

# TEST REPORT

**Application No.:** SHEM2103002435CR  
**FCC ID:** 2AMIN-TWSEJ01ZM  
**IC:** 26993-TWSEJ01ZM  
**Applicant:** ZIMI CORPORATION  
**Address of Applicant:** A913, No.159 Chengjiang Road, Jiangyin City, Jiangsu Province, 214431, P.R.C  
**Manufacturer:** ZIMI CORPORATION  
**Address of Manufacturer:** A913, No.159 Chengjiang Road, Jiangyin City, Jiangsu Province, 214431, P.R.C  
**Factory:** HUIZHOU LYAND ACOUSTIC TECHNOLOGY CO.,LTD  
**Address of Factory:** NO.73,Jinfu Road, Xiaojinkou, Hui zhou City, Guangdong Province  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Earphones  
**Model No.:** TWSEJ01ZM  
**Trade mark:** Mi  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
 RSS-247 Issue 2, February 2017  
 RSS-Gen Issue 5 Amendment 2 (February 2021)  
**Date of Receipt:** 2021-03-29  
**Date of Test:** 2021-03-29 to 2021-04-21  
**Date of Issue:** 2021-04-23

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Parlam Zhan*

Parlam Zhan  
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-04-23	/

Authorized for issue by:				
		Micheal Niu / Project Engineer		
				
		Parlam Zhan / Reviewer		



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.1	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 3.85V by Battery Type 1(M1040S2-Q01) Rechargeable Lithium-ion Coin Cell
	DC 3.85V by Battery Type 2(JW025) Rechargeable Lithium-ion Coin Cell
Test voltage:	DC 3.85V
Serial Number:	34719,34263/BYAEWF12100001
Firmware version:	V1.0
HVIN:	TWSEJ01ZM-L TWSEJ01ZM-R
Antenna Gain:	ANT L: -1.57dBi (Provided by manufacturer) ANT R: -1.69dBi (Provided by manufacturer)
Antenna Type:	PIFA Antenna
Bluetooth Version:	V5.2 Dual mode
Data Rate:	1Mbps&2Mbps
Channel Spacing:	2MHz
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz

### 4.2 Power level setting using in test:

Channel	BLE
0	48
19	48
39	48

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/



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#### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.1dB (Below 1GHz)
		4.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

#### 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/17/2020	04/16/2021
2	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
3	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2020	12/01/2021
4	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
5	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
6	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
7	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
8	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
9	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2020	04/16/2021
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
11	Power Meter	Anritsu	ML2495A	1445010	04/16/2020	04/15/2021
12	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
13	Switcher	CCSRF	FY562	KUS2001M00 1-3	10/19/2020	10/18/2021
14	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
15	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
16	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
17	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
18	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
19	Conducted test cable	/	RF01-RF04	/	04/16/2020	04/15/2021
20	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
21	Software	SGS	TST-PASS	N/A	N/A	N/A
22	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/16/2020	04/15/2021
23	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
24	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2021
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/14/2019	04/13/2021
6	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
10	Horn-antenna(40-60GHz)	REBES	SAZ-2410-19-S1	06299-01	N/A	N/A
11	Horn-antenna(50-75GHz)	REBES	SAZ-2410-15-S1	01731-01	N/A	N/A
12	Horn-antenna(75-110GHz)	REBES	SAZ-2410-10-S1	01773-09	N/A	N/A
13	Horn-antenna(110-170GHz)	REBES	SAZ-2410-06-S1	01776-05	N/A	N/A
14	Horn-antenna(140-220GHz)	REBES	SAZ-2410-05-S1	01759-04	N/A	N/A
15	Horn-antenna(220-325GHz)	REBES	SAR-2309-03-S2	06300-01	N/A	N/A



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16	Extended waveguide(40-60GHz)	REBES	SWG-19025-FB	06303-01	N/A	N/A
17	Extended waveguide(50-75GHz)	REBES	SWG-15025-FB	01525-09	N/A	N/A
18	Extended waveguide(75-110GHz)	REBES	SWG-10025-FB	01509-01	N/A	N/A
19	Extended waveguide(110-170GHz)	REBES	SWG-06025-FB	06302-01	N/A	N/A
20	Extended waveguide(140-220GHz)	REBES	SWG-05025-FB	06304-01	N/A	N/A
21	Extended waveguide(220-325GHz)	REBES	SWG-03025-FB	06301-01	N/A	N/A
22	Harmonic mixer(110-170GHz)	REBES	STH-06SF-S1	06110-01	N/A	N/A
23	Harmonic mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	N/A	N/A
24	Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	N/A	N/A
25	Waveguide Harmonic Mixer(50-75GHz) cable	Silverline	SLU18-SMSM-01.00M	99612	N/A	N/A
26	Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	N/A	N/A
27	Waveguide Harmonic Mixer(75-110GHz) cable	Silverline	SLU18-SMSM-01.00M	94202	N/A	N/A
28	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/16/2020	04/15/2021
29	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
30	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
31	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
32	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
33	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
34	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
35	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
36	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
37	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
38	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
39	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
40	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
41	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
42	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
43	RE test cable	/	RE01-RE04	/	04/16/2020	04/15/2021
44	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
45	Software	Fard technology co.,ltd	EZ-EMC	1.1.1.2	N/A	N/A



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PIFA Antenna integrated on the main PCB and no consideration of replacement. The best case gain of the antenna L gain is -1.57dBi & antenna R gain is -1.69dBi.

Antenna location: Refer to Appendix (Internal Photos)



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## 7 Radio Spectrum Matter Test Results

### 7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
 Test Method: ANSI C63.10 (2013) Section 11.8.1  
 Limit:  $\geq 500$  kHz

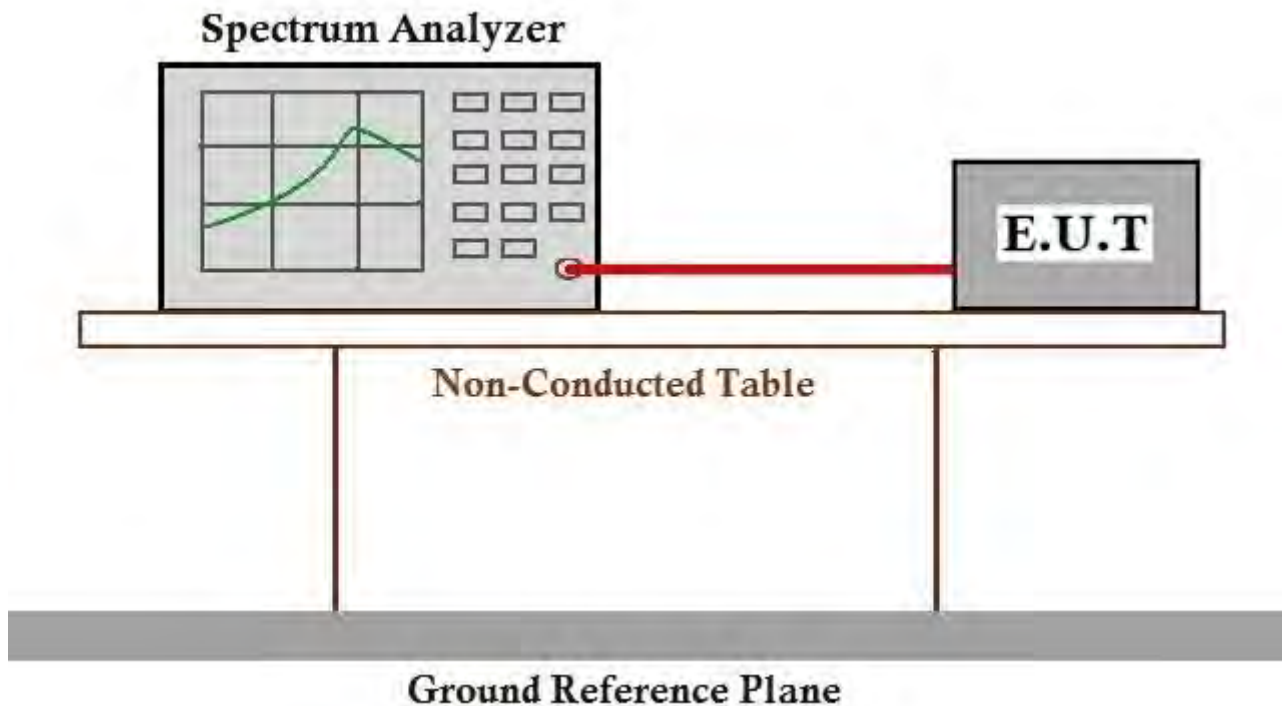
#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.1.2 Test Setup Diagram



#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210300243502-BLE-L  
 Appendix D for SHEM210300243502-BLE-R



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## 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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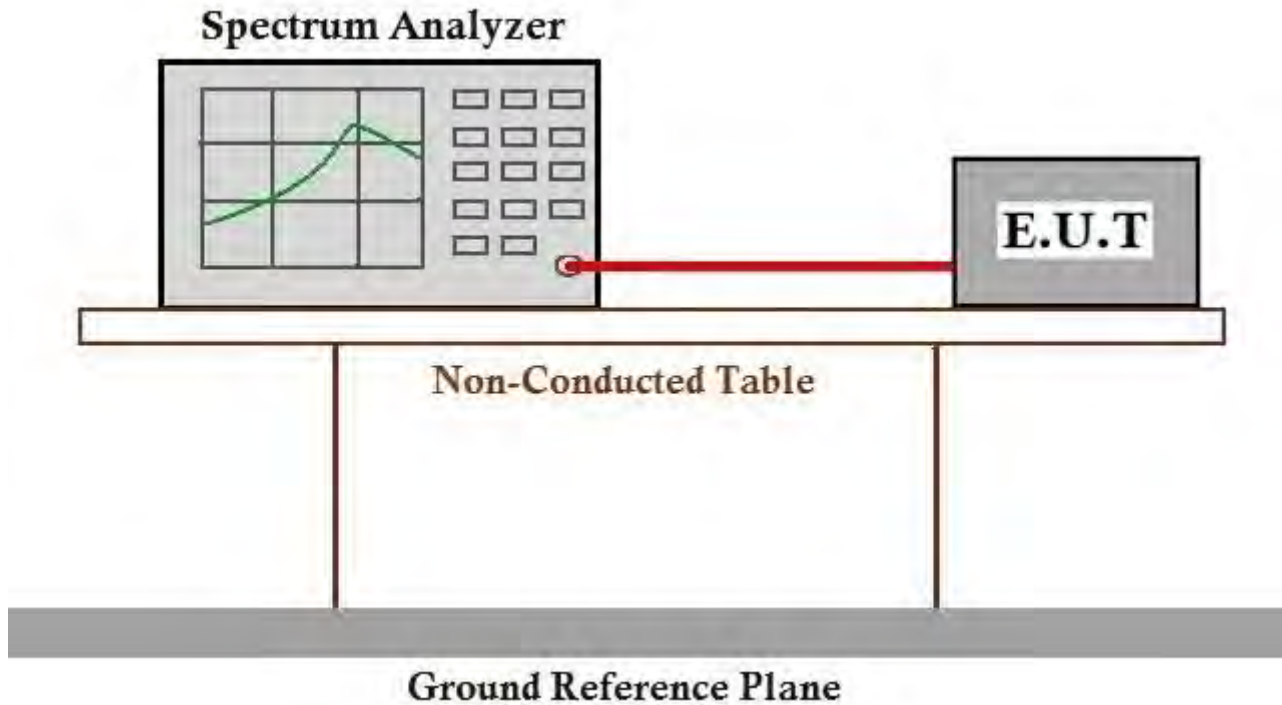
**7.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 50 % RH Atmospheric Pressure: 1004 mbar

Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

**7.2.2 Test Setup Diagram**



**7.2.3 Measurement Procedure and Data**

The detailed test data see: Appendix C for SHEM210300243502-BLE-L  
Appendix D for SHEM210300243502-BLE-R



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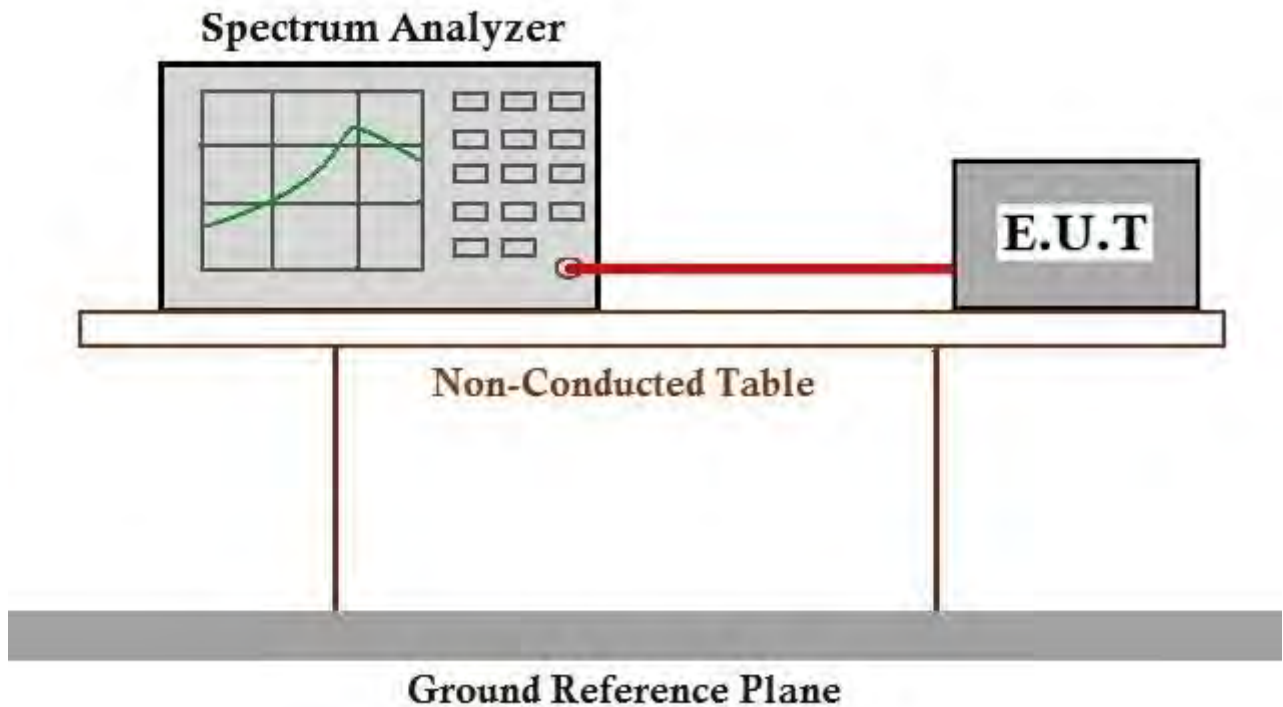
### 7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
 Test Method: ANSI C63.10 (2013) Section 11.10.2  
 Limit:  $\leq 8\text{dBm}$  in any 3 kHz band during any time interval of continuous transmission

#### 7.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1004 mbar  
 Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210300243502-BLE-L  
 Appendix D for SHEM210300243502-BLE-R



### 7.4 Conducted Band Edges Measurement

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(d)  
**Test Method:** ANSI C63.10 (2013) Section 11.13.3.2  
**Limit:** In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which 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))



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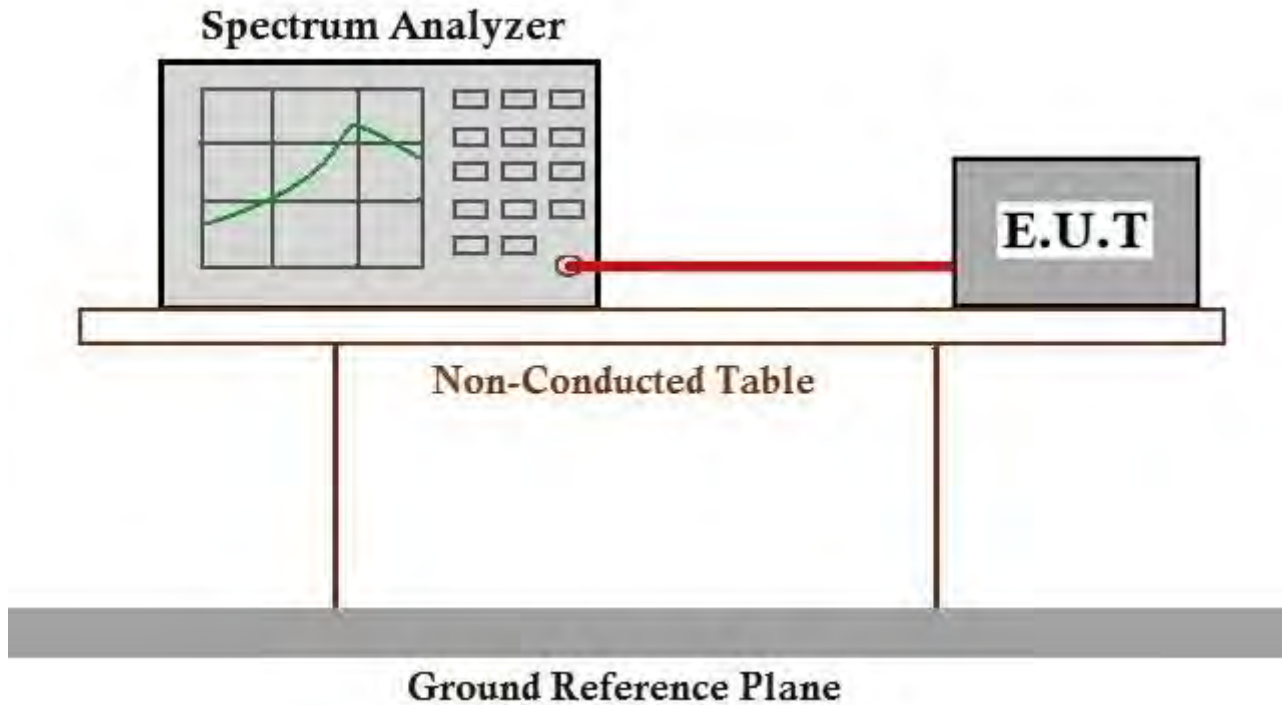
**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

**7.4.2 Test Setup Diagram**



**7.4.3 Measurement Procedure and Data**

The detailed test data see: Appendix C for SHEM210300243502-BLE-L  
Appendix D for SHEM210300243502-BLE-R



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### 7.5 Conducted Spurious Emissions

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(d)  
**Test Method:** ANSI C63.10 (2013) Section 11.11  
**Limit:** In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which 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))



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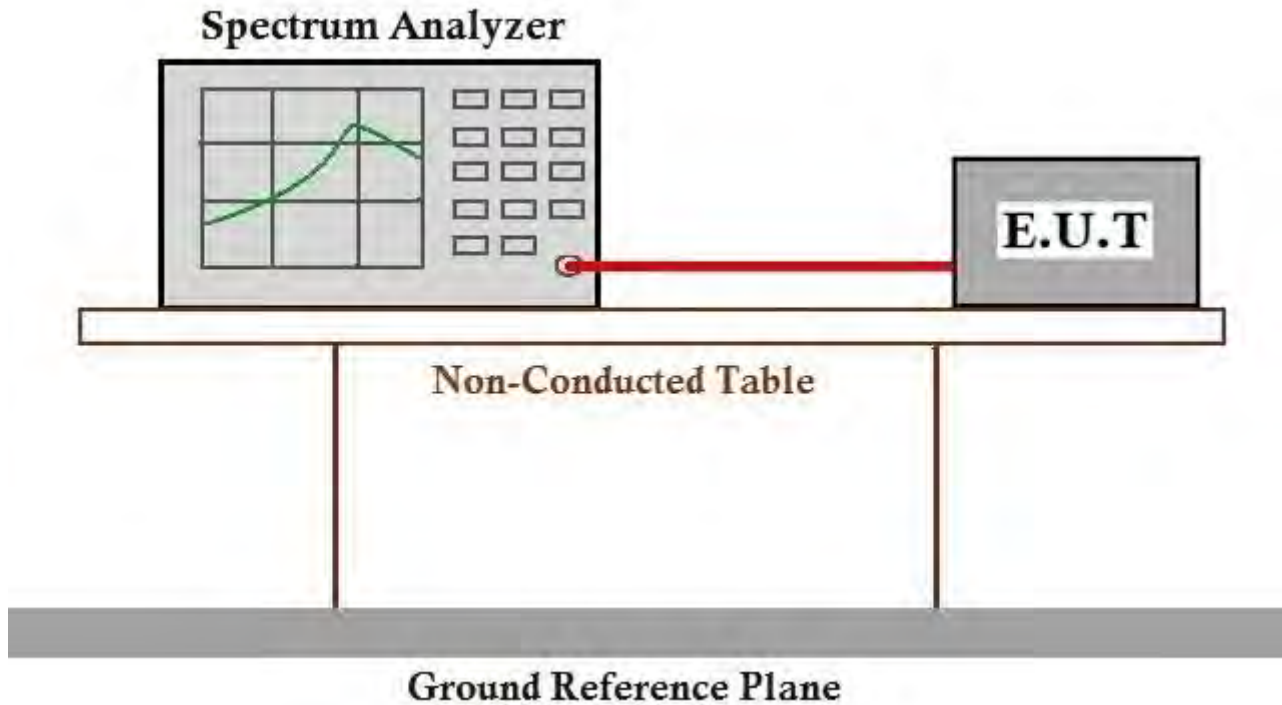
**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

**7.5.2 Test Setup Diagram**



**7.5.3 Measurement Procedure and Data**

The detailed test data see: Appendix C for SHEM210300243502-BLE-L  
Appendix D for SHEM210300243502-BLE-R



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**7.6 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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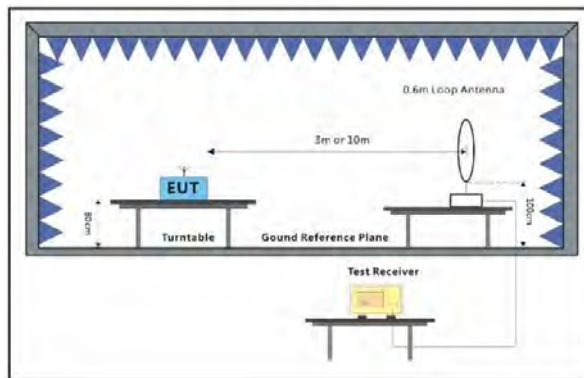
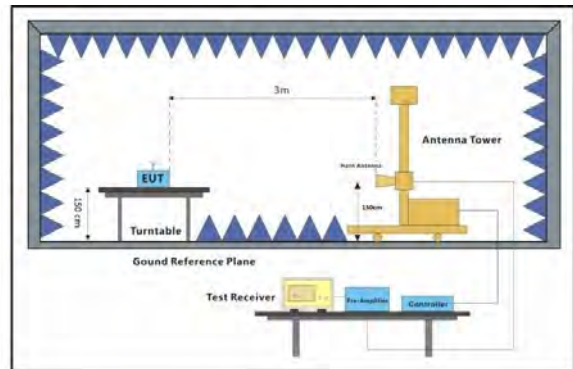
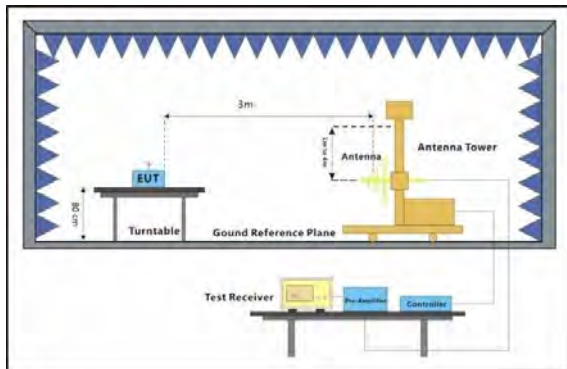
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.6.2 Test Setup Diagram



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 t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

### 7.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: After Pre scan the matching of two battery types, the EUT with Battery Type 1(M1040S2-Q01) was the worst mode, which mode data was recorded.

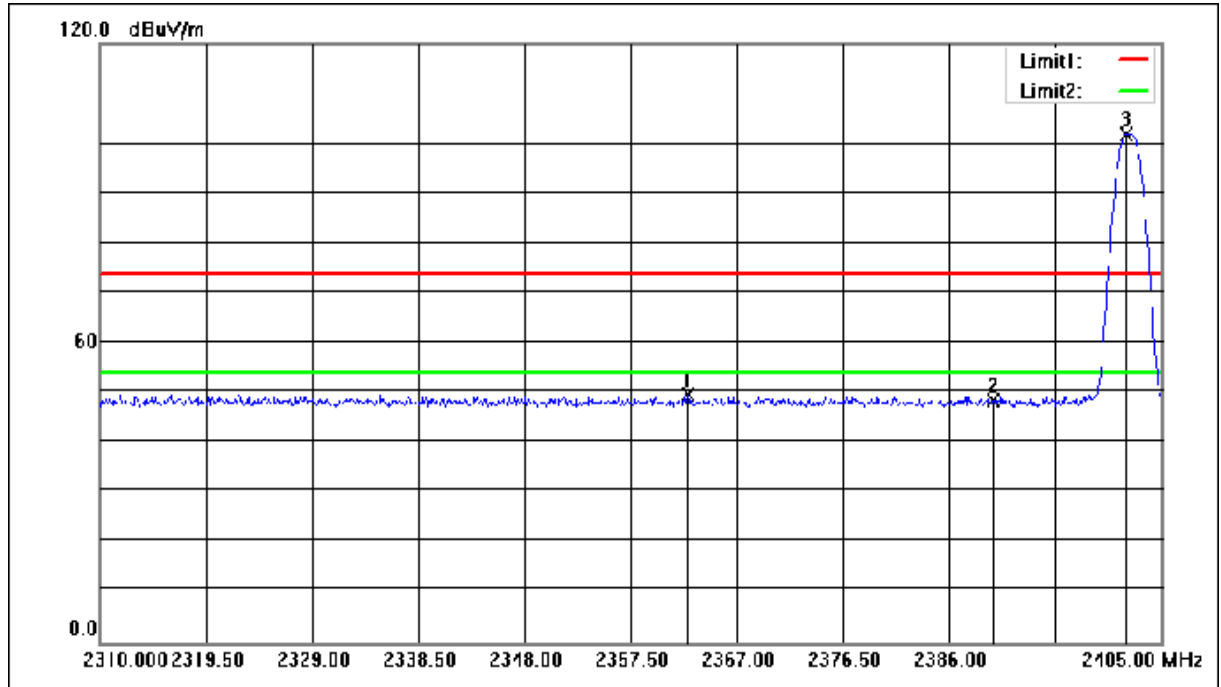


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Left Ear

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low ; Data rate:1M



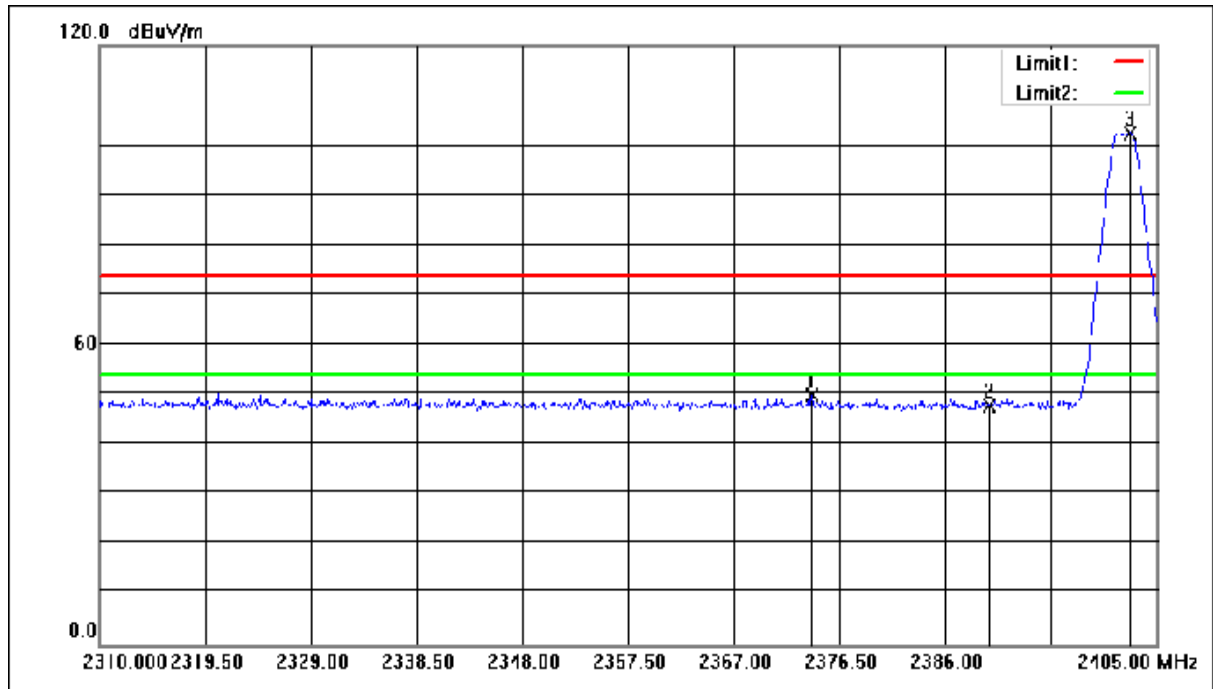
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2362.630	53.95	-4.31	49.64	74.00	-24.36	peak
2	2390.000	52.60	-4.24	48.36	74.00	-25.64	peak
3	2401.865	106.01	-4.21	101.80	74.00	27.80	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low ; Data rate:2M



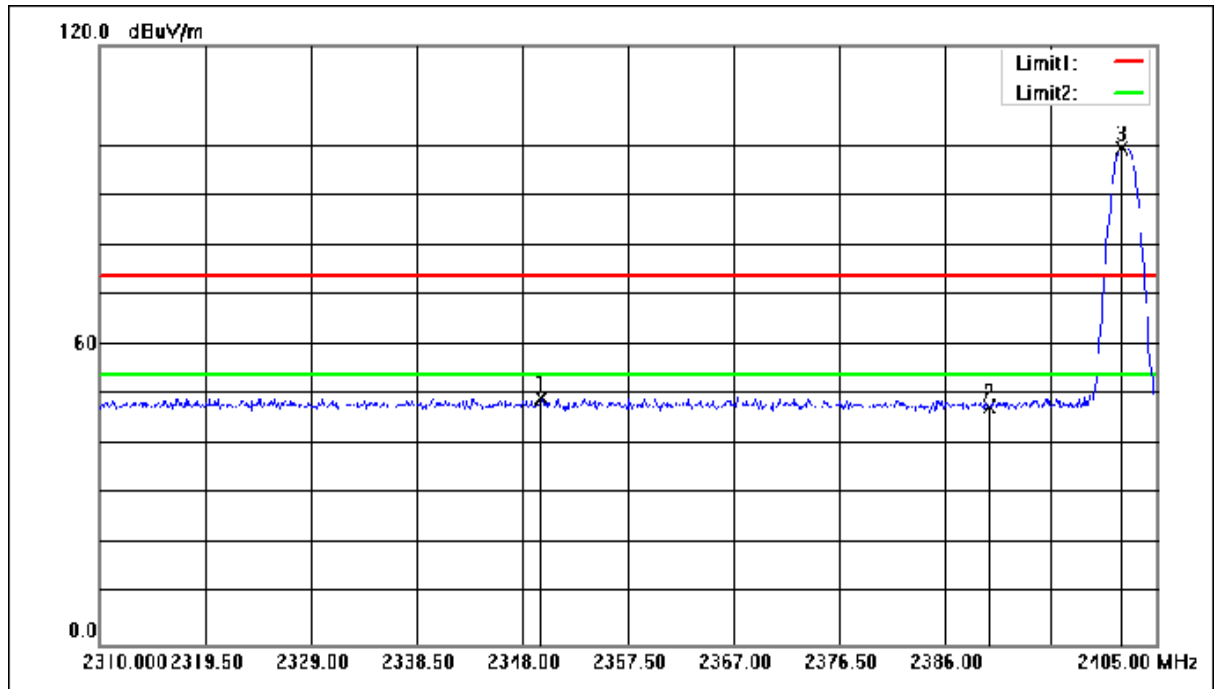
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.030	54.20	-4.28	49.92	74.00	-24.08	peak
2	2390.000	52.13	-4.24	47.89	74.00	-26.11	peak
3	2402.625	106.81	-4.21	102.60	74.00	28.60	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2349.710	53.77	-4.35	49.42	74.00	-24.58	peak
2	2390.000	51.83	-4.24	47.59	74.00	-26.41	peak
3	2401.865	103.79	-4.21	99.58	74.00	25.58	peak

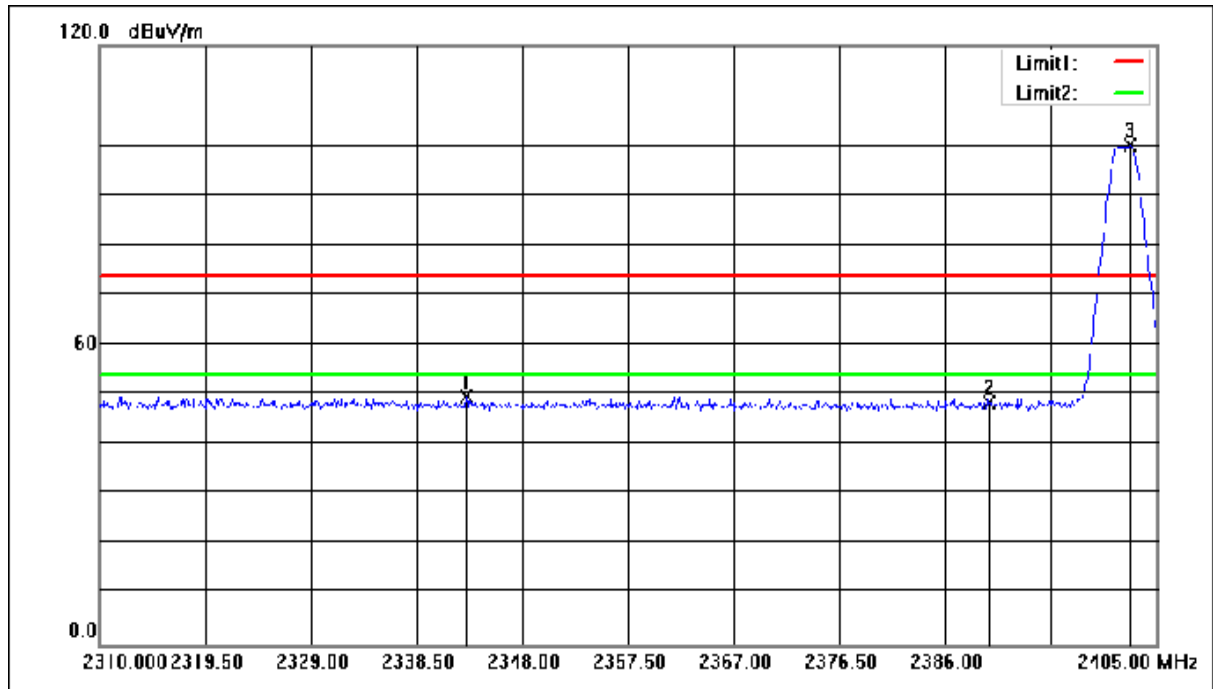


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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low ; Data rate:2M



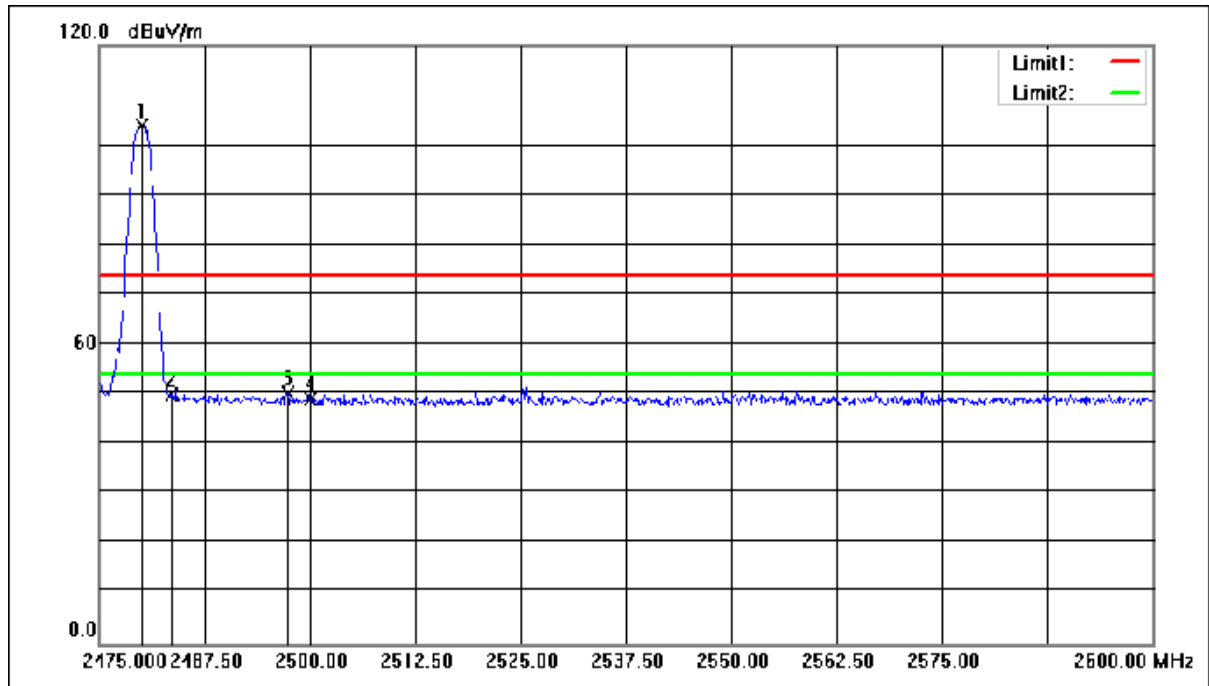
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2342.965	54.04	-4.37	49.67	74.00	-24.33	peak
2	2390.000	52.69	-4.24	48.45	74.00	-25.55	peak
3	2402.625	104.14	-4.21	99.93	74.00	25.93	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High ; Data rate:1M



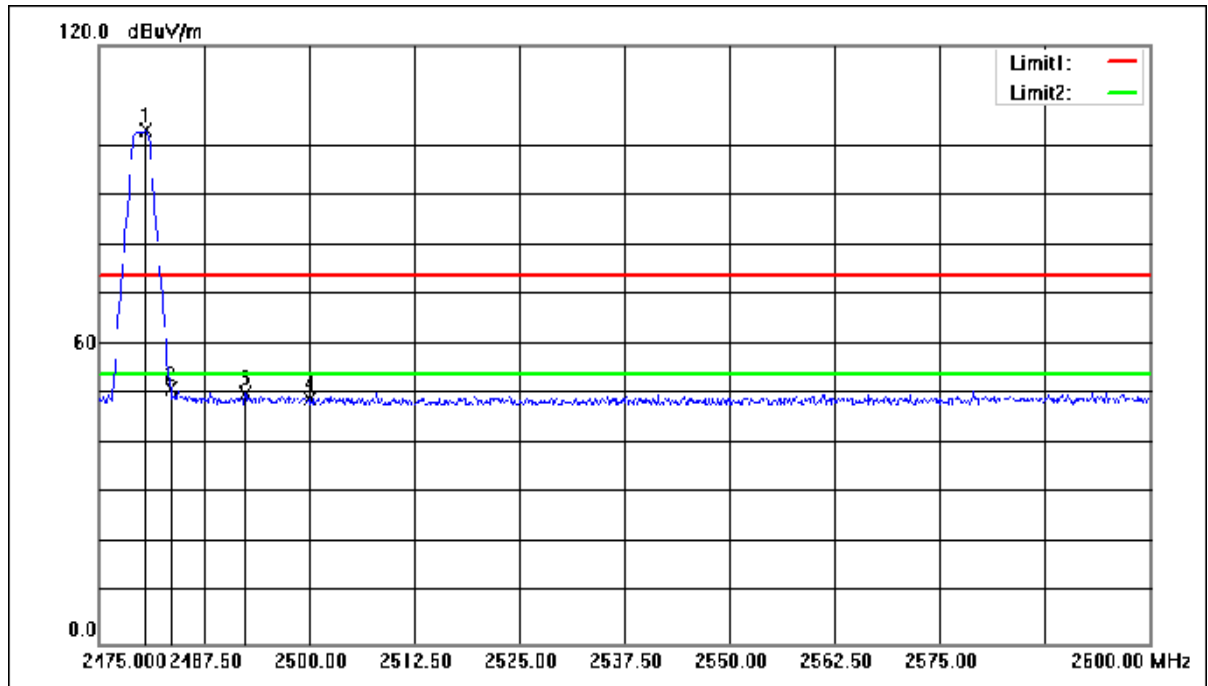
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.125	108.00	-4.01	103.99	74.00	29.99	peak
2	2483.560	54.01	-4.00	50.01	74.00	-23.99	peak
3	2497.375	54.30	-3.97	50.33	74.00	-23.67	peak
4	2500.000	52.93	-3.96	48.97	74.00	-25.03	peak



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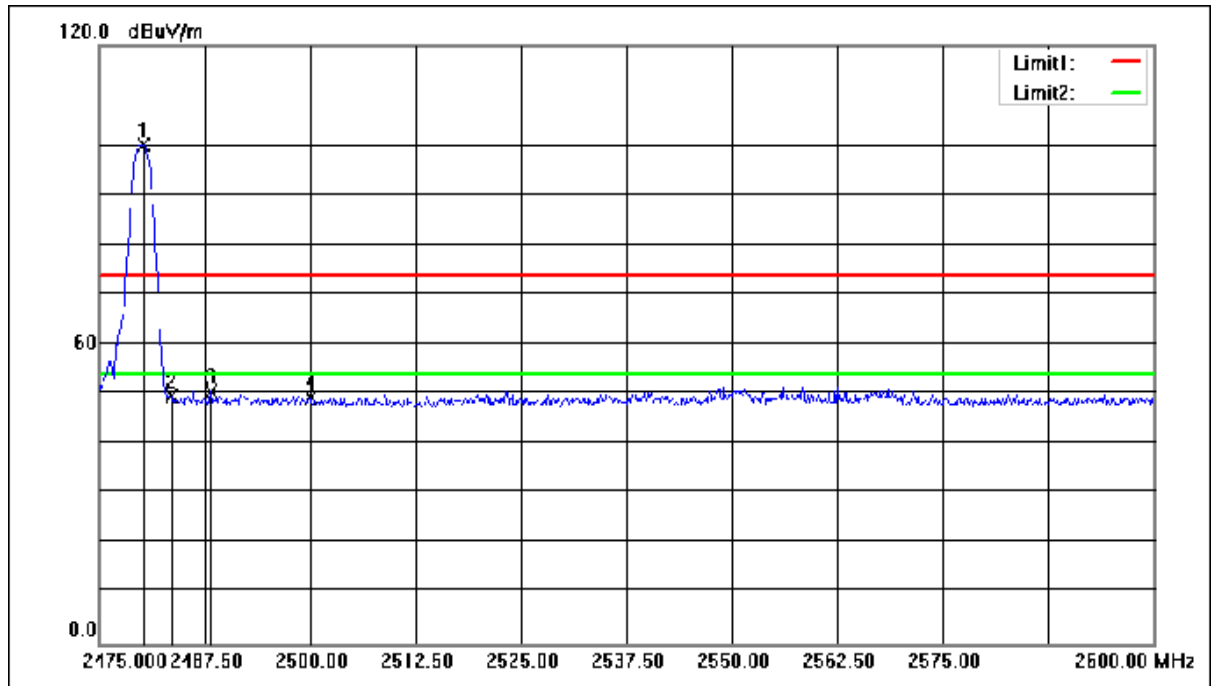
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.500	107.04	-4.01	103.03	74.00	29.03	peak
2	2483.500	55.26	-4.00	51.26	74.00	-22.74	peak
3	2492.375	54.13	-3.98	50.15	74.00	-23.85	peak
4	2500.000	52.91	-3.96	48.95	74.00	-25.05	peak



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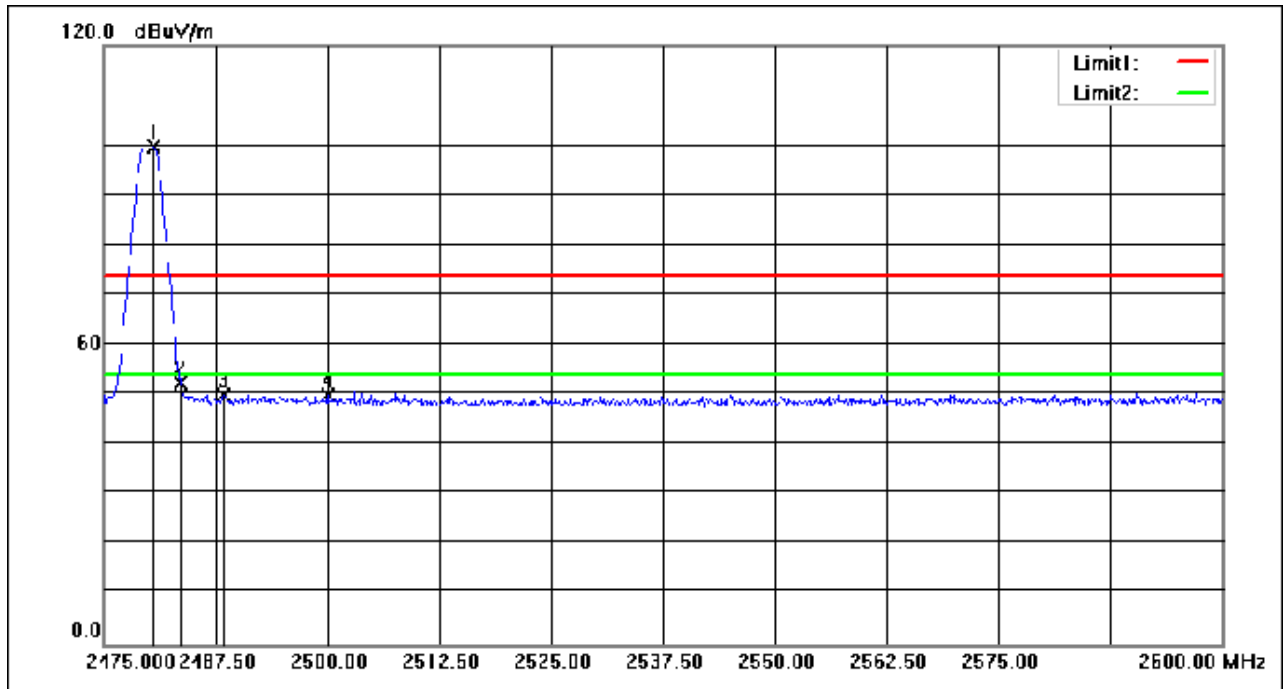
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1	2480.250	104.01	-4.01	100.00	74.00	26.00	peak
2	2483.500	53.75	-4.00	49.75	74.00	-24.25	peak
3	2488.250	54.41	-3.99	50.42	74.00	-23.58	peak
4	2500.000	53.24	-3.96	49.28	74.00	-24.72	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High ; Data rate:2M



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.500	103.70	-4.01	99.69	74.00	25.69	peak
2	2483.500	56.48	-4.00	52.48	74.00	-21.52	peak
3	2488.375	54.02	-3.99	50.03	74.00	-23.97	peak
4	2500.000	53.77	-3.96	49.81	74.00	-24.19	peak

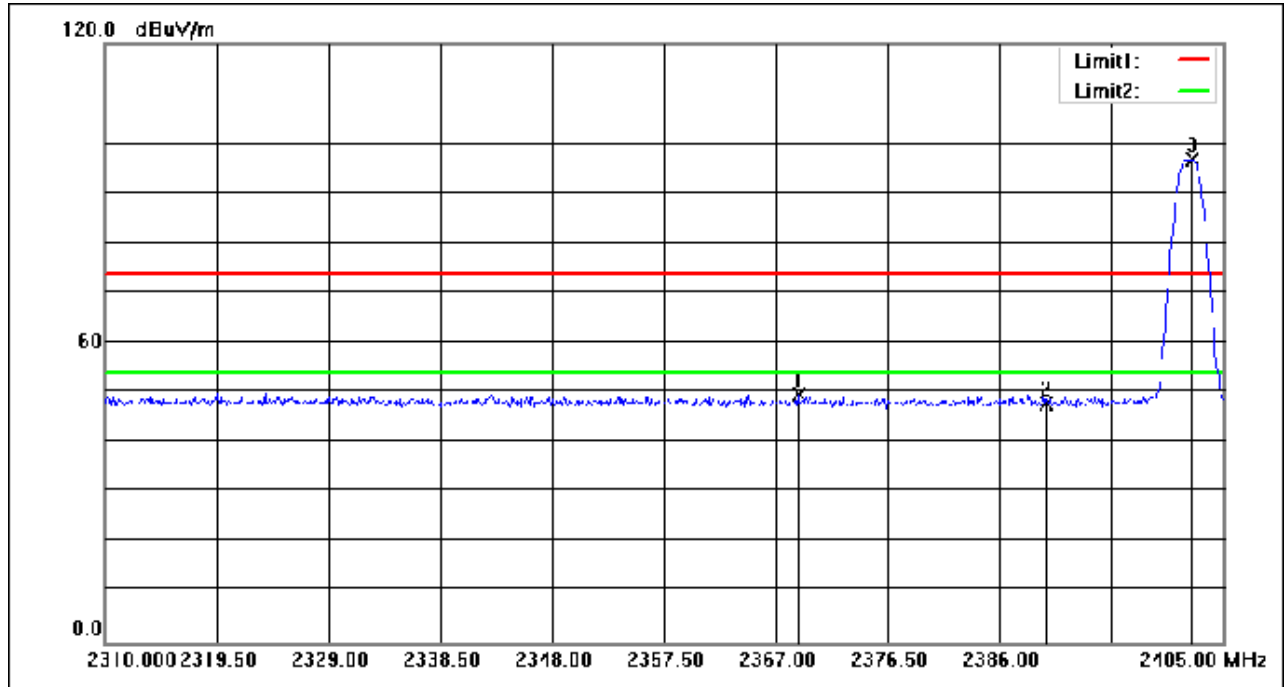


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Right Ear

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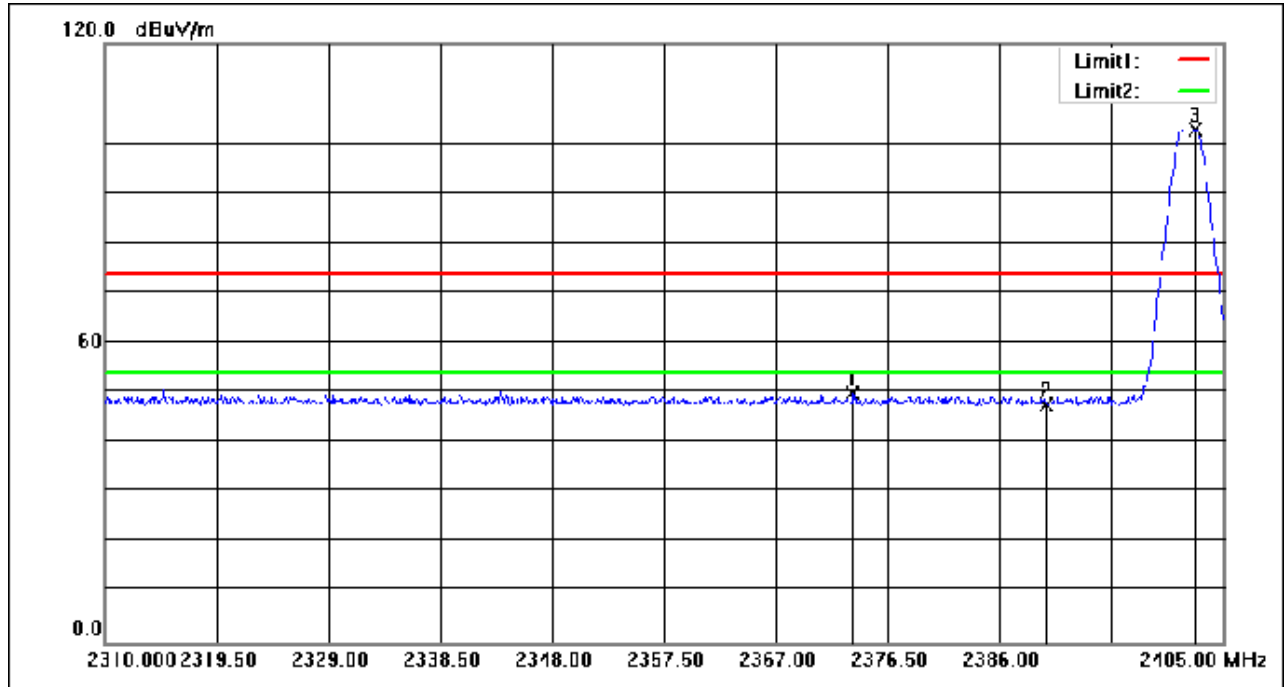
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2368.900	53.87	-4.30	49.57	74.00	-24.43	peak
2	2390.000	52.22	-4.24	47.98	74.00	-26.02	peak
3	2402.340	101.03	-4.21	96.82	74.00	22.82	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low ; Data rate:2M



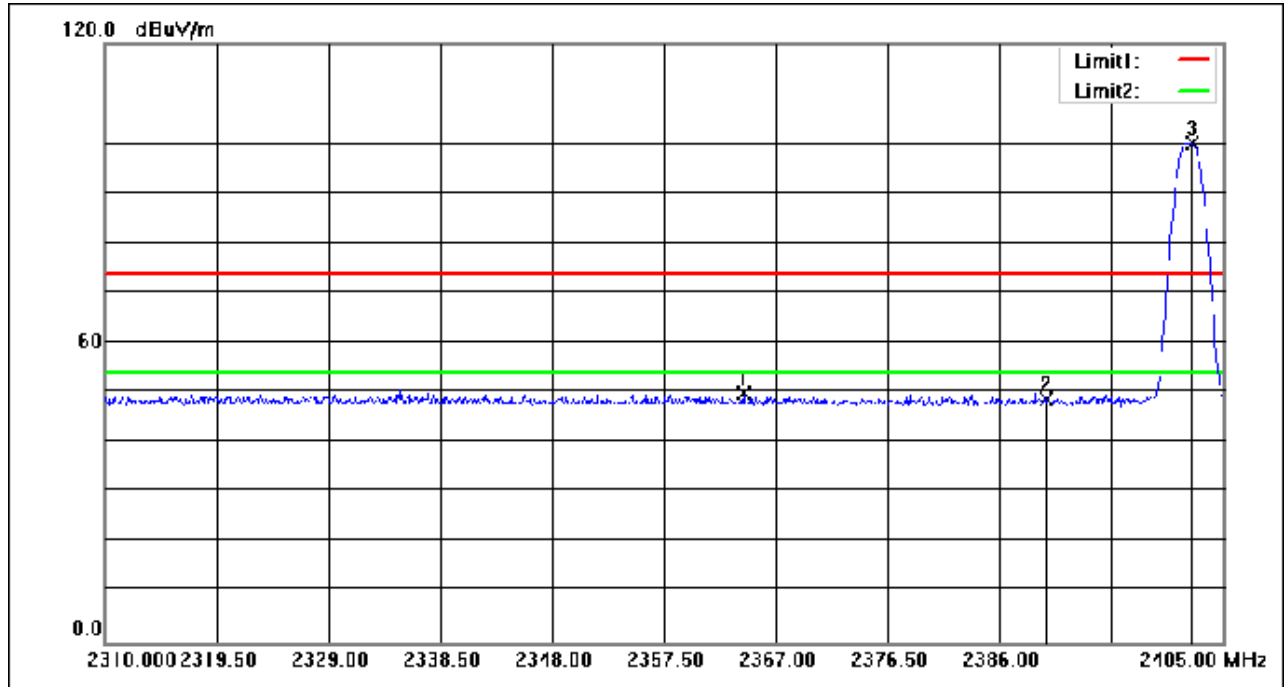
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2373.555	54.14	-4.29	49.85	74.00	-24.15	peak
2	2390.000	51.87	-4.24	47.63	74.00	-26.37	peak
3	2402.625	106.95	-4.21	102.74	74.00	28.74	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2364.245	54.41	-4.31	50.10	74.00	-23.90	peak
2	2390.000	52.86	-4.24	48.62	74.00	-25.38	peak
3	2402.340	104.22	-4.21	100.01	74.00	26.01	peak

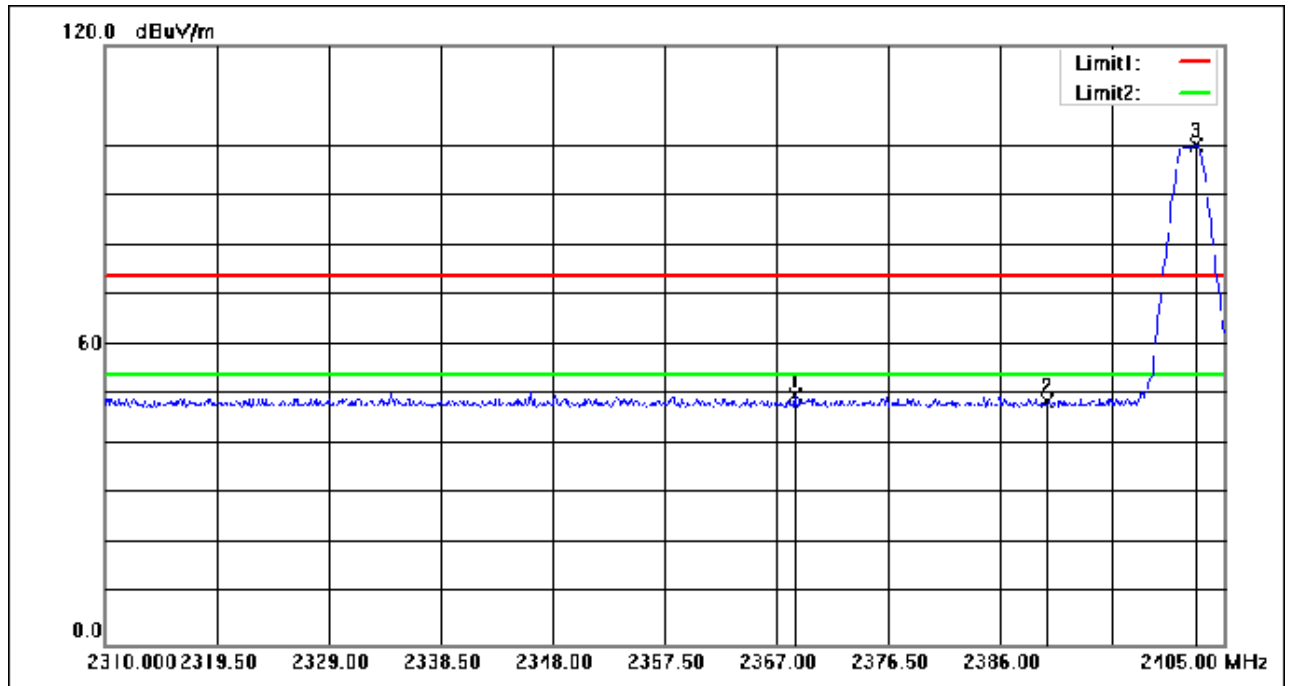


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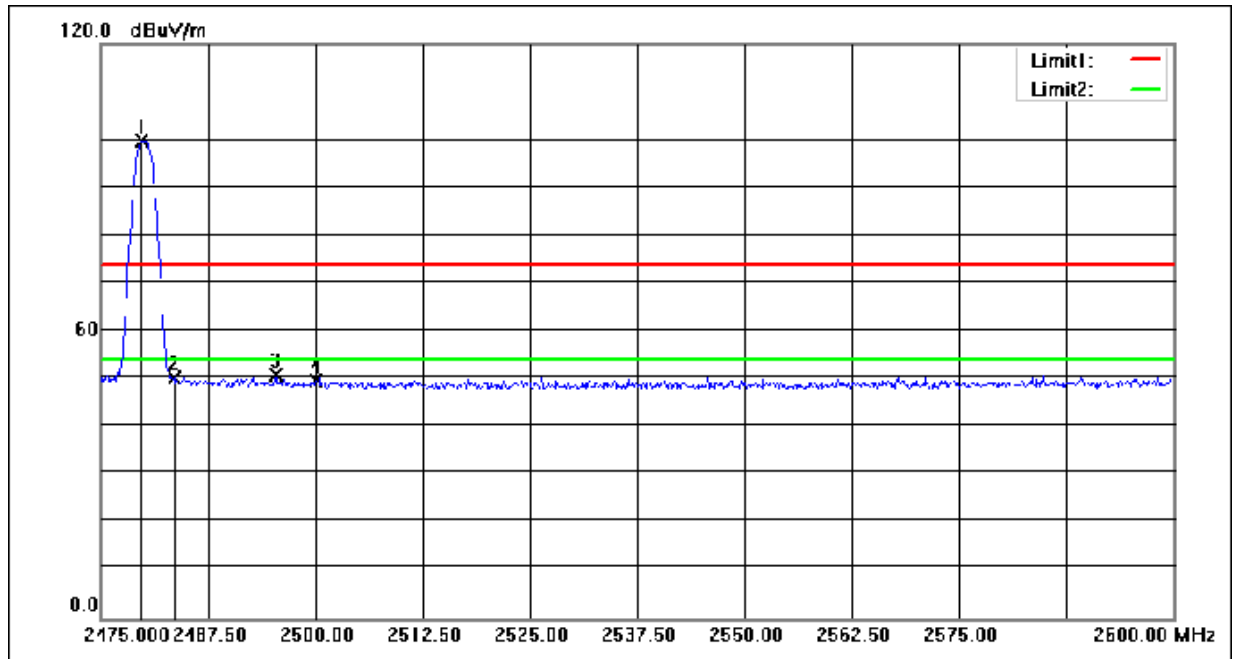
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2368.520	54.18	-4.30	49.88	74.00	-24.12	peak
2	2390.000	52.94	-4.24	48.70	74.00	-25.30	peak
3	2402.625	104.21	-4.21	100.00	74.00	26.00	peak



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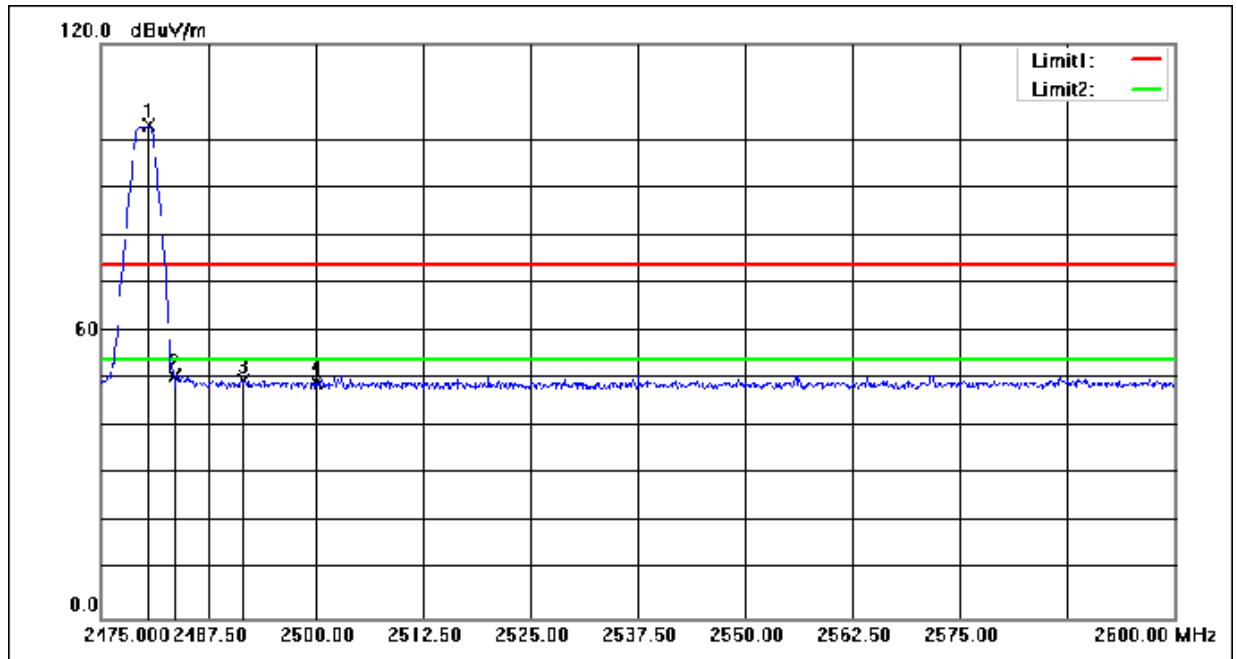
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.750	103.67	-4.01	99.66	74.00	25.66	peak
2	2483.500	54.34	-4.00	50.34	74.00	-23.66	peak
3	2495.375	54.78	-3.97	50.81	74.00	-23.19	peak
4	2500.000	53.63	-3.96	49.67	74.00	-24.33	peak



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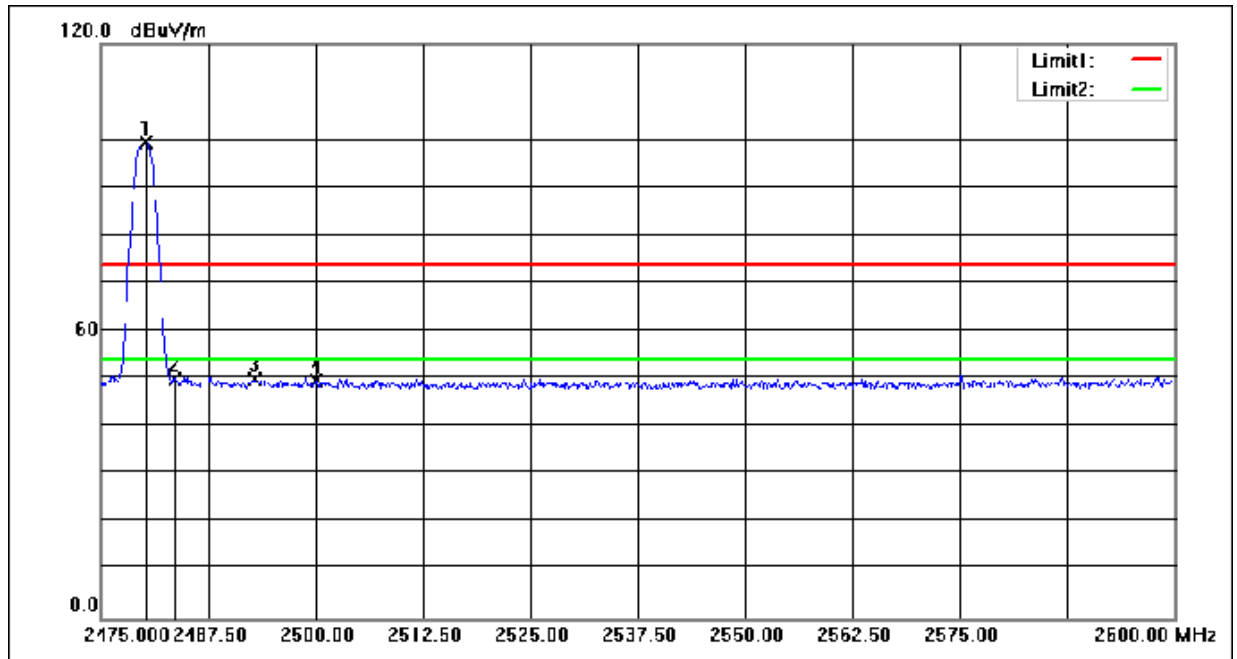
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.500	107.04	-4.01	103.03	74.00	29.03	peak
2	2483.500	54.69	-4.00	50.69	74.00	-23.31	peak
3	2491.500	53.66	-3.98	49.68	74.00	-24.32	peak
4	2500.000	53.44	-3.96	49.48	74.00	-24.52	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High ; Data rate:1M



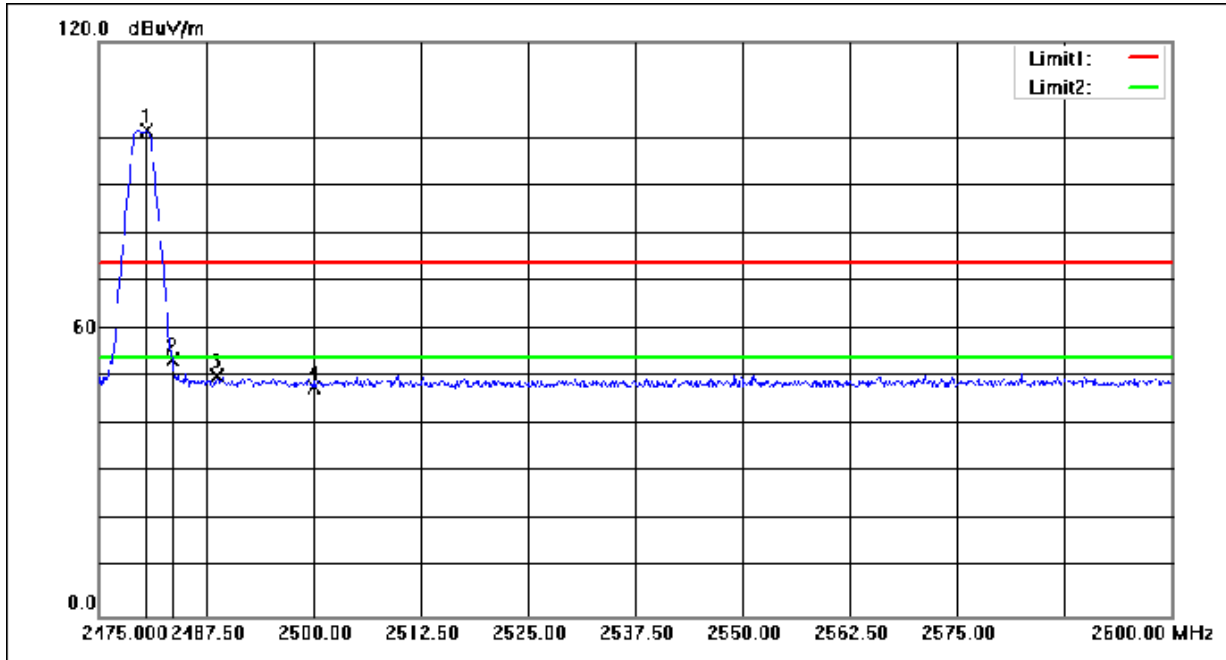
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.250	103.43	-4.01	99.42	74.00	25.42	peak
2	2483.500	54.07	-4.00	50.07	74.00	-23.93	peak
3	2492.875	53.81	-3.98	49.83	74.00	-24.17	peak
4	2500.000	53.48	-3.96	49.52	74.00	-24.48	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High ; Data rate:2M



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.500	105.67	-4.01	101.66	74.00	27.66	peak
2	2483.500	57.48	-4.00	53.48	74.00	-20.52	peak
3	2488.750	54.11	-3.99	50.12	74.00	-23.88	peak
4	2500.000	51.84	-3.96	47.88	74.00	-26.12	peak



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### 7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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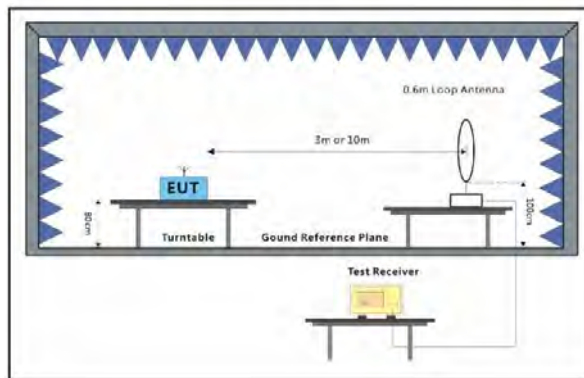
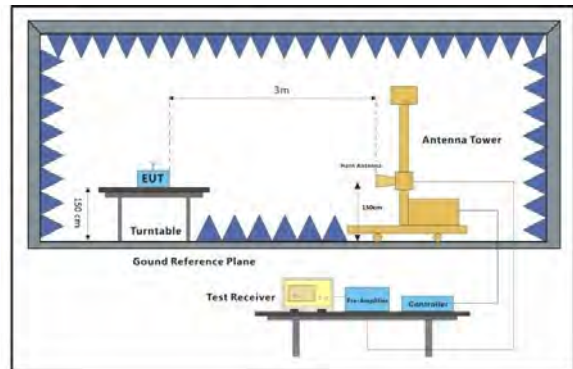
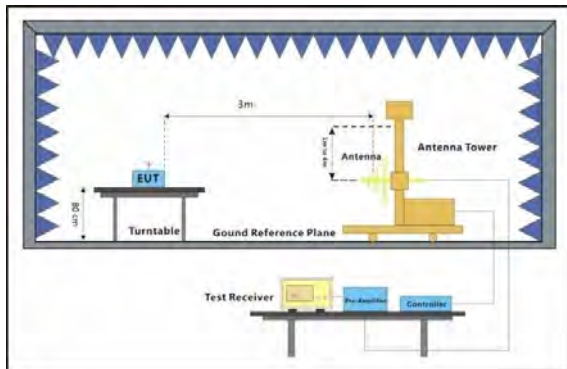
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1006 mbar

Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.7.2 Test Setup Diagram



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### 7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 5) After Pre scan the matching of two battery types, the EUT with Battery Type 1(M1040S2-Q01) was the worst mode, which mode data was recorded.



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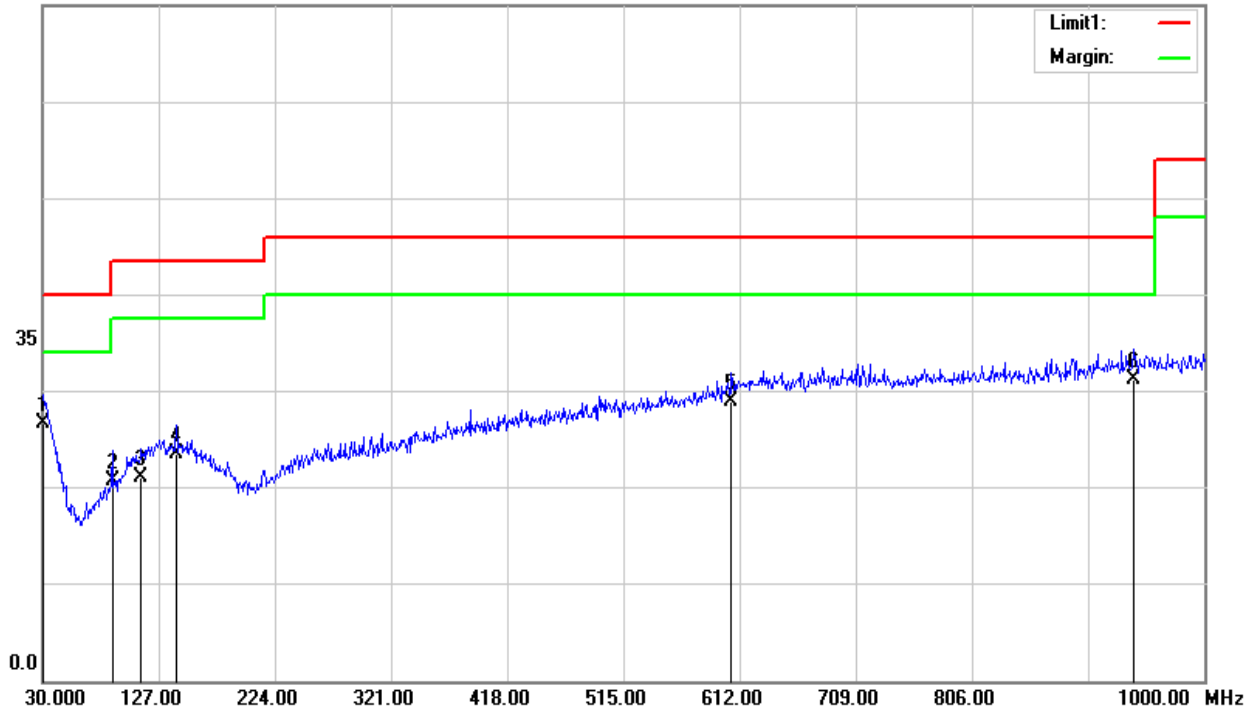


30MHz~1GHz

Left Ear

Horizontal

70.0 dBuV/m



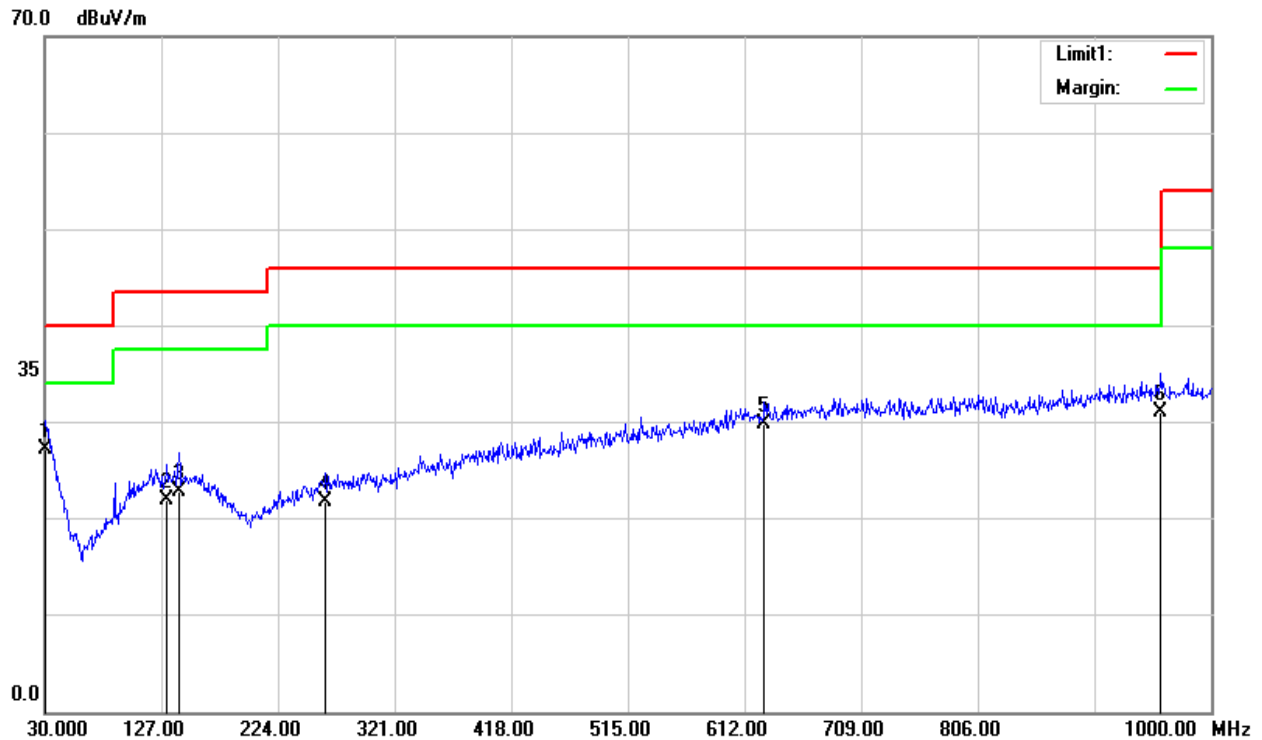
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.35	25.38	26.73	40.00	-13.27	200	187	QP
2	88.2000	4.38	16.42	20.80	43.50	-22.70	300	266	QP
3	112.4500	2.19	18.92	21.11	43.50	-22.39	300	360	QP
4	141.5500	3.73	19.86	23.59	43.50	-19.91	100	185	QP
5	605.2100	2.37	26.57	28.94	46.00	-17.06	244	360	QP
6	940.8300	2.04	29.18	31.22	46.00	-14.78	252	360	QP



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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.87	25.38	27.25	40.00	-12.75	200	168	QP
2	131.8500	2.43	19.55	21.98	43.50	-21.52	100	338	QP
3	141.5500	3.01	19.86	22.87	43.50	-20.63	100	246	QP
4	263.7700	2.12	19.68	21.80	46.00	-24.20	200	17	QP
5	628.4900	3.02	26.85	29.87	46.00	-16.13	163	0	QP
6	958.2900	1.81	29.28	31.09	46.00	-14.91	100	205	QP



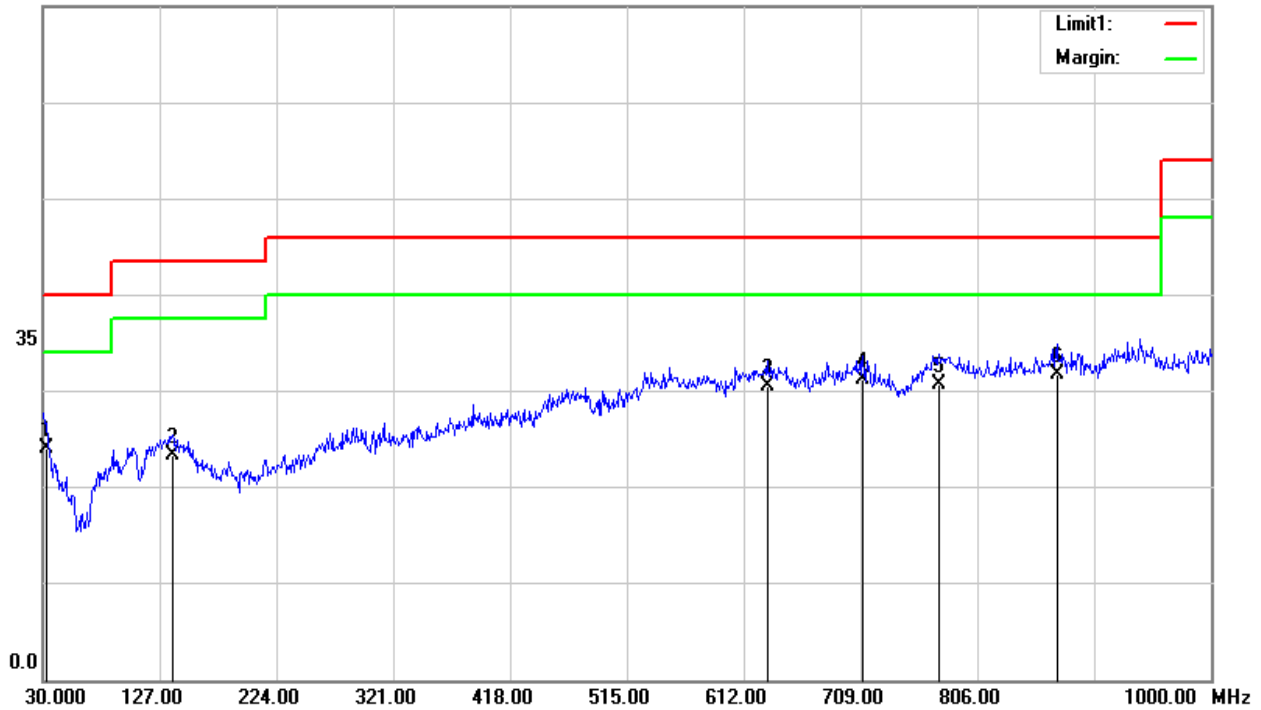
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Right Ear

Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	32.9100	-0.25	24.27	24.02	40.00	-15.98	100	145	QP
2	137.6700	3.67	19.74	23.41	43.50	-20.09	200	205	QP
3	631.4000	3.67	26.89	30.56	46.00	-15.44	200	211	QP
4	710.9400	3.75	27.50	31.25	46.00	-14.75	100	236	QP
5	773.9900	3.09	27.65	30.74	46.00	-15.26	100	98	QP
6	871.9600	3.51	28.34	31.85	46.00	-14.15	300	61	QP

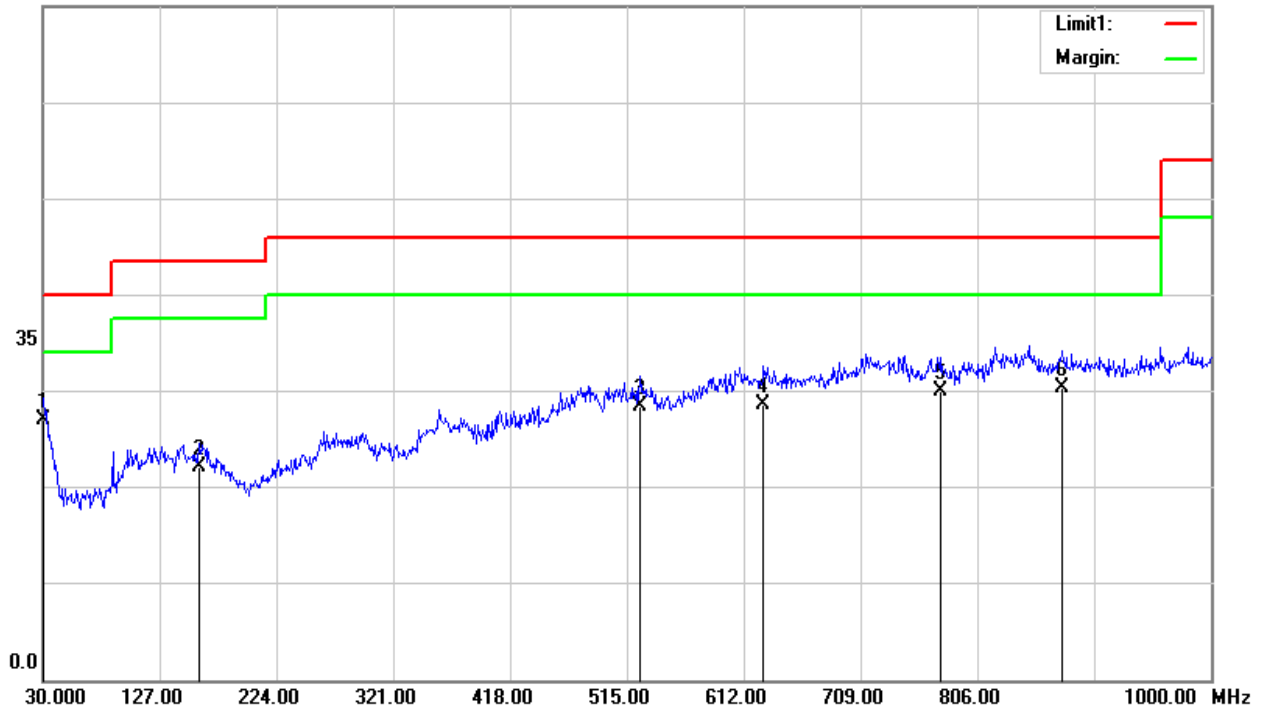


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Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.64	25.38	27.02	40.00	-12.98	300	147	QP
2	159.9800	2.85	19.36	22.21	43.50	-21.29	300	255	QP
3	525.6700	2.87	25.54	28.41	46.00	-17.59	200	201	QP
4	628.4900	1.84	26.85	28.69	46.00	-17.31	200	185	QP
5	775.9300	2.39	27.66	30.05	46.00	-15.95	100	302	QP
6	876.8100	2.05	28.40	30.45	46.00	-15.55	300	208	QP



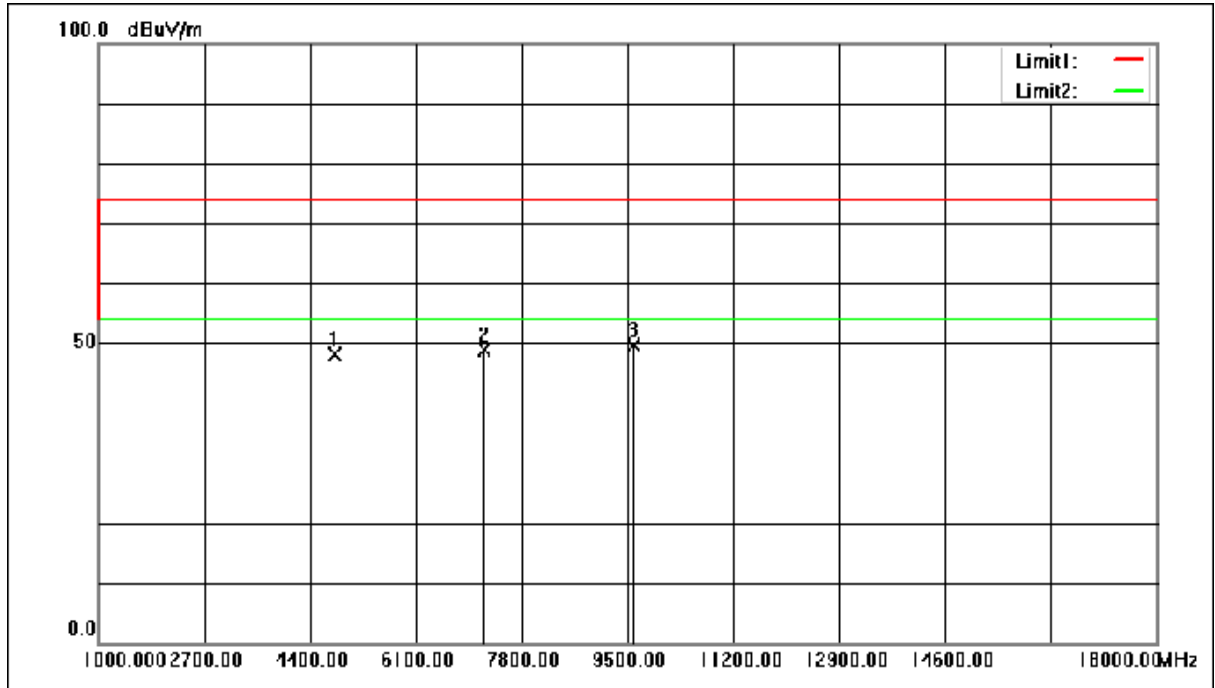
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Above 1GHz

Left Ear

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low ; Data rate:1M



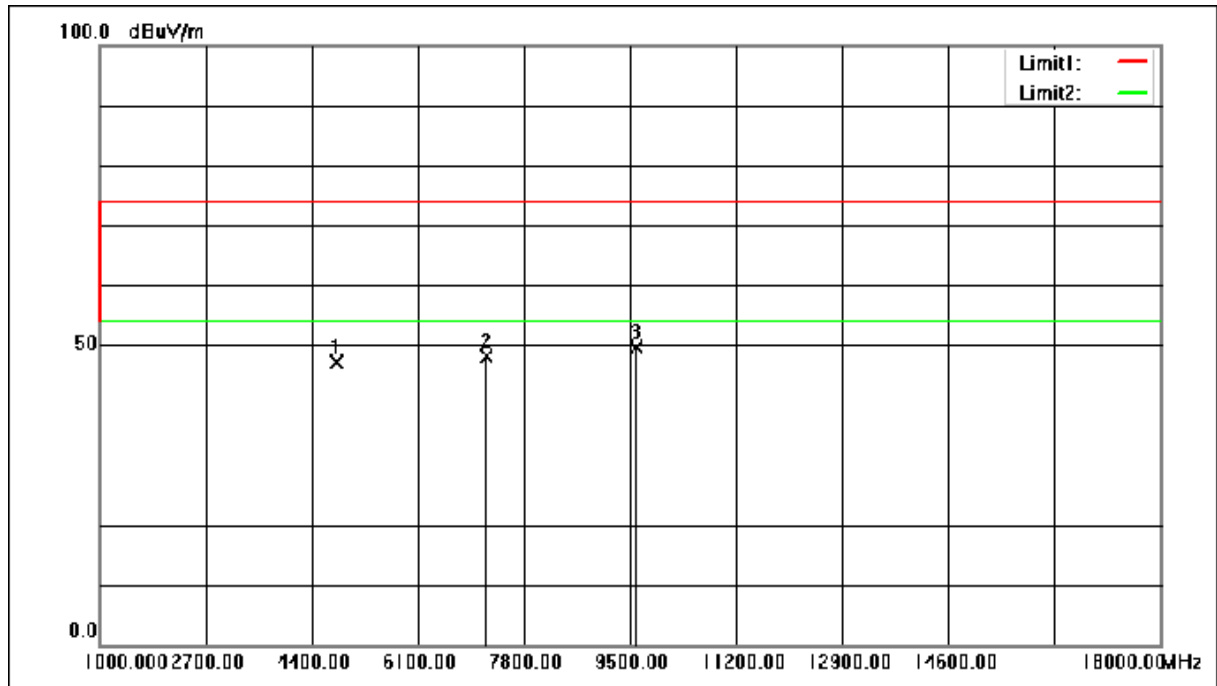
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	58.52	-10.28	48.24	74.00	-25.76	peak
2	7206.000	55.86	-7.10	48.76	74.00	-25.24	peak
3	9608.000	54.63	-4.96	49.67	74.00	-24.33	peak



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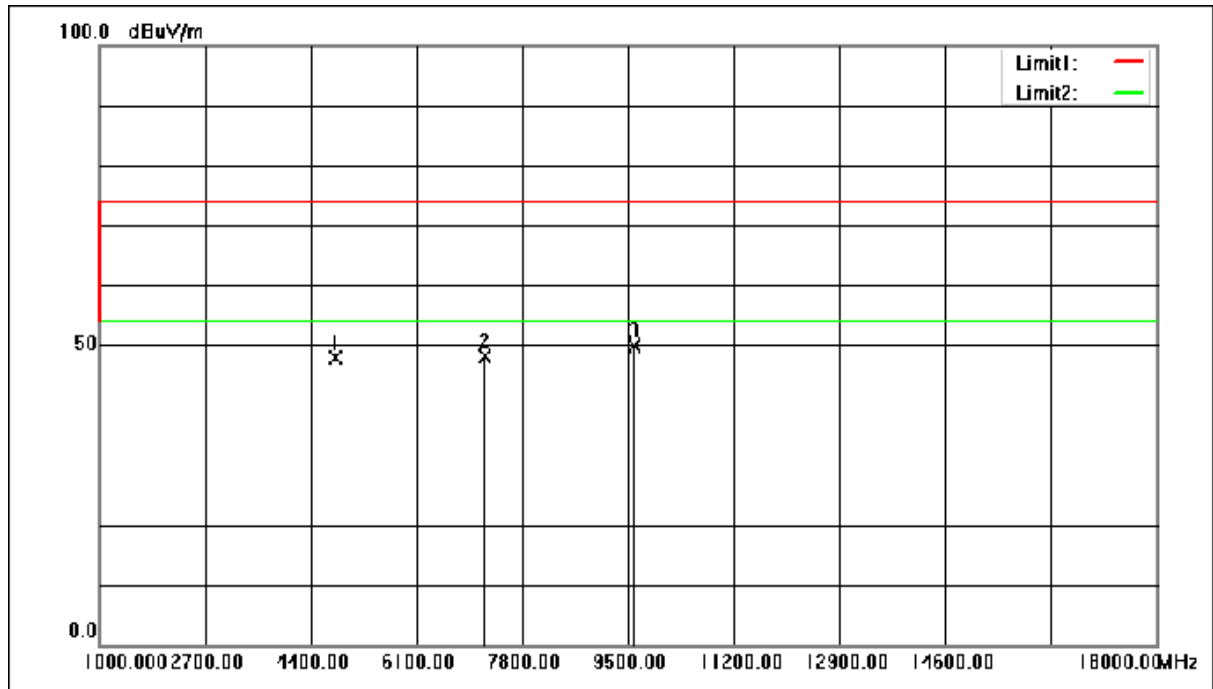
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.48	-10.28	47.20	74.00	-26.80	peak
2	7206.000	55.35	-7.10	48.25	74.00	-25.75	peak
3	9608.000	54.63	-4.96	49.67	74.00	-24.33	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low ; Data rate:1M



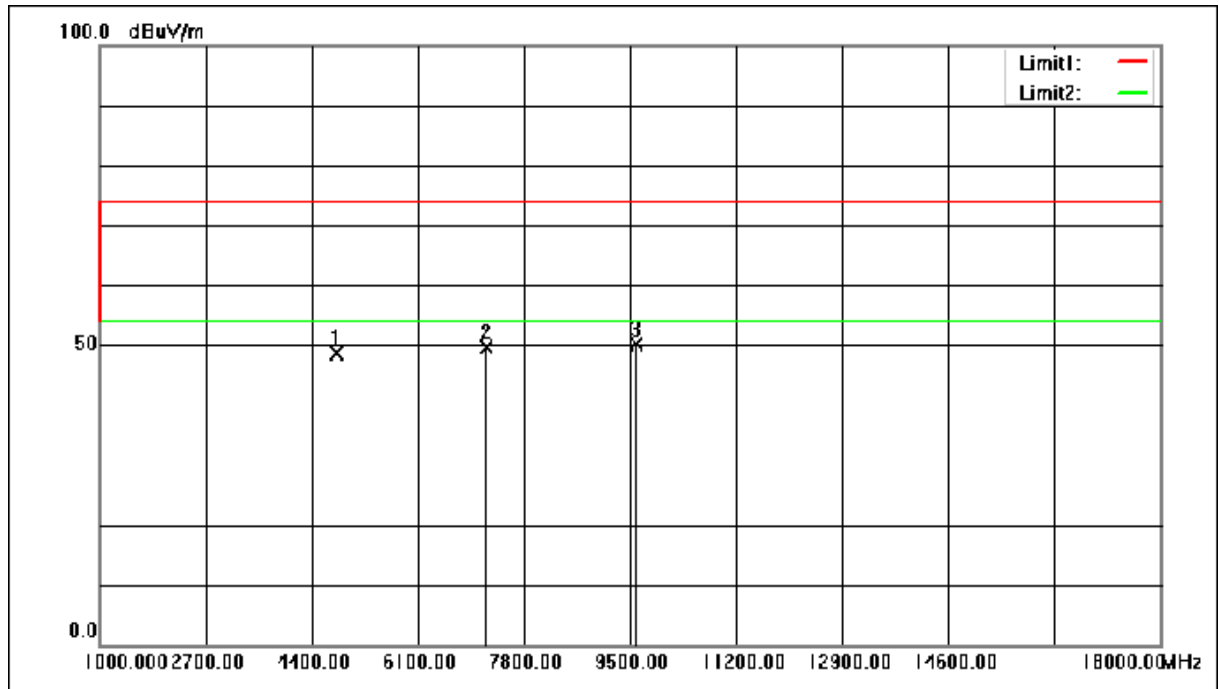
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	58.13	-10.28	47.85	74.00	-26.15	peak
2	7206.000	55.32	-7.10	48.22	74.00	-25.78	peak
3	9608.000	54.94	-4.96	49.98	74.00	-24.02	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low ; Data rate:2M



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	59.03	-10.28	48.75	74.00	-25.25	peak
2	7206.000	56.77	-7.10	49.67	74.00	-24.33	peak
3	9608.000	55.10	-4.96	50.14	74.00	-23.86	peak

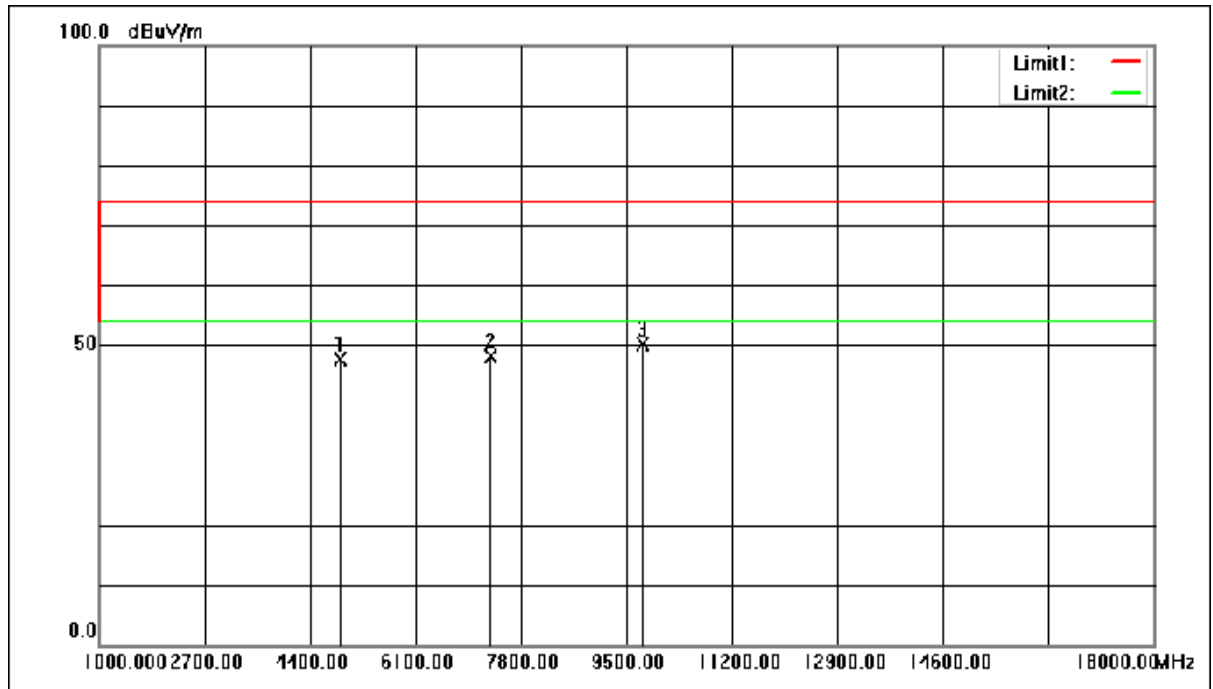


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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle ; Data rate:1M



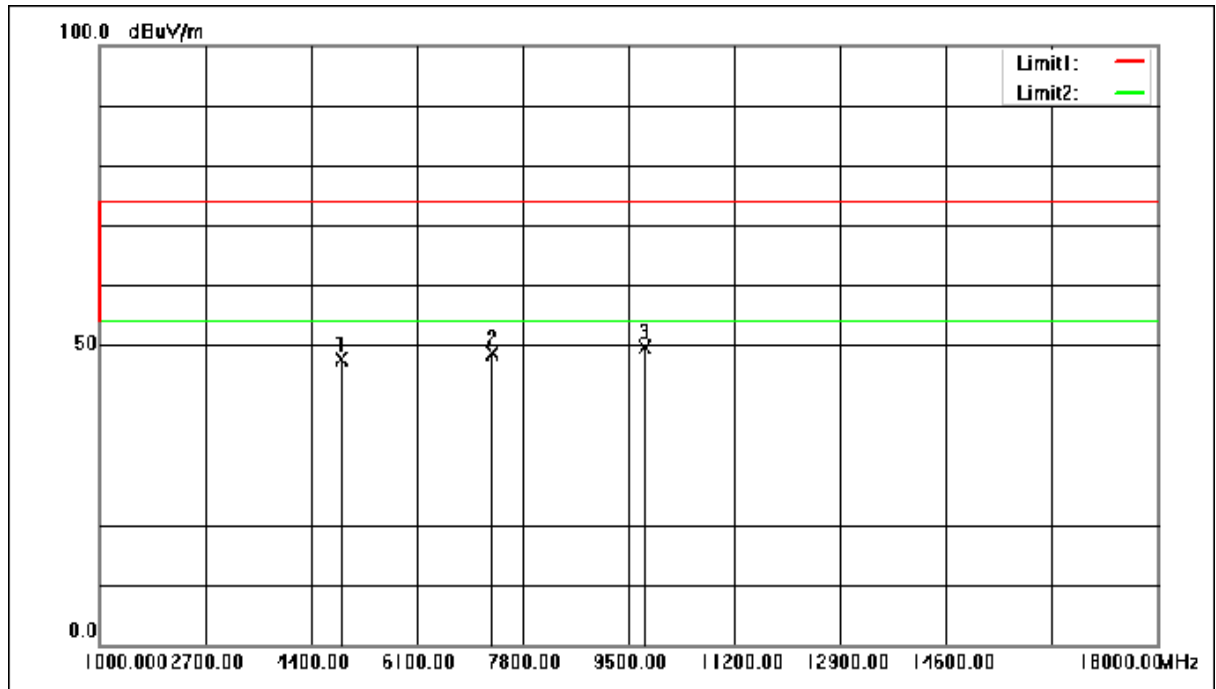
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.71	-9.99	47.72	74.00	-26.28	peak
2	7320.000	55.13	-6.91	48.22	74.00	-25.78	peak
3	9760.000	54.38	-4.25	50.13	74.00	-23.87	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle ; Data rate:2M



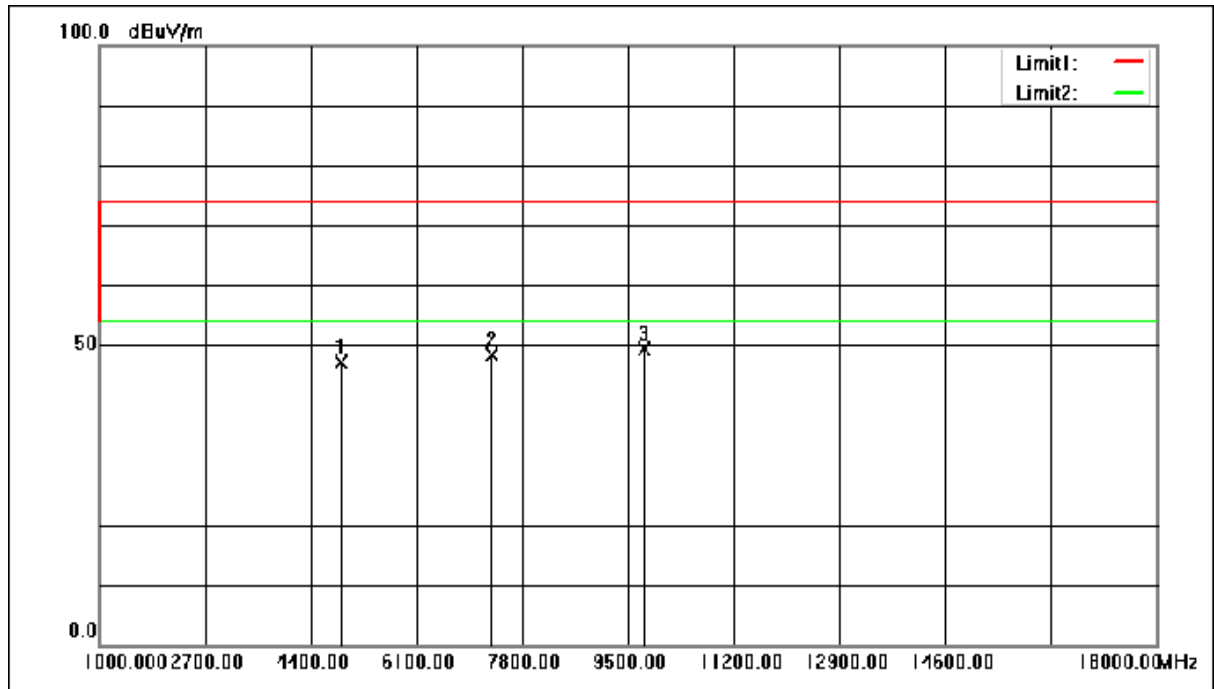
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.67	-9.99	47.68	74.00	-26.32	peak
2	7320.000	55.58	-6.91	48.67	74.00	-25.33	peak
3	9760.000	53.93	-4.25	49.68	74.00	-24.32	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle ; Data rate:1M



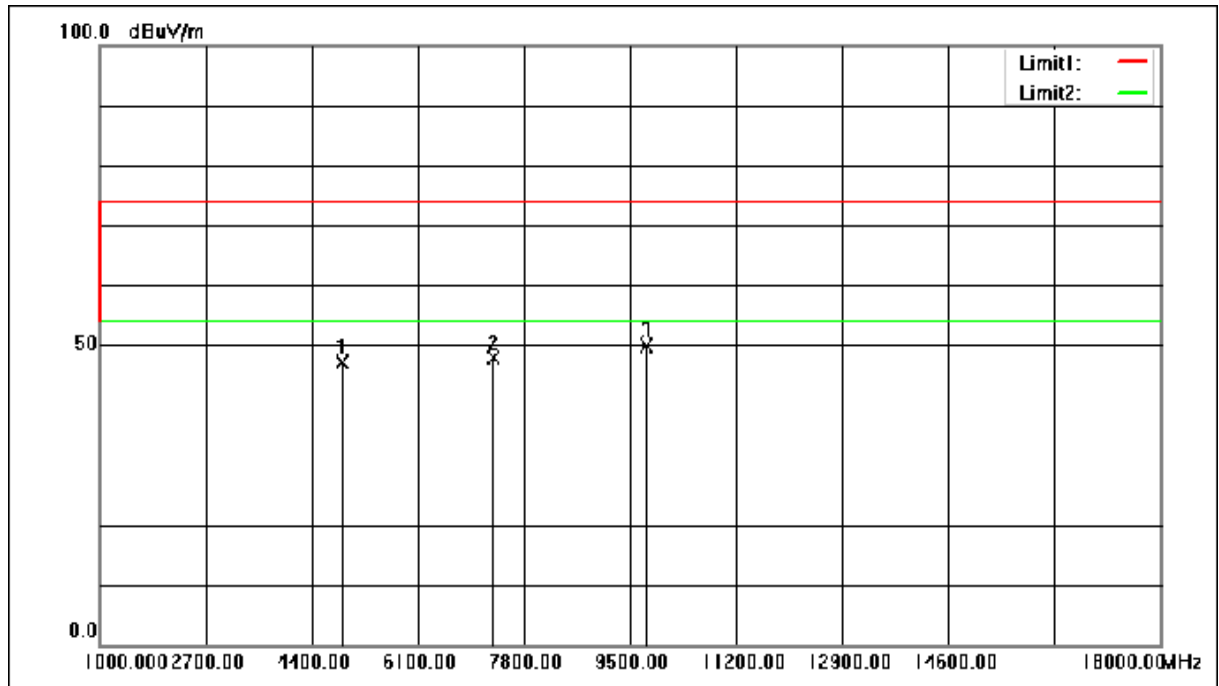
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.21	-9.99	47.22	74.00	-26.78	peak
2	7320.000	55.23	-6.91	48.32	74.00	-25.68	peak
3	9760.000	53.62	-4.25	49.37	74.00	-24.63	peak



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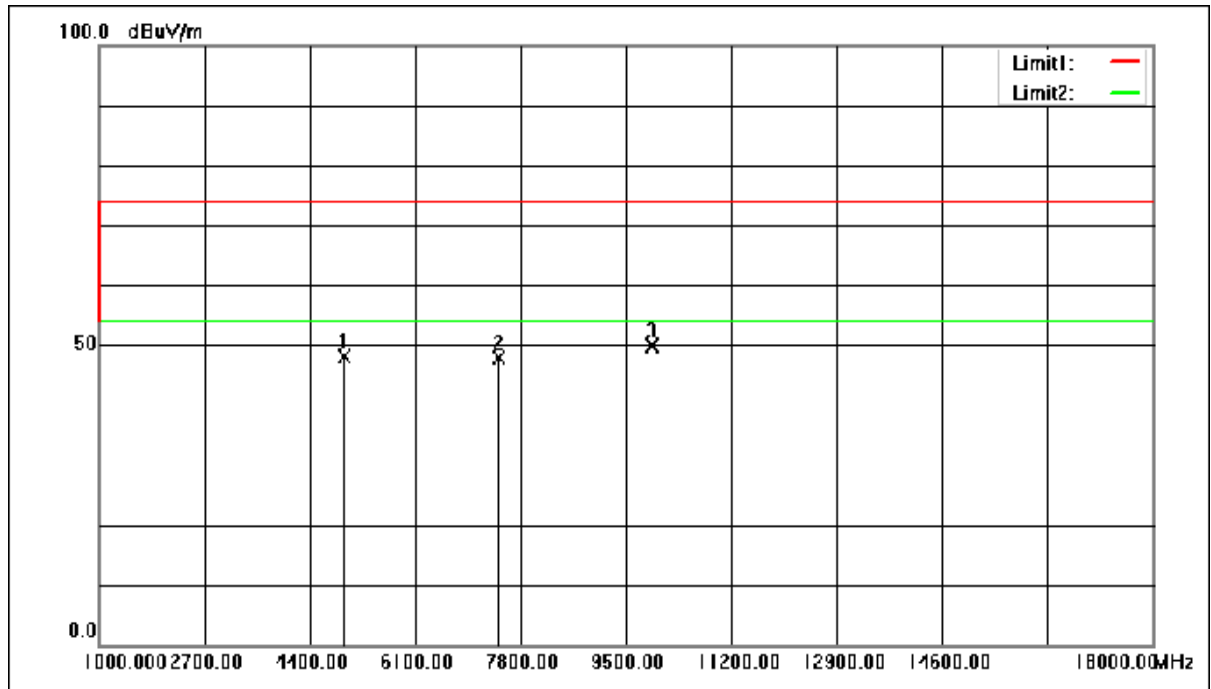
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.00	-9.99	47.01	74.00	-26.99	peak
2	7320.000	54.77	-6.91	47.86	74.00	-26.14	peak
3	9760.000	54.12	-4.25	49.87	74.00	-24.13	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High ; Data rate:1M



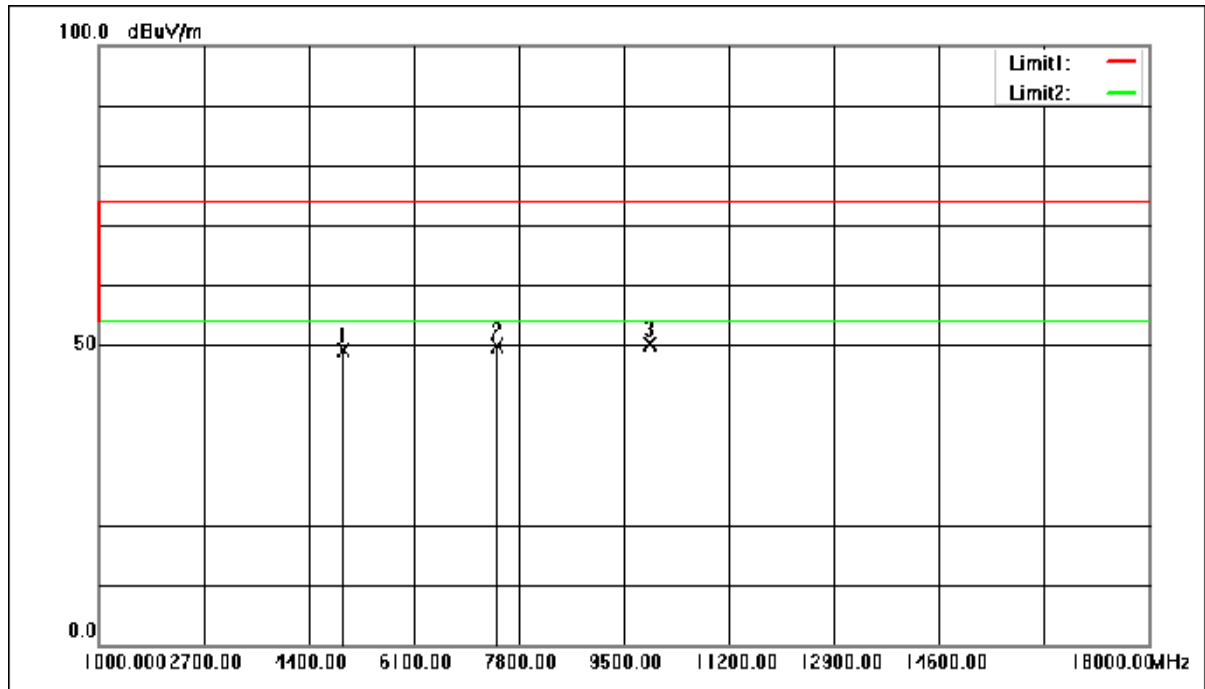
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.90	-9.68	48.22	74.00	-25.78	peak
2	7440.000	54.71	-6.72	47.99	74.00	-26.01	peak
3	9920.000	53.42	-3.50	49.92	74.00	-24.08	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High ; Data rate:2M



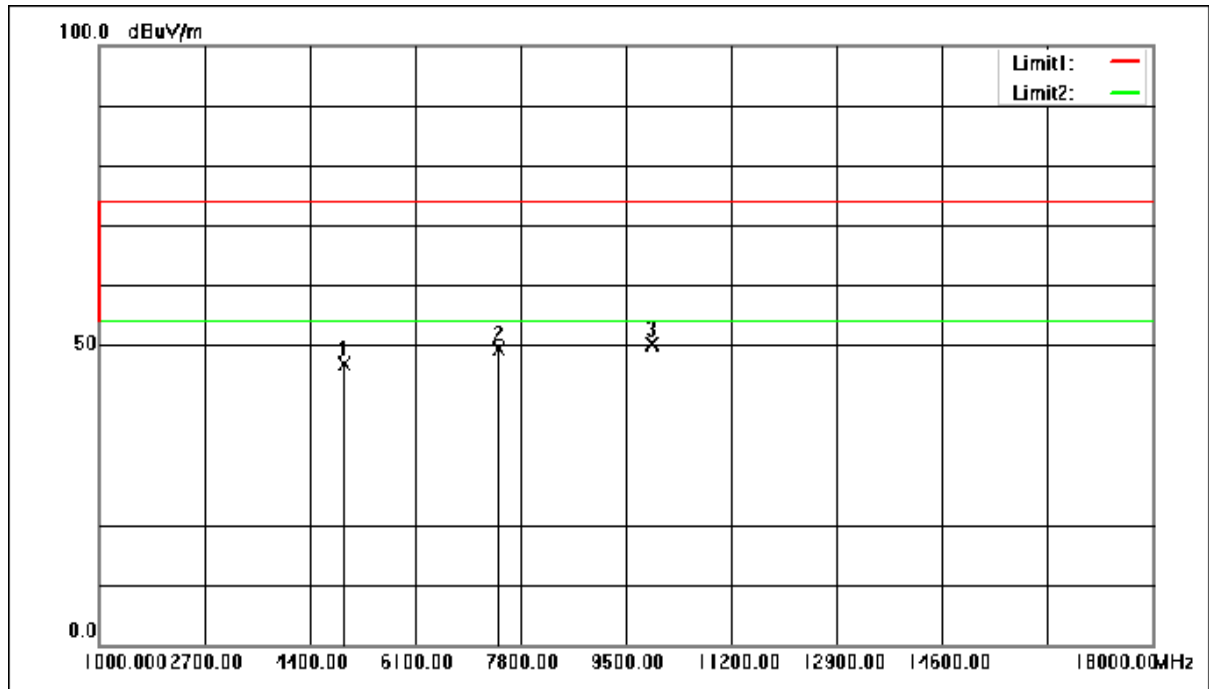
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1	4960.000	58.74	-9.68	49.06	74.00	-24.94	peak
2	7440.000	56.60	-6.72	49.88	74.00	-24.12	peak
3	9920.000	53.64	-3.50	50.14	74.00	-23.86	peak



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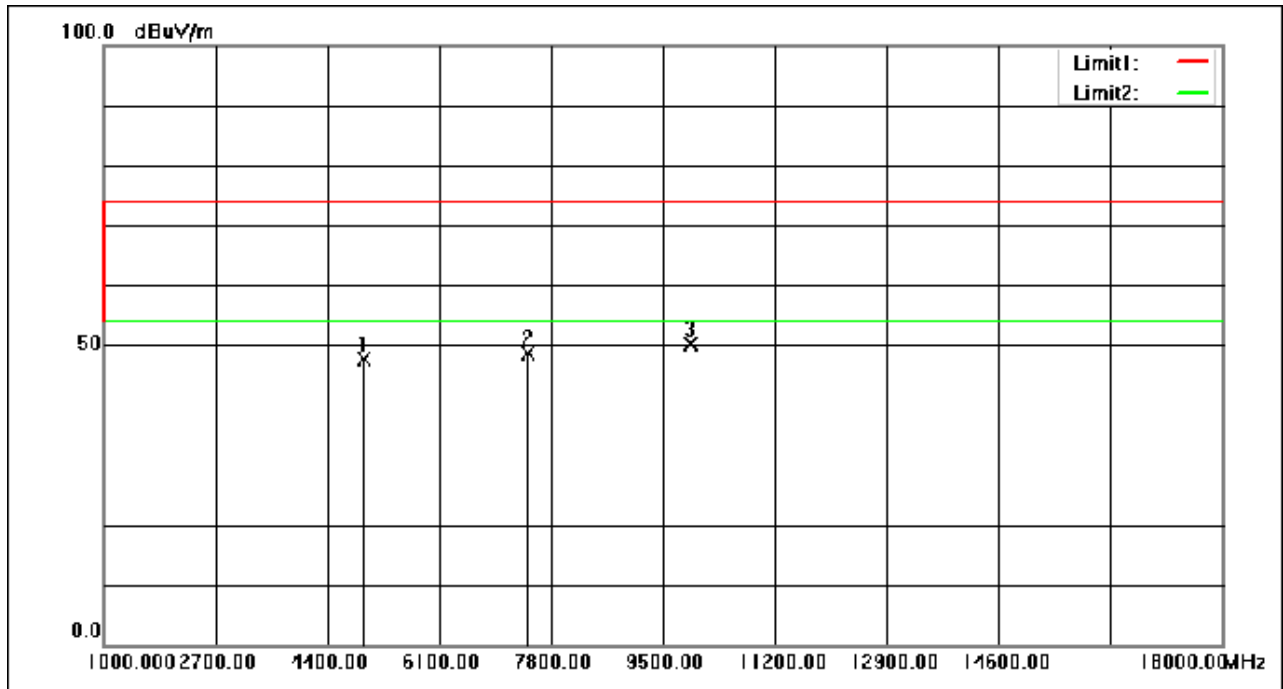
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1	4960.000	56.66	-9.68	46.98	74.00	-27.02	peak
2	7440.000	55.98	-6.72	49.26	74.00	-24.74	peak
3	9920.000	53.57	-3.50	50.07	74.00	-23.93	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High ; Data rate:2M



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.20	-9.68	47.52	74.00	-26.48	peak
2	7440.000	55.41	-6.72	48.69	74.00	-25.31	peak
3	9920.000	53.70	-3.50	50.20	74.00	-23.80	peak



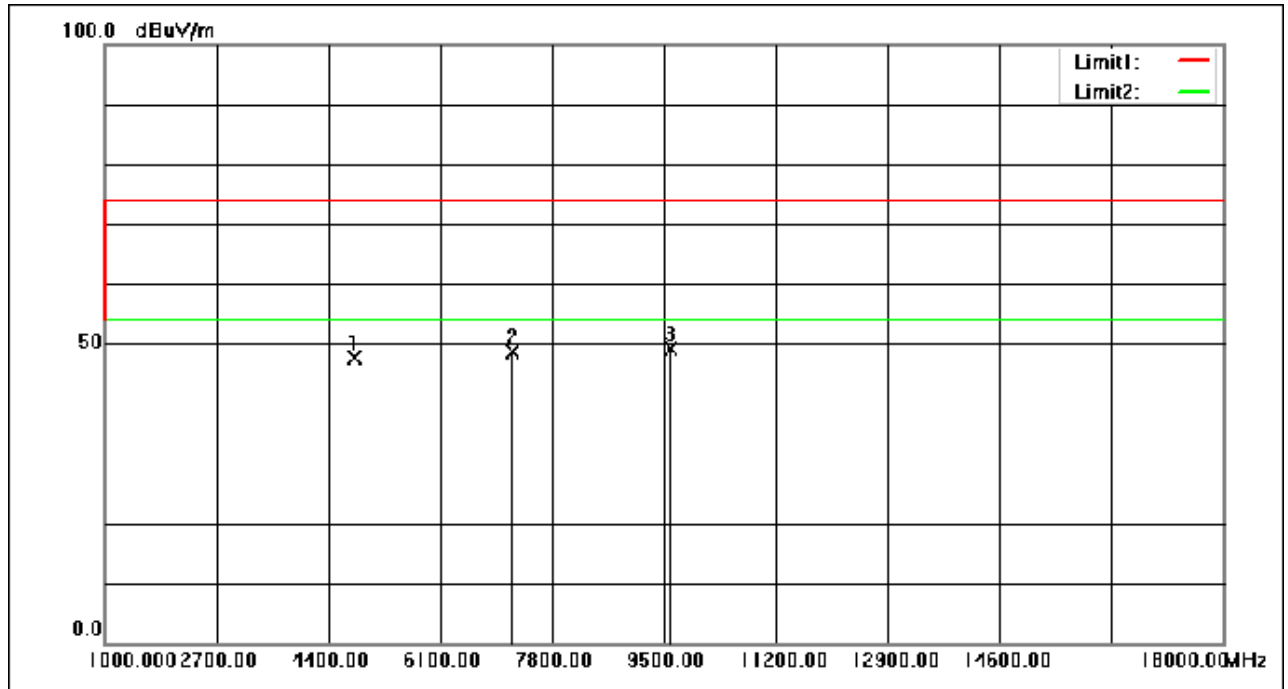
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Right Ear

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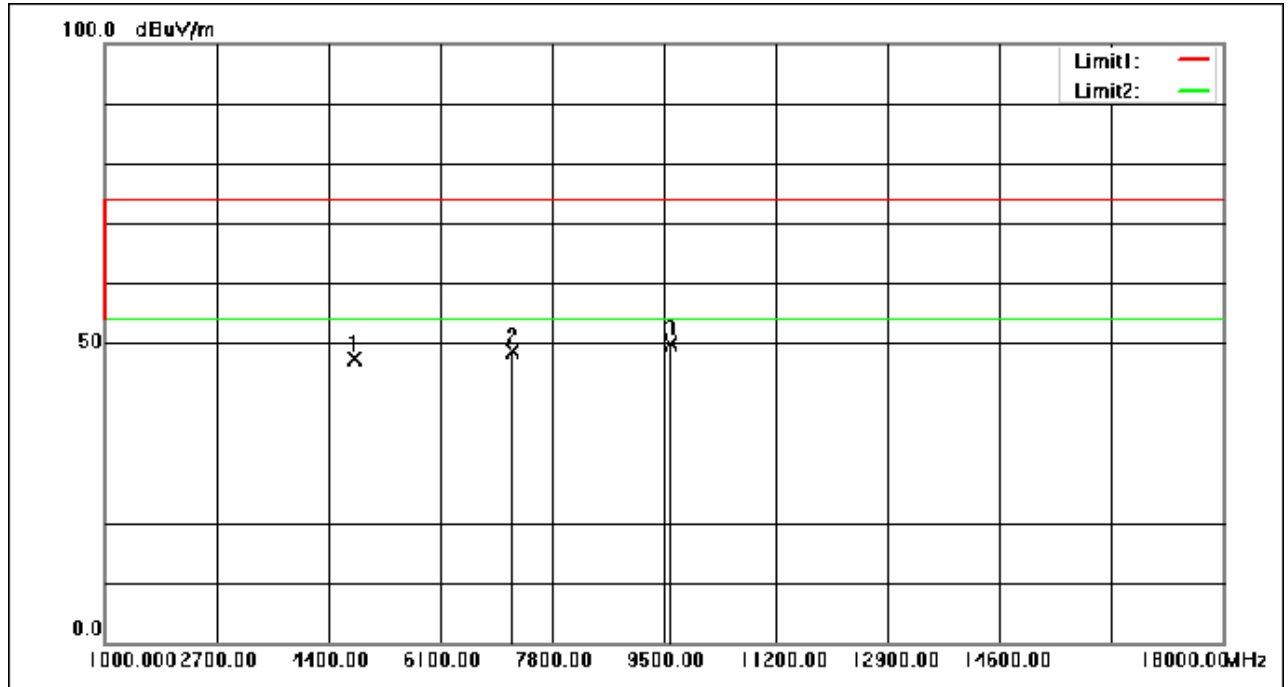
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1	4804.000	57.96	-10.28	47.68	74.00	-26.32	peak
2	7206.000	55.70	-7.10	48.60	74.00	-25.40	peak
3	9608.000	54.04	-4.96	49.08	74.00	-24.92	peak



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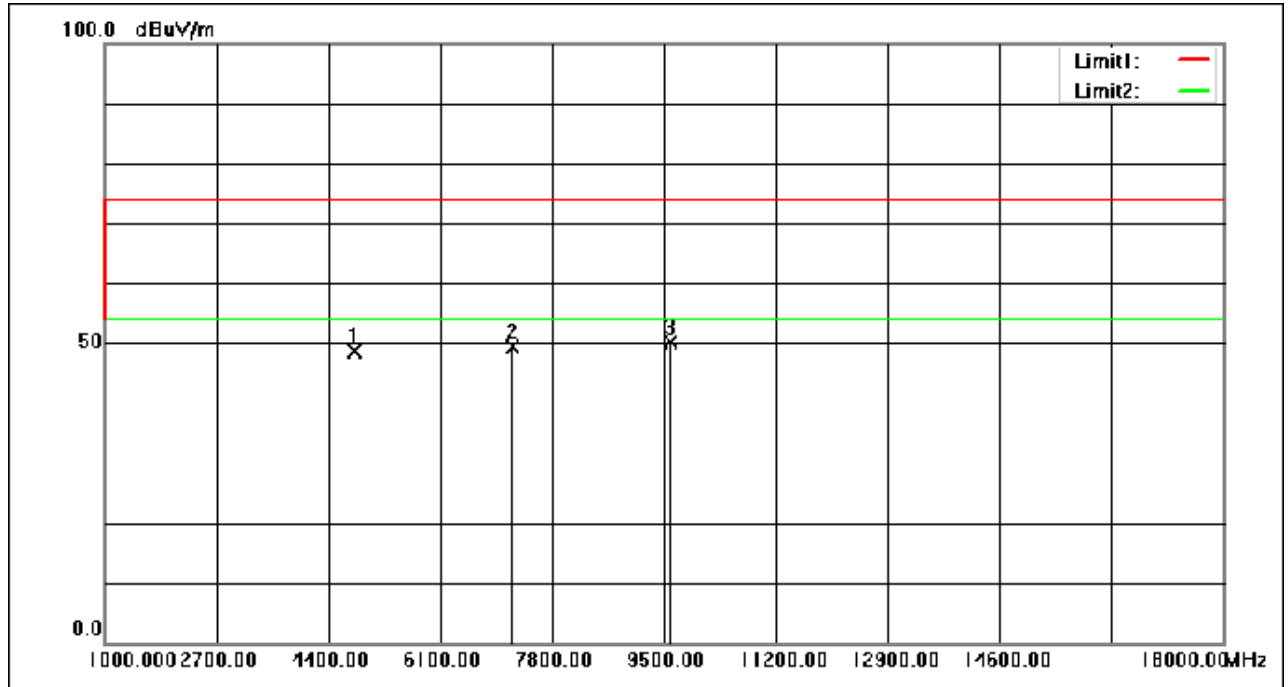
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.61	-10.28	47.33	74.00	-26.67	peak
2	7206.000	55.70	-7.10	48.60	74.00	-25.40	peak
3	9608.000	54.92	-4.96	49.96	74.00	-24.04	peak



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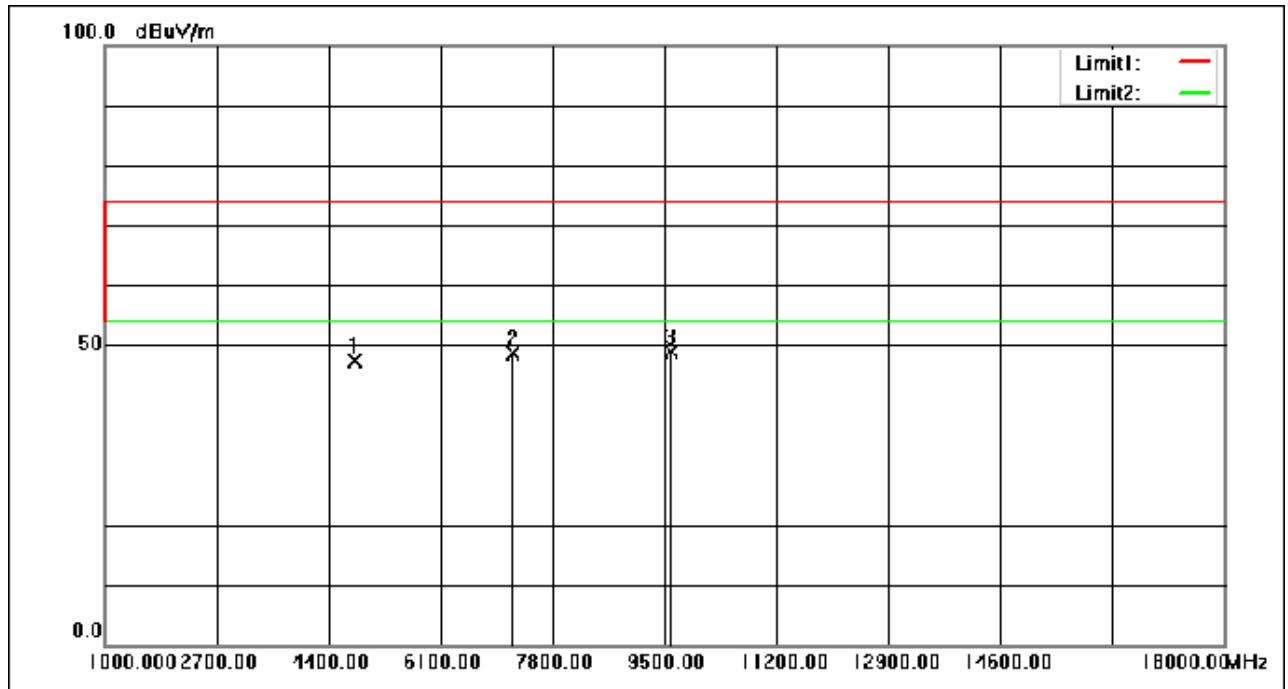
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	59.03	-10.28	48.75	74.00	-25.25	peak
2	7206.000	56.59	-7.10	49.49	74.00	-24.51	peak
3	9608.000	55.07	-4.96	50.11	74.00	-23.89	peak



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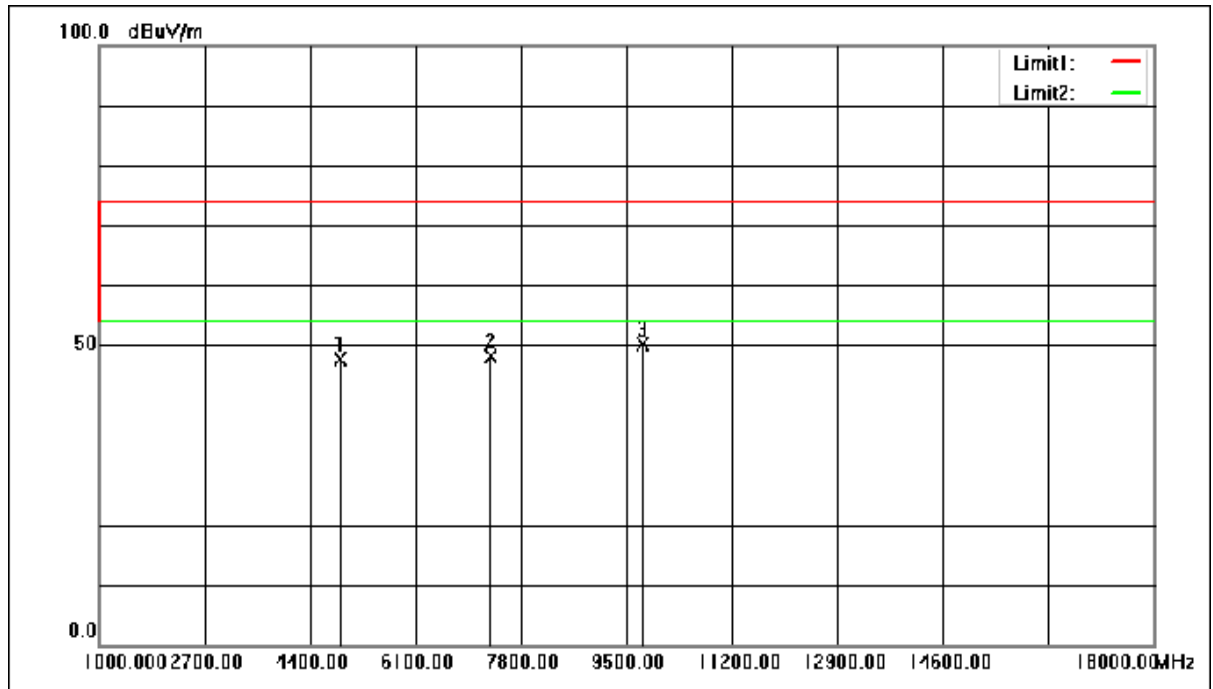
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.72	-10.28	47.44	74.00	-26.56	peak
2	7206.000	55.77	-7.10	48.67	74.00	-25.33	peak
3	9608.000	53.91	-4.96	48.95	74.00	-25.05	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle ; Data rate:1M



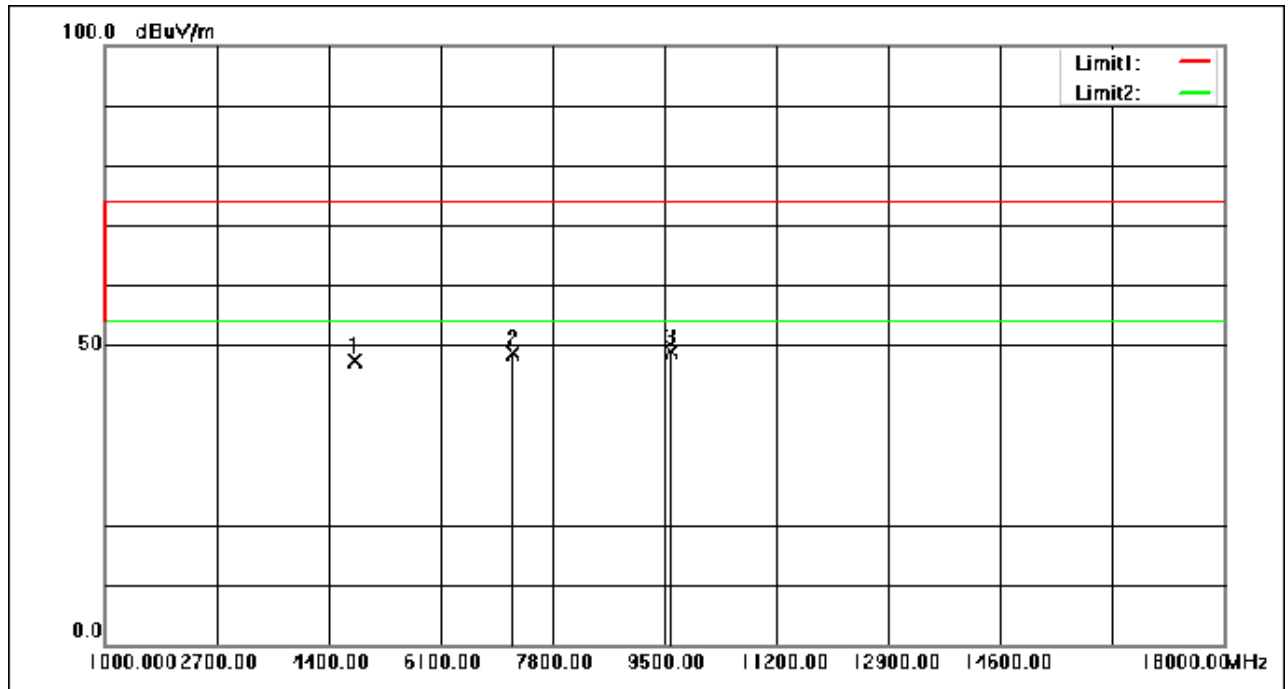
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.71	-9.99	47.72	74.00	-26.28	peak
2	7320.000	55.13	-6.91	48.22	74.00	-25.78	peak
3	9760.000	54.38	-4.25	50.13	74.00	-23.87	peak



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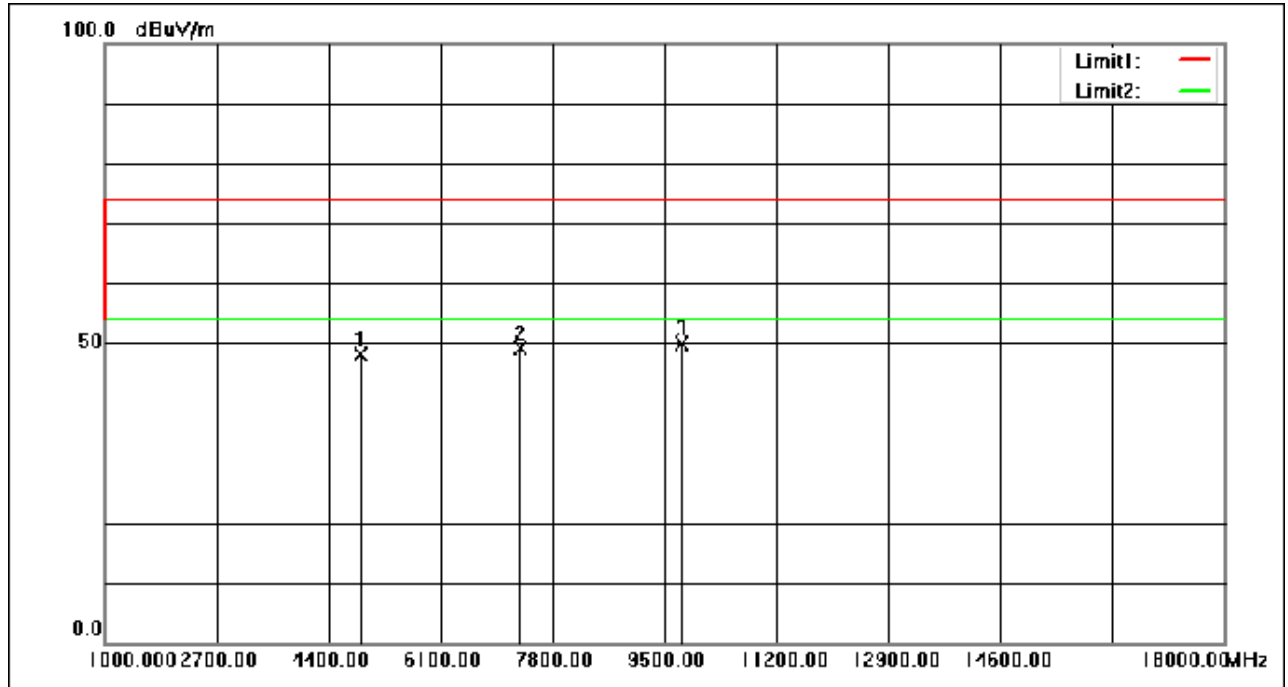
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.72	-10.28	47.44	74.00	-26.56	peak
2	7206.000	55.77	-7.10	48.67	74.00	-25.33	peak
3	9608.000	53.91	-4.96	48.95	74.00	-25.05	peak



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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle ; Data rate:1M



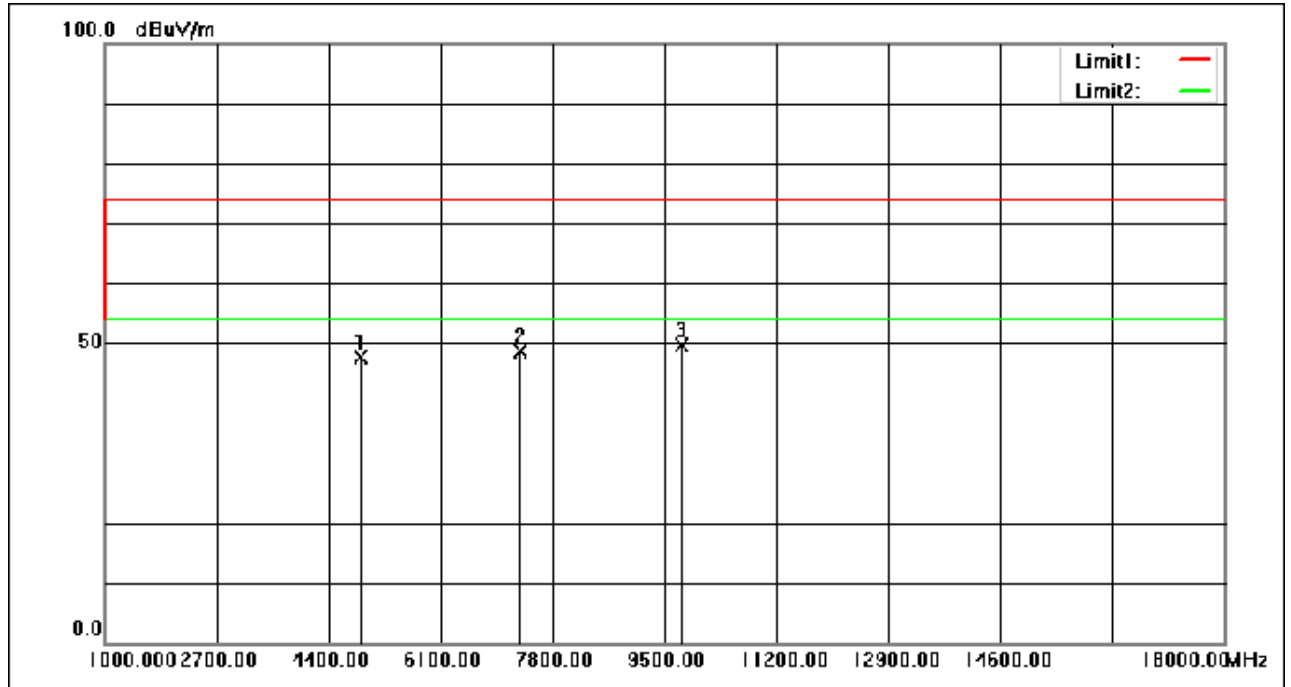
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	58.14	-9.99	48.15	74.00	-25.85	peak
2	7320.000	56.13	-6.91	49.22	74.00	-24.78	peak
3	9760.000	54.11	-4.25	49.86	74.00	-24.14	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	57.57	-9.99	47.58	74.00	-26.42	peak
2	7320.000	55.58	-6.91	48.67	74.00	-25.33	peak
3	9760.000	53.93	-4.25	49.68	74.00	-24.32	peak

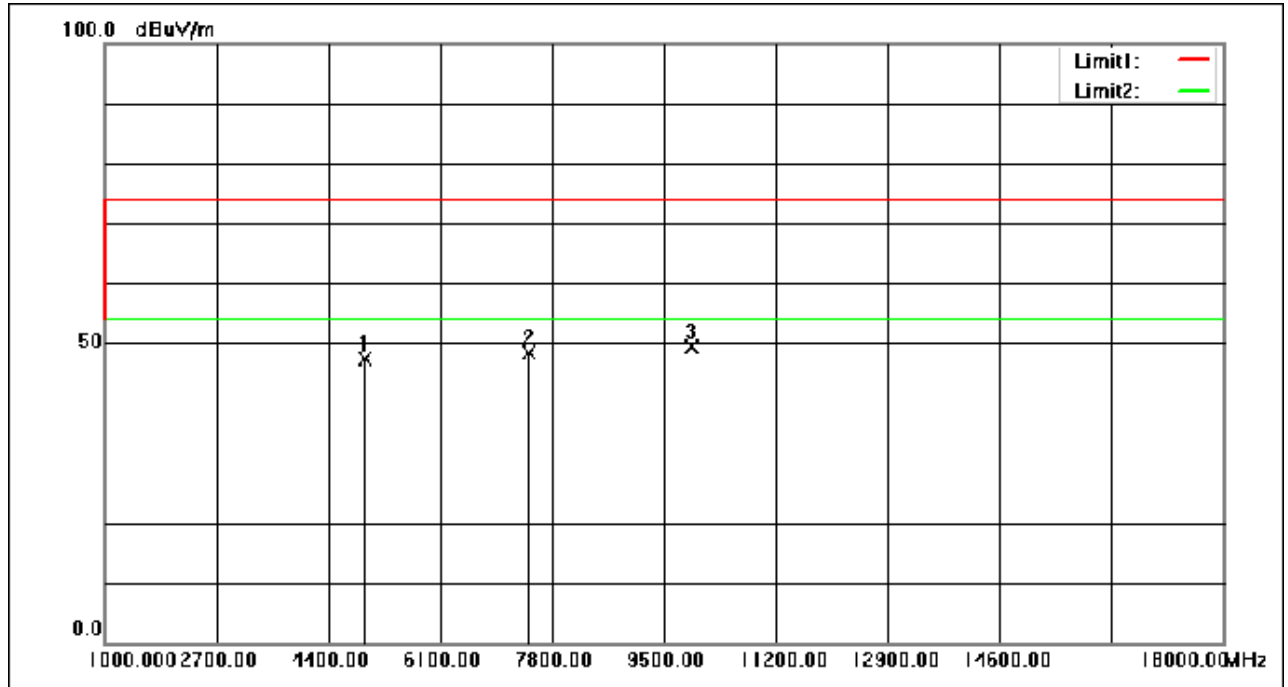


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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High ; Data rate:1M



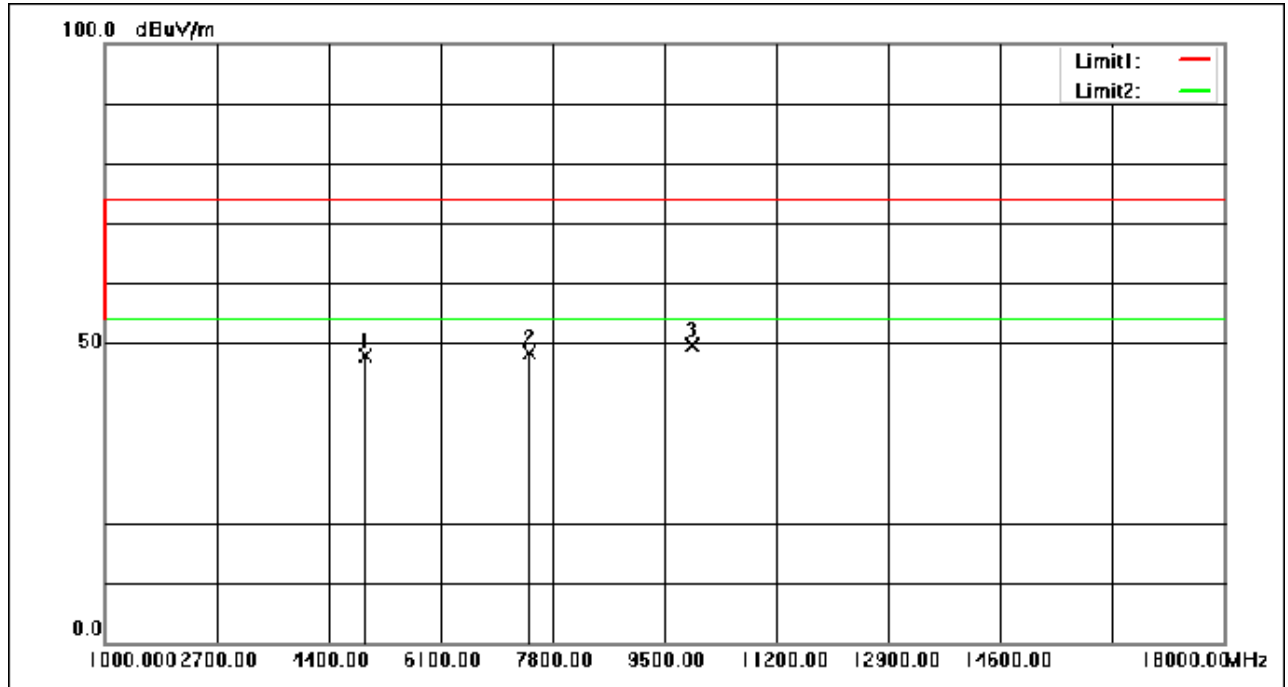
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.06	-9.68	47.38	74.00	-26.62	peak
2	7440.000	54.99	-6.72	48.27	74.00	-25.73	peak
3	9920.000	52.87	-3.50	49.37	74.00	-24.63	peak



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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High ; Data rate:2M



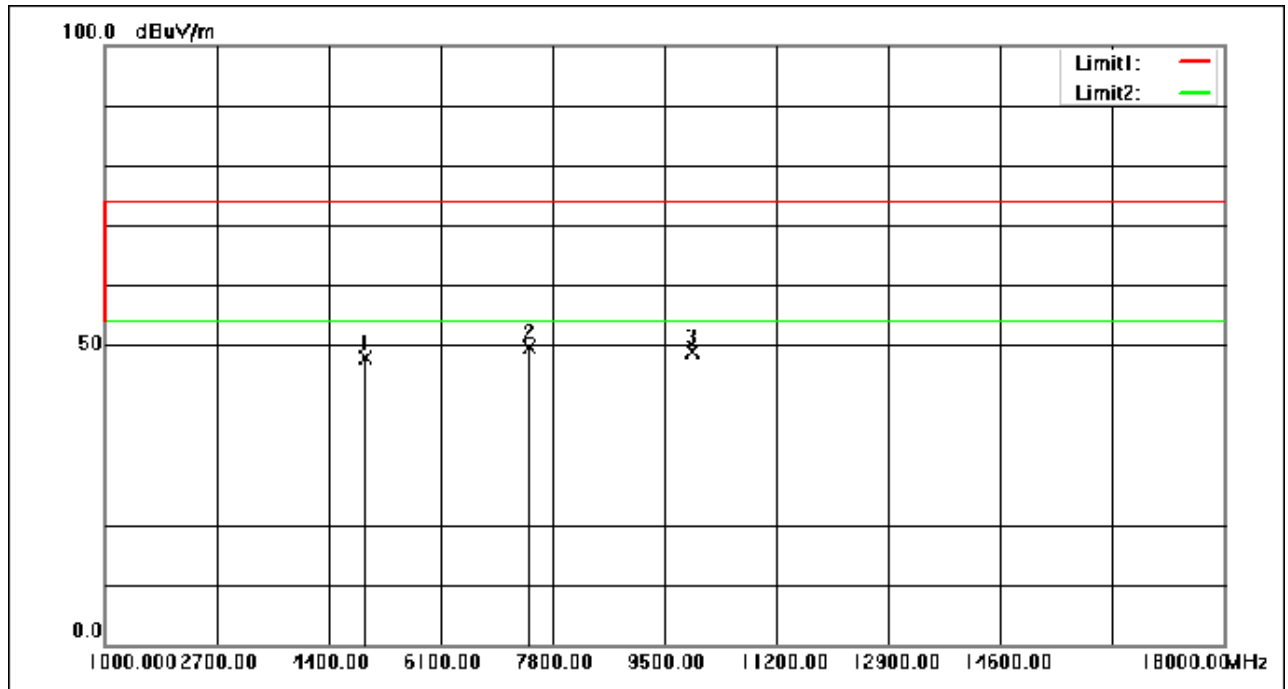
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.50	-9.68	47.82	74.00	-26.18	peak
2	7440.000	55.05	-6.72	48.33	74.00	-25.67	peak
3	9920.000	53.18	-3.50	49.68	74.00	-24.32	peak



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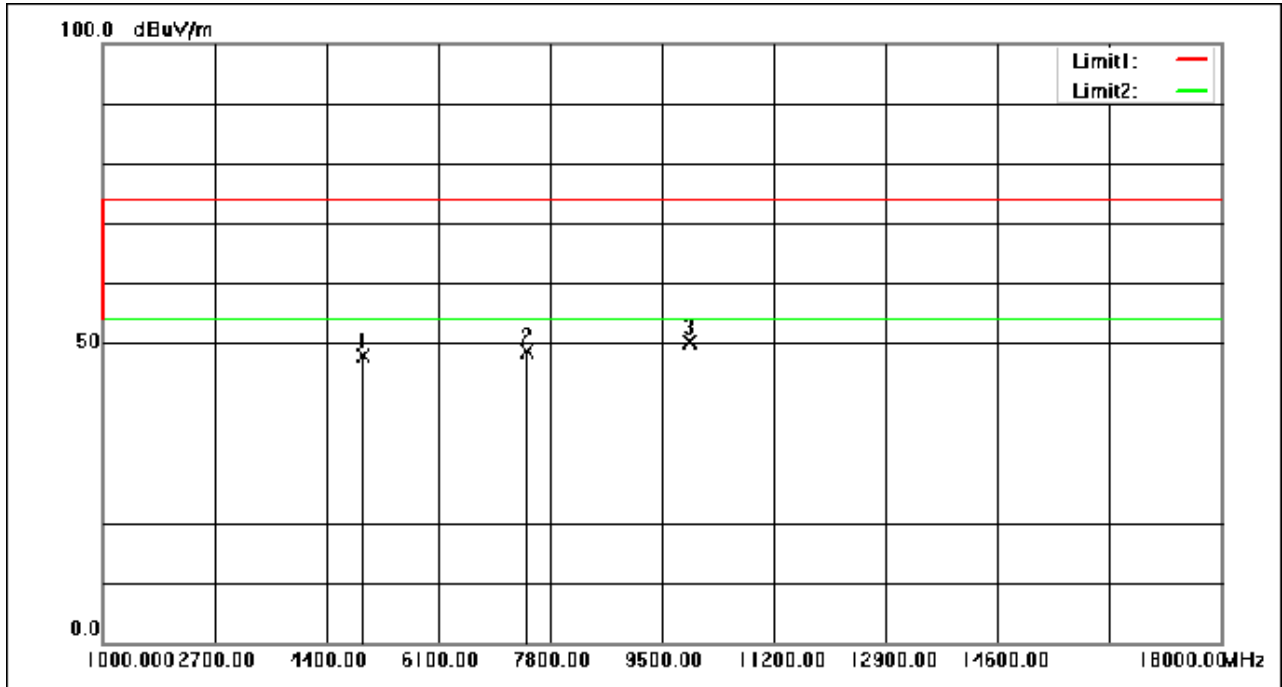
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.56	-9.68	47.88	74.00	-26.12	peak
2	7440.000	56.39	-6.72	49.67	74.00	-24.33	peak
3	9920.000	52.39	-3.50	48.89	74.00	-25.11	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.64	-9.68	47.96	74.00	-26.04	peak
2	7440.000	55.39	-6.72	48.67	74.00	-25.33	peak
3	9920.000	53.58	-3.50	50.08	74.00	-23.92	peak



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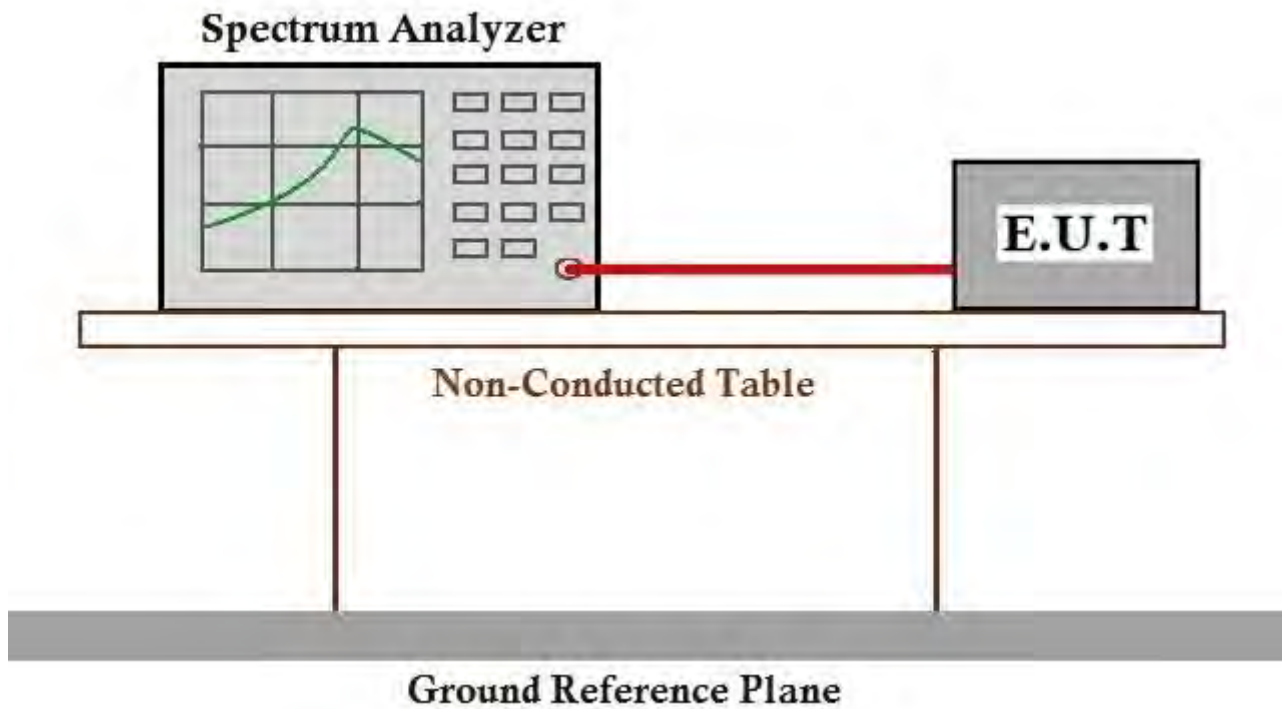
### 7.8 99% Bandwidth

Test Requirement RSS-Gen Section 6.7  
 Test Method: ANSI C63.10 Section 6.9.3

#### 7.8.1 E.U.T. Operation

Operating Environment:  
 Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1004 mbar  
 Test mode c:TX mode\_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

#### 7.8.2 Test Setup Diagram



#### 7.8.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM210300243502-BLE-L  
 Appendix D for SHEM210300243502-BLE-R



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

## 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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