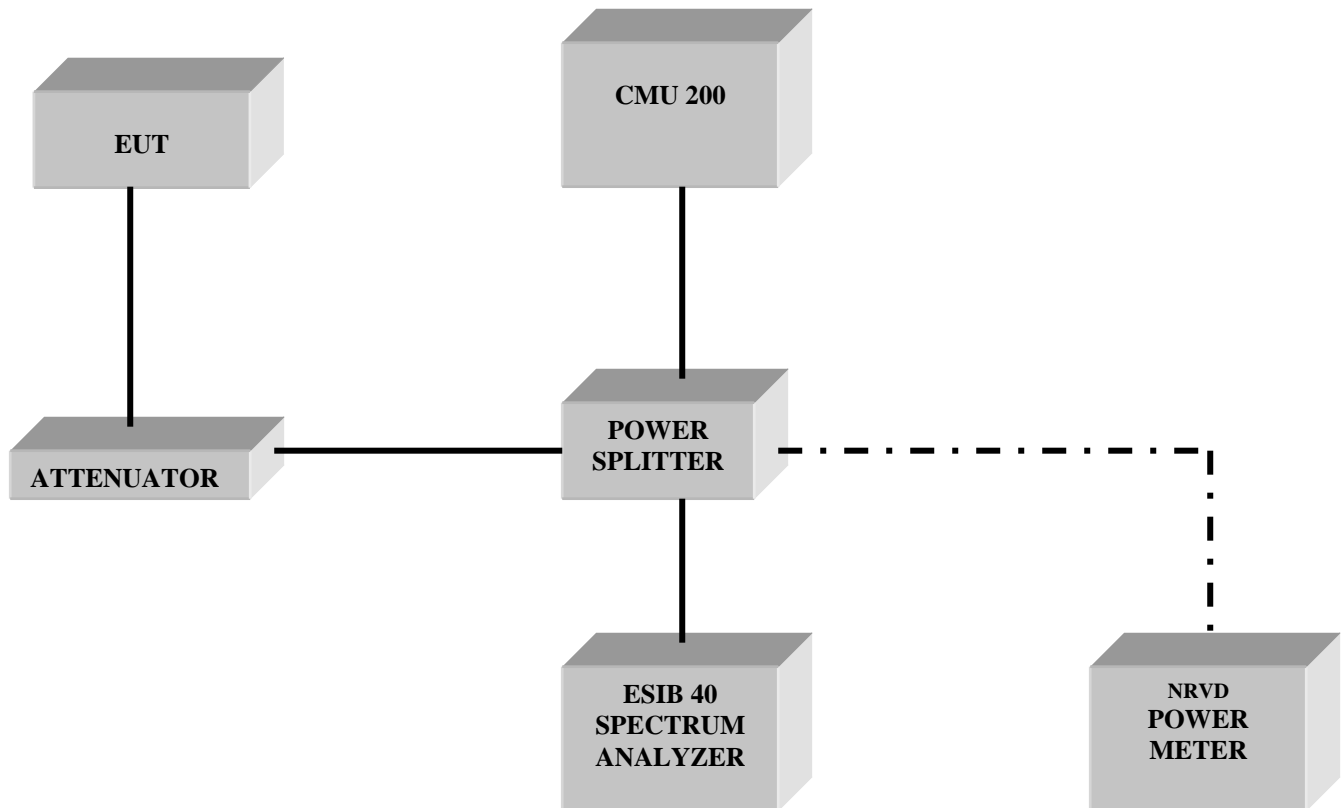


5 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal Due	Interval
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2009	1 year
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	100017	May 2009	1 year
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011	May 2009	1 year
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02	May 2009	1 year
05	Biconilog Antenna	3141	EMCO	0005-1186	June 2009	1 year
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	June 2009	1 year
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	June 2009	1 year
08	Power Splitter	11667B	Hewlett Packard	645348	n/a	n/a
09	Climatic Chamber	VT4004	Voltsch	G1115	May 2009	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 2009	1 year
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807	May 2009	1 year
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008	May 2009	1 year
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06	May 2009	1 year
16	LISN	ESH3-Z5	Rohde & Schwarz	836679/003	May 2009	1 year
17	Loop Antenna	6512	EMCO	00049838	July 2010	2 years

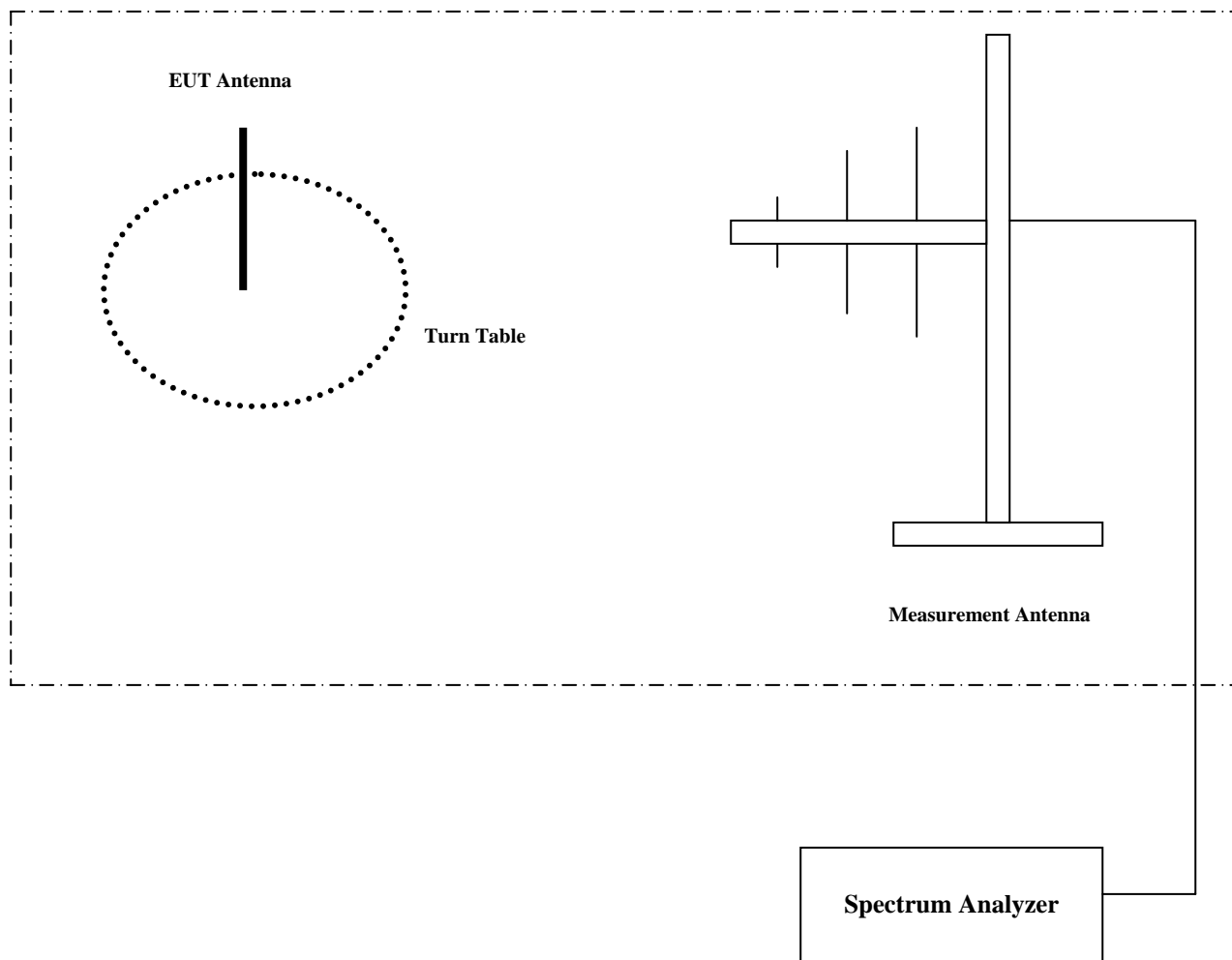
6 BLOCK DIAGRAMS

Conducted Testing



Radiated Testing

ANECHOIC CHAMBER



Test Report #: **EMC_BRAEM_005_08001_15.247**

Date of Report : 2009-03-15

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7 REPORT HISTORY

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