



Eurofins ETS Product Service (HK) Co., Ltd.

TEST - REPORT

47 CFR part 15.247

Test report no.: H1M20803-6695-P-15

FCC ID: UGCM20

Accredited Laboratory by:



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Annex: B – RF power output conducted	Number of Pages	2
Annex: C – RF power output radiated (EIRP)	Number of Pages	0
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Annex: L – Receiver radiated emissions	Number of Pages	28

1. General information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The tests were carried out and passed in accordance to the standards:

47 CFR part 15.247

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification (only telecommunication products).

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.6.

The test report may only be reproduced or published in full.

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1.2 Tester

29.04.2008

Mr. J. Sin



Date

Name

Signature

Technical responsibility for area of testing:

29.04.2008

Mr. F. Schulz



Date

Name

Signature

Test Report No.: H1M20803-6695-P-15

1.3 Testing laboratory

1.3.1 Location

Name : : Eurofins ETS Product Service (HK) Co., Ltd.
Street : : 26/F., Tamson Plaza, 161 Wai Yip Street
Town : : Kwun Tong, Kowloon
Country : : Hong Kong
Telephone : : +852 2389 2200
Fax : : +852 2389 3073

Note: Test environment and test equipment available in accordance to ISO/IEC/EN 17025 requirements. Accreditation certificates for confirmation can be shown on request.

1.3.2 Details of accreditation status

A2LA Accredited Testing Laboratory

Testing Cert# 1983.03

1.3.3 Test location, where different (where different as specified in 1.3.1)

Name : : Eurofins ETS Product Service GmbH
Street : : Storkower Str. 38C
Town : : D-15526 Reichenwalde b. Berlin
Country : : Germany
Telephone : : +49 33631 888 0
Fax : : +49 33631 888 660

Note: Radiated emission tests were performed in accordance to the equivalent standard ANSI C63.4-2003 and under ISO/IEC/EN 17025 requirements. Accreditation certificates for confirmation can be shown on request.

1.3.4 Details of accreditation status

DAR Accredited Testing Laboratory

DAR-Registration number: DAT-P-201/96

A2LA Accredited Testing Laboratory

Testing Cert# 1983.01

FCC registered measurement facility

Reg. No. 96970

Conformity Assessment Body (USA)

B-NetzA-CAB-02/21-103

1.4 Details of applicant

Name : Argard Co., Ltd.
Street : 91/1 Chaiyo Building, 10th Floor, Unit 1003, Rama 9 Rd.

Town : Huaykwang, Bangkok 10310
Country : Thailand
Telephone : +66(2)2488560
Fax :

Contact : Rachata Chol.thumsakul
Telephone : +66(2)2488560

1.5 Application details

Date of receipt of application : 19.03.2008
Date of receipt of test item : 19.03.2008
Date of test : 26.03.2008 - 29.04.2008

1.6 Test item

1.6.1 Description of test item

Type of product : Bluetooth Headset
Type identification : M20
Brand name : ARGARD
Details of power supply : 3,7VDC rechargeable Li ION battery
Antenna Type : Integral antenna
Operating mode : Duplex
Type of modulation : FHSS

Frequency band : 2400 – 2483.5 MHz

Frequency Channel 0 : 2402 MHz
Frequency Channel 39 : 2441 MHz
Frequency Channel 78 : 2480 MHz

Photos : Please find in Appendix A.

1.6.2 Manufacturer

Name : Gerneral Electronics International Co., Ltd.
Street : 1/46 M.5 Rojana Rd., T.Khanham

Town : A.Uthai Ayutthaya
Country : Thailand 13210

Contact : Auncha Laimek
Phone : +6635330930

1.7 Test standards

47 CFR Part 15.247

Additional information: The test sample is designed as Bluetooth device. Its pseudorandom hopping scheme, authentication, receiver parameters, synchronization procedure and other parameters are determined by Bluetooth Core Specification.

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified in 2.4 were ascertained in the course of the tests performed. ☐

2.2 Test environment

Temperature:	21 ... 25 °C
Relative humidity content	30 ... 60 %
Air pressure:	860 ... 1030 hPa

2.3 Test equipment utilized

No.	Test equipment	Type	Manufacturer
ETS 0012	Biconical Antenna	HK 116	R & S
ETS 0013	LPD Antenna	HL 223	R & S
ETS 0014	Log Periodical Antenna	HL 025	R & S
ETS 0015	Log Periodical Antenna	HL 025	R & S
ETS 0031	Turn table	DS 412	Heinrich Deisel
ETS 0032	Controller	HD 050	Heinrich Deisel
ETS 0046	Power supply	2224.7	Statron
ETS 0253	Spectrum Analyzer	FSIQ 26	R & S
ETS 0271	Spectrum Analyzer	FSEK 30	R & S
ETS 0288	Artificial mains	ESH2-Z5	R & S
ETS 0294	Biconical antenna	HK 116	R & S
ETS 0295	LPD antenna	HL 223	R & S
ETS 0310	Anechoic chamber	AC 3	Frankonia
ETS 0311	Anechoic chamber	AC 4	Frankonia
ETS 0355	high pass	H03G12G3	Microwave
ETS 0357	high pass	H08G18G3	Microwave
ETS 0416	Power Supply	EX752M	TTi
ETS 0420	Amplifier 0.1-1 GHz	M/N AM-1331	MITEQ
ETS 0421	Amplifier 1-4 GHz	AFD3-010040-15-LN	MITEQ
ETS 0422	Amplifier 4-8 GHz	DBS-0408N423	Narda
ETS 0423	Amplifier 8-18 GHz	DWT-18057	Narda
ETS 0424	Amplifier 18-26.5 GHz	DBS-1826N515	Narda
ETS 0474	EMI Test Receiver	ESCS 30	R&S
ETS 0484	Radio Communication Tester	CMU 200	R&S

2.4 Test results

☒ 1st test

☐ test after modification

☐ production test

SECTION	TEST	FCC PART	Required	Test passed	Test failed
3	<i>TRANSMITTER PARAMETERS</i>				
3.1	RF power output conducted	15.247 (b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.2	RF power output radiated (EIRP)	15.247 (b)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3	20dB bandwidth	15.247 (a)(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.4	Time of occupancy (dwell time)	15.247 (a)(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.5	Number of hopping channels	15.247 (a)(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.6	Carrier frequency separation	15.247 (a)(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.7	Spurious emission conducted	15.247 (d)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.8	Spurious emission radiated	15.247 (d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.9	Band-edge compliance	15.247 (d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.10	AC power line conducted emissions	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	<i>RECEIVER PARAMETERS</i>				
4.1	Radiated emissions	15.107	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3 Transmitter parameters

3.1 RF power output, conducted

Reference

FCC	47 CFR part 15.247 (b)
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Method of measurement

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

Limits

Frequency band	FCC
5725 - 5850 MHz	1 Watt (30 dBm) for systems with ≥ 75 hopping channels
2400 - 2483.5 MHz	1 Watt (30 dBm) for systems with ≥ 75 non - overlapping hopping channels 0.125 Watt (21 dBm) for all other hopping systems, but at least 15 hopping channels
902 - 928 MHz	1 Watt (30 dBm) for systems with ≥ 50 hopping channels 0.25 Watt (24 dBm) for all other hopping systems, but at least 25 hopping channels

Test results

Test conditions	Channel 0	Channel 39	Channel 78
	[dBm]	[dBm]	[dBm]
$T_{\text{nom}} = 25^{\circ}\text{C}$ $V_{\text{nom}} = 3.7\text{V DC}$	5.60	5.01	4.24
Measurement uncertainty	< 3 dB		

Remark: see attached diagrams in Appendix B.

3.2 RF power output, radiated

Reference

FCC	47 CFR part 15.247 (b)
-----	------------------------

Method of measurement

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

Limits

Frequency band	FCC
5725 - 5850 MHz	4 Watt (36 dBm) for systems with ≥ 75 hopping channels.
2400 - 2483.5 MHz	4 Watt (36 dBm) for systems with ≥ 75 non – overlapping hopping channels 0.631 Watt (28 dBm) for all other hopping systems, but at least 15 hopping channels
902 - 928 MHz	4 Watt (36 dBm) for systems with ≥ 50 hopping channels 1.585 Watt (32 dBm) for all other hopping systems, but at least 25 hopping channels
FCC	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.

Test Results

Test conditions	Channel	Channel	Channel
	EIRP [dBm]	EIRP [dBm]	EIRP [dBm]
$T_{\text{nom}} = \text{ } ^\circ\text{C}$ $V_{\text{nom}} = \text{ } \text{V}$	--	--	--
Measurement uncertainty	< 3 dB		

Remark: not required.

3.3 20 dB bandwidth

Reference

FCC	CFR part 15.247 (a)(1)
-----	------------------------

Method of measurement

The 20 dB bandwidth is measured on the lowest, middle and highest hopping channel.

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Limits

Frequency band	FCC
5725 - 5850 MHz	≤ 1 MHz
2400 - 2483.5 MHz	\leq carrier frequencies separation for hopping systems with max cond. power of 1 Watt ≤ 1.5 of the carrier frequencies separation for hopping systems with max cond. power of 0.125 Watt
902 - 928 MHz	< 250 kHz for systems with ≥ 50 hopping channels $250 \text{ kHz} \leq 500 \text{ kHz}$ for all other hopping systems

Test results

Test conditions	Channel 0	Channel 39	Channel 78
	[kHz]	[kHz]	[kHz]
$T_{\text{nom}} = 25^{\circ}\text{C}$ $V_{\text{nom}} = 3.7\text{V DC}$	912.6252	912.6255	917.0340
Measurement uncertainty	< 3 dB		

Remark: see attached diagrams in Appendix D.

3.4 Time of occupancy (dwell time)

Reference

FCC	CFR part 15.247 (a)(1)
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Method of measurement

The EUT has its hopping function enabled.

Spectrum analyzer settings:

Span: zero span, centered on hopping channel

RBW: 1 MHz

VBW: > RBW

Sweep: as necessary to capture the entire dwell time per hopping channel

Detector: peak

Trace: max hold

Limits

Frequency band	FCC
5725 - 5850 MHz	$\leq 0,4$ s at measurement period of 30 seconds
2400 - 2483.5 MHz	$\leq 0,4$ s multiplied by the number of hopping channels employed
902 - 928 MHz	$\leq 0,4$ s at measurement period of 20 seconds for max 250 kHz 20 dB BW allowed $\leq 0,4$ s at measurement period of 10 seconds for max 500 kHz 20 dB BW allowed

Test results

Test conditions	Operating mode	Measurement period	Time of occupancy
		[s]	[ms]
$T_{nom} = 25^{\circ}C$ $V_{nom} = 3.7V$ DC	normal transmitting	31.6	229.876
	inquiry mode	12.8	31.5451
Measurement uncertainty	$< 1 \mu s$		

Remark: see attached diagrams in Appendix E.

3.5 Number of hopping channels

Reference

FCC	CFR part 15.247 (a)(1)
-----	------------------------

Method of measurement

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400 - 2483.5 MHz and 5725 - 5850 MHz bands shall use at least 75 hopping frequencies.

According to FCC 00-312 appendix B systems in the 2400 – 2483.5 MHz band may utilize hopping channels whose 20 dB bandwidth is greater than 1 MHz provide the systems use at least 15 non-overlapping channels.

Limits

Frequency band	FCC
5725 - 5850 MHz	≥ 75 hopping channels
2400 - 2483.5 MHz	≥ 75 hopping channels for >0.125 Watt ≥ 15 hopping channels for ≤0.125 Watt
902 - 928 MHz	≥ 50 hopping channels for >0.25 Watt ≥ 25 hopping channels for ≤0.25 Watt

Test results

Test conditions	Operating mode	Number of channel
T _{nom} = 25° C V _{nom} = 3.7V DC	Normal transmitting	79
	Inquiry mode	32

Remark: see attached diagrams in Appendix F.

3.6 Carrier frequency separation

Reference

FCC	CFR part 15.247 (a)(1)
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Method of measurement

Carrier frequency separation was measured with modulation (declared by manufacturer)

Limits

Frequency band	FCC
5725 - 5850 MHz	minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater, but ≤ 1 MHz
2400 - 2483.5 MHz	minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater minimum of 25 kHz or 2/3 of the 20 dB bandwidth of the hopping channel, whichever is greater, for $P_{out} \leq 0.125$ W
902 - 928 MHz	minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater

Test results

Test conditions	Channel 39	Channel Separation
	[GHz]	[kHz]
$T_{nom} = 25^{\circ}C$ $V_{nom} = 3.7V$ DC	2.441	996.39278557
Measurement uncertainty	< 10 Hz	

Remark: see attached diagram in Appendix G.

3.7 Spurious emission conducted

Reference

FCC	CFR part 15.247 (d)
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Method of measurement

The EUT is connected to the spectrum analyzer via a low loss cable. If the EUT is not equipped with an antenna connector, a temporary antenna connector has to be installed. The EUT is switched on, the hopping function is disabled.

The analyzer setting was as following:

Frequency range	RES bandwidth		Video bandwidth	
	Pk	Avg	Pk	Avg
$f < 1$ GHz	100 kHz	100 kHz	100 kHz	100 kHz
$f > 1$ GHz	1 MHz	1 MHz	1 MHz	1 MHz

Limits

FCC	20 dB below peak output power
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Test results

Frequency Marker [MHz]	Result [dBm]	Passed
--	--	<input type="checkbox"/>
--	--	<input type="checkbox"/>
--	--	<input type="checkbox"/>
--	--	<input type="checkbox"/>
--	--	<input type="checkbox"/>

Remark: not required.

3.8 Spurious emission radiated

Reference

FCC	CFR part 15.247(d), 15.205, 15.209, 15.35
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Method of measurement

Spurious emission was measured with modulation (declared by manufacturer).

According to 47 CFR 15, Part 15.247 (d): 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 Section 15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Limits for restricted bands

FCC	20 dB below peak output power, emissions which fall in the restricted bands (15.205(a)) must comply the following limits: Frequencies below 1GHz:		
	Frequency of emission	Field strength	Field strength
	[MHz]	[$\mu\text{V} / \text{m}$]	[dB $\mu\text{V} / \text{m}$]
	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
	Above 960	500	54.0
	For frequencies above 1 GHz (Avg measurements): 54.0 dB $\mu\text{V} / \text{m}$ For frequencies above 1 GHz (Pk measurements): Limit + 20 dB = 54.0 dB $\mu\text{V} / \text{m}$ + 20 dB = 74 dB $\mu\text{V} / \text{m}$		

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results.

The peak and average spurious emission plots was measured with the average limits. In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Marker-Delta-Method" or the „Duty-Cycle Correction Factor“.

15.35 (c) Duty cycle correction average value

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Duty cycle correction = $20 \log (\text{dwell time} / 100 \text{ ms or less})$

DA 00-705 Duty cycle correction peak value

The analyzer setting was as following:

Frequency range	RES bandwidth		Video bandwidth	
	Pk	Avg	Pk	Avg
f < 1GHz	100 kHz	100 kHz	10 Hz	10 Hz
f > 1GHz	1 MHz	1 MHz	10 Hz	10 Hz

Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20 \log (\text{dwell time} / 100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Test results

Summary table with radiated data of the test plots

Channel No.	Frequency Marker [MHz]	Polarization	Max. Field Strength [dBμV/m]	Detector	BW [MHz]	Passed
0	190.120	H	33.40	Peak	0.1	☒
0	178.537	V	33.61	Peak	0.1	☒
0	916.633	H	20.34	Peak	0.1	☒
0	959.920	V	19.99	Peak	0.1	☒
0	3970	H	42.81	Average	1	☒
0	1603	V	45.52	Average	1	☒
0	7214	H	39.45	Average	1	☒
0	6677	V	39.42	Average	1	☒
0	11928	H	43.77	Average	1	☒
0	11928	V	43.42	Average	1	☒
0	15619	H	49.02	Average	1	☒
0	15619	V	49.04	Average	1	☒
0	22480	H	42.30	Average	1	☒
0	22480	V	42.64	Average	1	☒

Channel No.	Frequency Marker [MHz]	Polarization	Max. Field Strength [dBμV/m]	Detector	BW [MHz]	Passed
39	195.571	H	33.64	Peak	0.1	☒
39	198.978	V	33.83	Peak	0.1	☒
39	985.571	H	20.30	Peak	0.1	☒
39	963.126	V	19.45	Peak	0.1	☒
39	3970	H	42.54	Average	1	☒
39	1627	V	46.20	Average	1	☒
39	7391	H	39.35	Average	1	☒
39	7760	V	39.81	Average	1	☒
39	11888	H	43.53	Average	1	☒
39	12000	V	43.73	Average	1	☒
39	15619	H	49.03	Average	1	☒
39	15619	V	49.02	Average	1	☒
39	22599	H	42.16	Average	1	☒
39	21816	V	42.56	Average	1	☒

Channel No.	Frequency Marker [MHz]	Polarization	Max. Field Strength [dBμV/m]	Detector	BW [MHz]	Passed
78	181.944	H	33.76	Peak	0.1	☒
78	191.142	V	34.47	Peak	0.1	☒
78	931.062	H	20.47	Peak	0.1	☒
78	931.062	V	20.27	Peak	0.1	☒
78	3990	H	42.69	Average	1	☒
78	3868	V	43.09	Average	1	☒
78	7367	H	39.57	Average	1	☒
78	7263	V	39.88	Average	1	☒
78	11920	H	43.41	Average	1	☒
78	11928	V	43.61	Average	1	☒
78	15619	H	49.02	Average	1	☒
78	15619	V	49.02	Average	1	☒
78	22463	H	42.46	Average	1	☒
78	22650	V	42.97	Average	1	☒

All other not noted test plots do not contain significant test results in relation to the limits.
All emissions are less than 20 dB below carrier.

Remark: see attached diagrams in Appendix I. No emissions near by limit have been found.

3.9 Band edge compliance

Reference

FCC	CFR part 15.247 (d)
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Method of measurement

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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Limits

FCC	20 dB below peak output power
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Test results

Test conditions	Single frequency (hopping disabled)	
	Lower band-edge	Upper band-edge
$T_{\text{nom}} = 25^{\circ}\text{C}$ $V_{\text{nom}} = 3.7\text{V DC}$	41.40 dB	44.82 dB
Measurement uncertainty	< 100 Hz	

Test conditions	Hopping frequency (hopping enabled)	
	Lower band-edge	Upper band-edge
$T_{\text{nom}} = 25^{\circ}\text{C}$ $V_{\text{nom}} = 3.7\text{V DC}$	43.49 dB	51.33 dB
Measurement uncertainty	< 100 Hz	

Remark: see attached diagrams in Appendix J.

3.10 AC power line conducted emissions

Reference

FCC	CFR part 15.207
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Method of measurement

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transacted first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Limits

FCC	Frequency of emission	Conducted limit field strength [dBμV]	
	[MHz]	Quasi Peak	AV
	0.15 - 0.5	66 to 56	56 - 46
	0.5 - 5	56	46
	5 - 30	60	50

Test results

Frequency	Level		Passed
	Quasi-peak	Average	
150 kHz – 500 kHz	66 to 56	56 - 46	☒
500 kHz – 5MHz	56	46	☒
150 kHz – 30 MHz	60	50	☒

Remark: see attached diagrams in Appendix K.

4 Receiver parameters

4.1 Radiated emissions

Reference

FCC	Part 15.109
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Method of measurement

The compliance of the EUT Receiver with the Limits of spurious emissions was performed according to the radiated measurement method.

The spectrum analyzer RBW was set to 100 kHz for measurements below 100 kHz and 1.0 MHz above 1.0 GHz. The measurement results are evaluated according to the procedure described in section 2.4 of this test report.

Limits

	Frequency of emission	Field strength	Field strength
	[MHz]	[$\mu\text{V} / \text{m}$]	[dB $\mu\text{V} / \text{m}$]
FCC	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
	Above 960	500	54.0

Test Results

Channel No.	Frequency Marker [MHz]	Polarization	Max. Field Strength [dB μ V/m]	Detector	BW [MHz]	Passed
0	191.824	H	28.51	Peak	0.1	<input checked="" type="checkbox"/>
0	198.297	V	27.63	Peak	0.1	<input checked="" type="checkbox"/>
0	966.333	H	18.99	Peak	0.1	<input checked="" type="checkbox"/>
0	983.968	V	18.75	Peak	0.1	<input checked="" type="checkbox"/>
0	1601	H	41.22	Peak	1	<input checked="" type="checkbox"/>
0	1601	V	46.09	Peak	1	<input checked="" type="checkbox"/>
0	6974	H	42.30	Peak	1	<input checked="" type="checkbox"/>
0	7206	V	42.49	Peak	1	<input checked="" type="checkbox"/>
0	11984	H	37.74	Peak	1	<input checked="" type="checkbox"/>
0	11920	V	37.33	Peak	1	<input checked="" type="checkbox"/>
0	15631	H	41.29	Peak	1	<input checked="" type="checkbox"/>
0	15619	V	41.48	Peak	1	<input checked="" type="checkbox"/>
0	22650	H	45.66	Peak	1	<input checked="" type="checkbox"/>
0	22718	V	46.20	Peak	1	<input checked="" type="checkbox"/>

Channel No.	Frequency Marker [MHz]	Polarization	Max. Field Strength [dB μ V/m]	Detector	BW [MHz]	Passed
78	196.253	H	27.74	Peak	0.1	<input checked="" type="checkbox"/>
78	198.297	V	27.65	Peak	0.1	<input checked="" type="checkbox"/>
78	895.792	H	18.63	Peak	0.1	<input checked="" type="checkbox"/>
78	969.539	V	18.83	Peak	0.1	<input checked="" type="checkbox"/>
78	1655	H	43.76	Peak	1	<input checked="" type="checkbox"/>
78	1655	V	44.68	Peak	1	<input checked="" type="checkbox"/>
78	7343	H	42.55	Peak	1	<input checked="" type="checkbox"/>
78	7743	V	42.39	Peak	1	<input checked="" type="checkbox"/>
78	11992	H	37.61	Peak	1	<input checked="" type="checkbox"/>
78	11960	V	36.96	Peak	1	<input checked="" type="checkbox"/>
78	15619	H	40.94	Peak	1	<input checked="" type="checkbox"/>
78	15631	V	40.75	Peak	1	<input checked="" type="checkbox"/>
78	22565	H	45.93	Peak	1	<input checked="" type="checkbox"/>
78	22480	V	45.45	Peak	1	<input checked="" type="checkbox"/>

All other not noted test plots do not contain significant test results in relation to the limits.

Remark: see attached diagrams in Appendix L. No emissions near by limit have been found.

Manufacturer/ Approval holder Declaration

The following identical model(s):

Belong to the tested device:

Product description: **Bluetooth Headset**
Model name: **M20**

No additional models were tested.

Test Report No.: H1M20803-6695-P-15

Appendix

A	Pictures
B	RF power output conducted
C	RF power output radiated (EIRP)
D	20 dB bandwidth
E	Time of occupancy (dwell time)
F	Number of hopping frequencies
G	Carrier frequency separation
H	Spurious emission conducted
I	Spurious emission radiated
J	Band-edge compliance
K	AC power line conducted emissions
L	Receiver radiated emissions

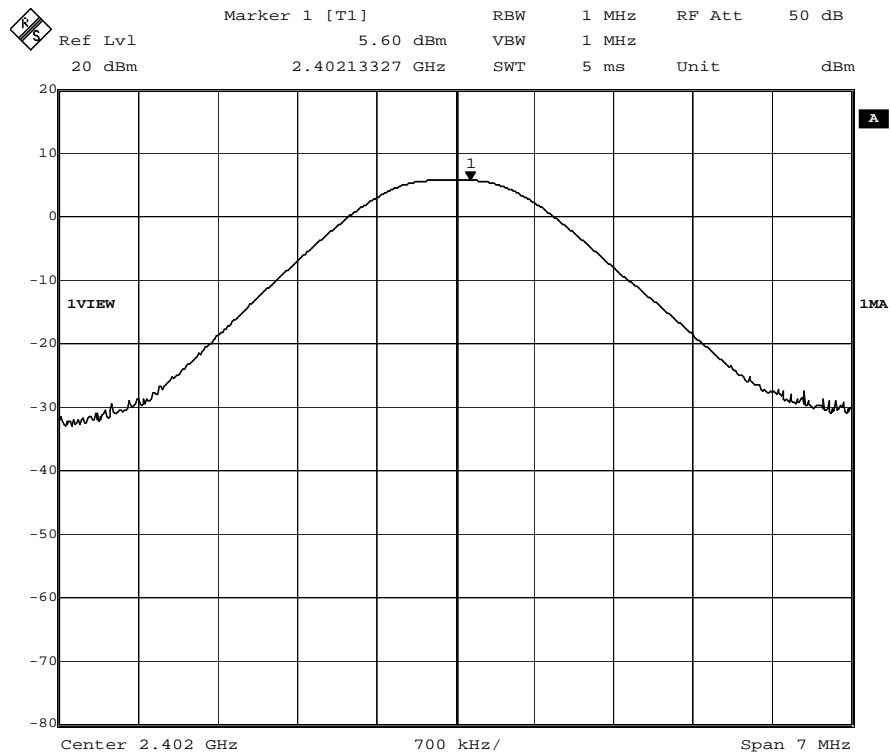
Appendix A

Picture

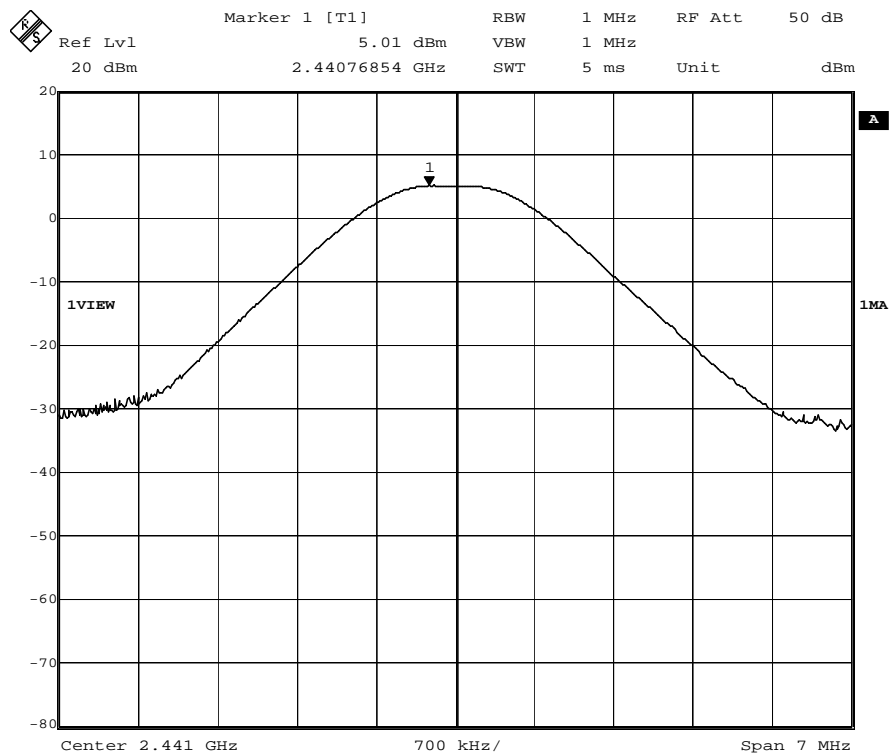
Test Report No.: H1M20803-6695-P-15

Appendix B

RF power output conducted

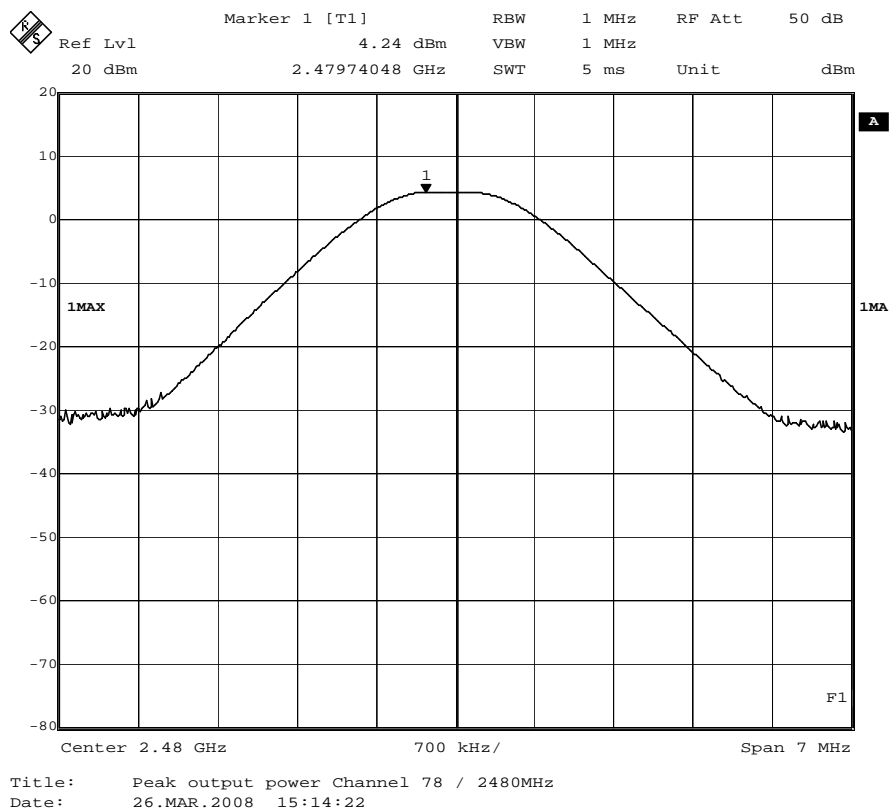


Title: Peak output power Channel 0 / 2402MHz
 Date: 26.MAR.2008 17:23:44



Title: Peak output power Channel 39 / 2441MHz
 Date: 26.MAR.2008 17:28:24

Test Report No.: H1M20803-6695-P-15



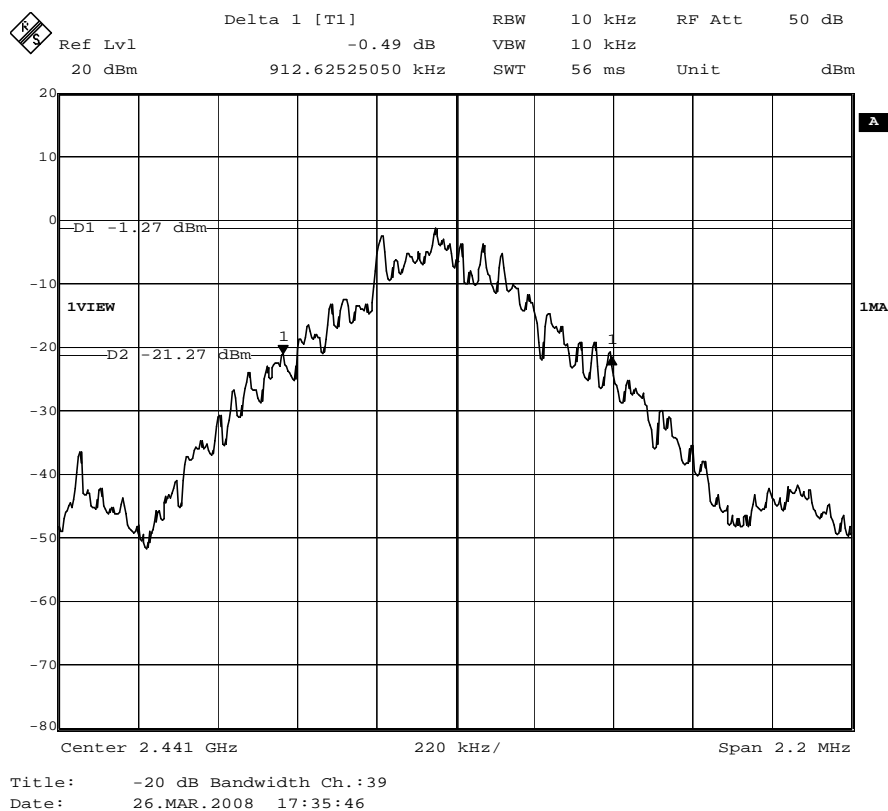
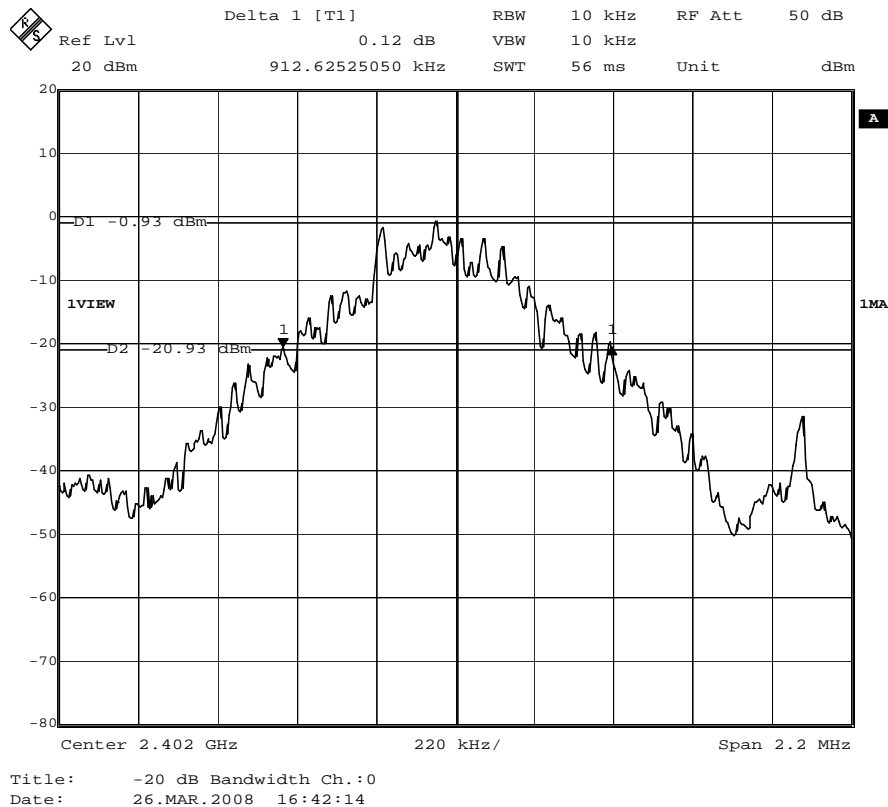
Test Report No.: H1M20803-6695-P-15

Appendix C

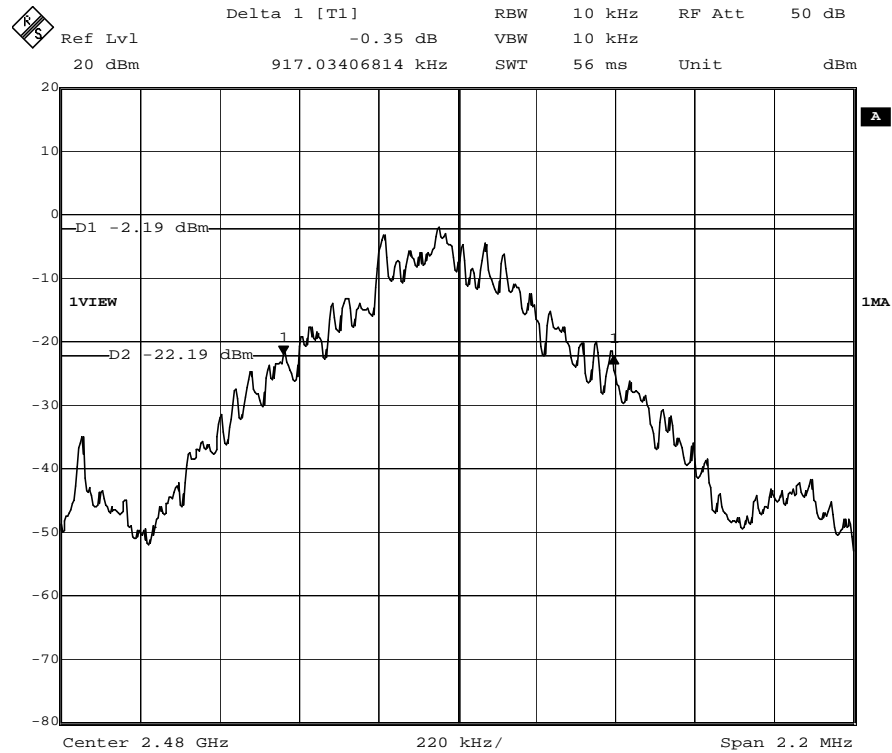
RF power output radiated (EIRP)

Appendix D

20 dB bandwidth



Test Report No.: H1M20803-6695-P-15

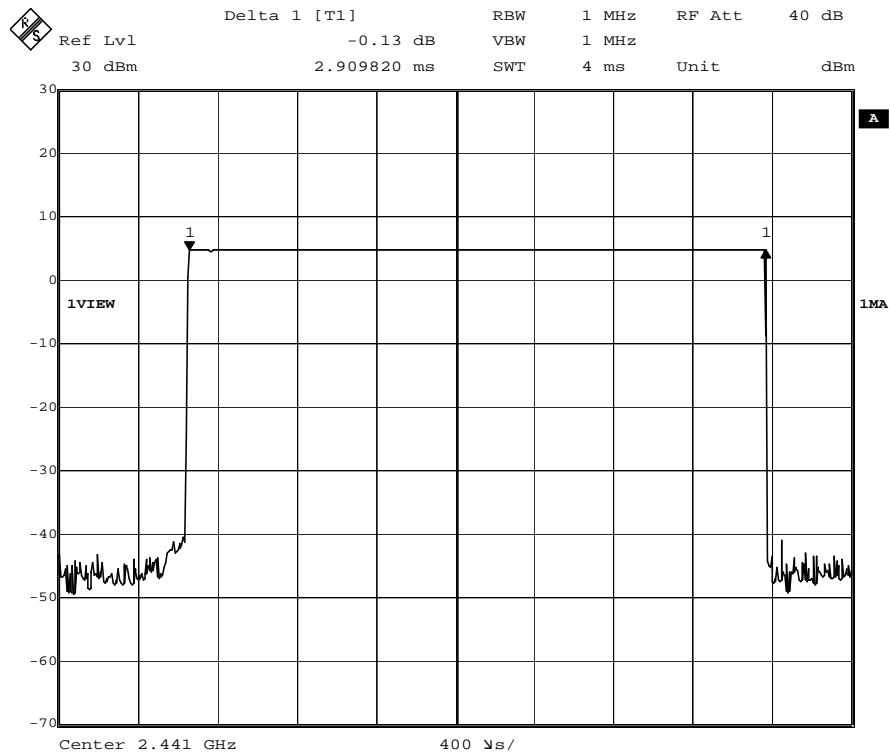


Title: -20 dB Bandwidth Ch.:78
 Date: 26.MAR.2008 15:28:25

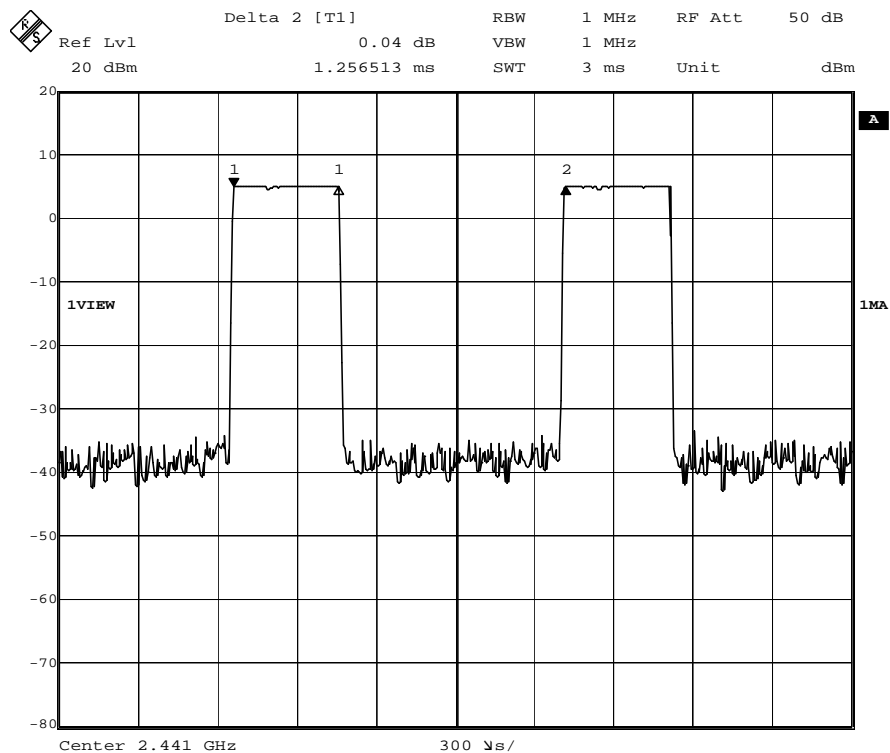
Test Report No.: H1M20803-6695-P-15

Appendix E

Time of occupancy (dwell time)

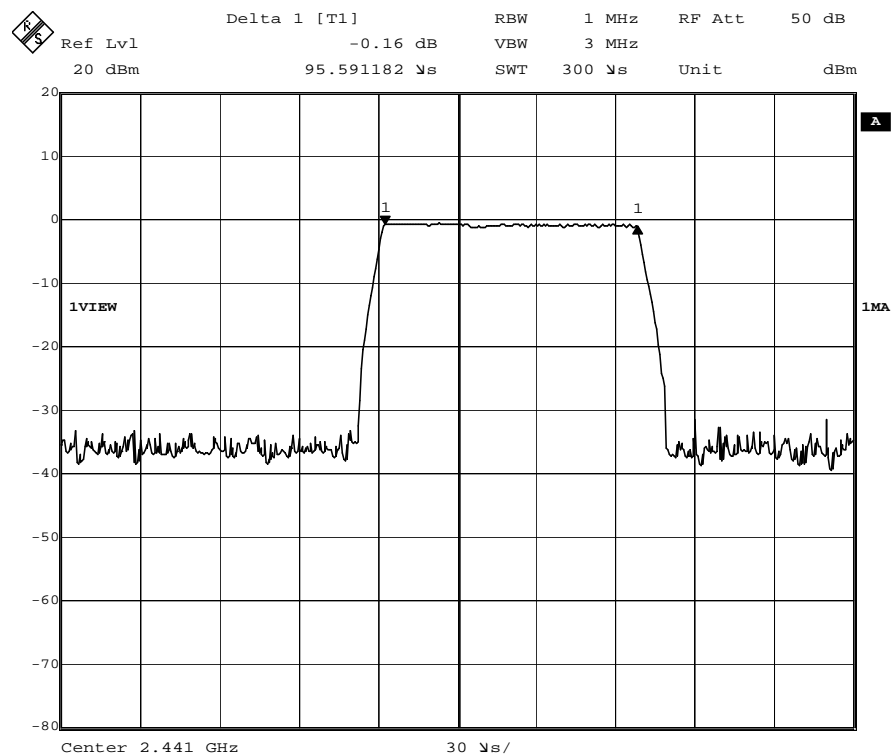


Title: Time of occupancy (hopping DH5)
Date: 27.MAR.2008 11:47:23



Title: Duty cycle Channel 39 / 2441MHz
Date: 26.MAR.2008 17:47:36

Test Report No.: H1M20803-6695-P-15

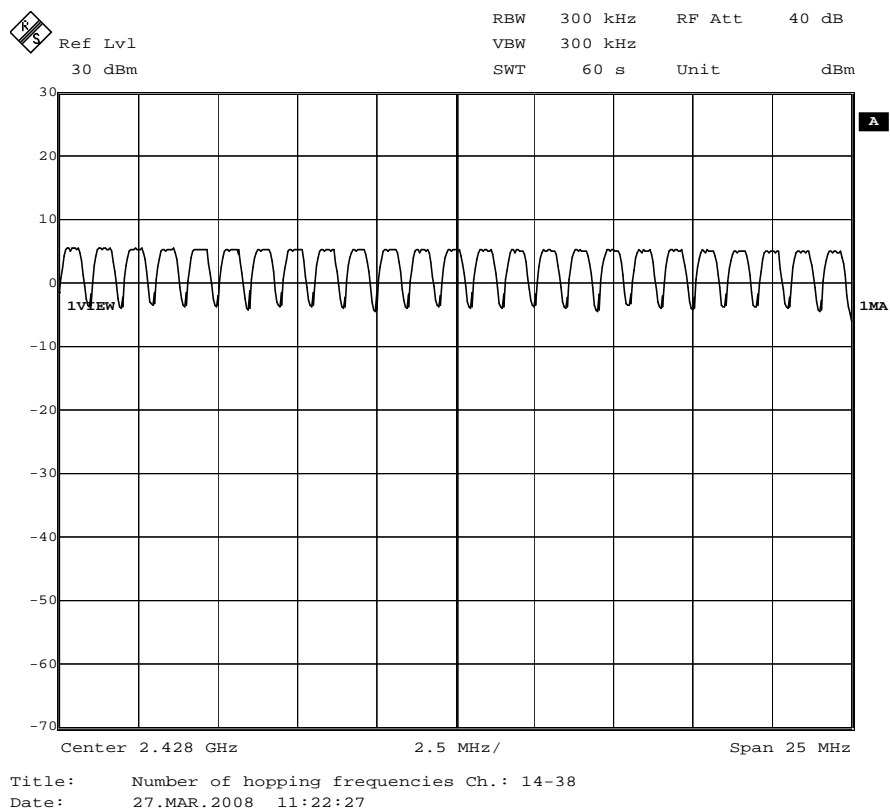
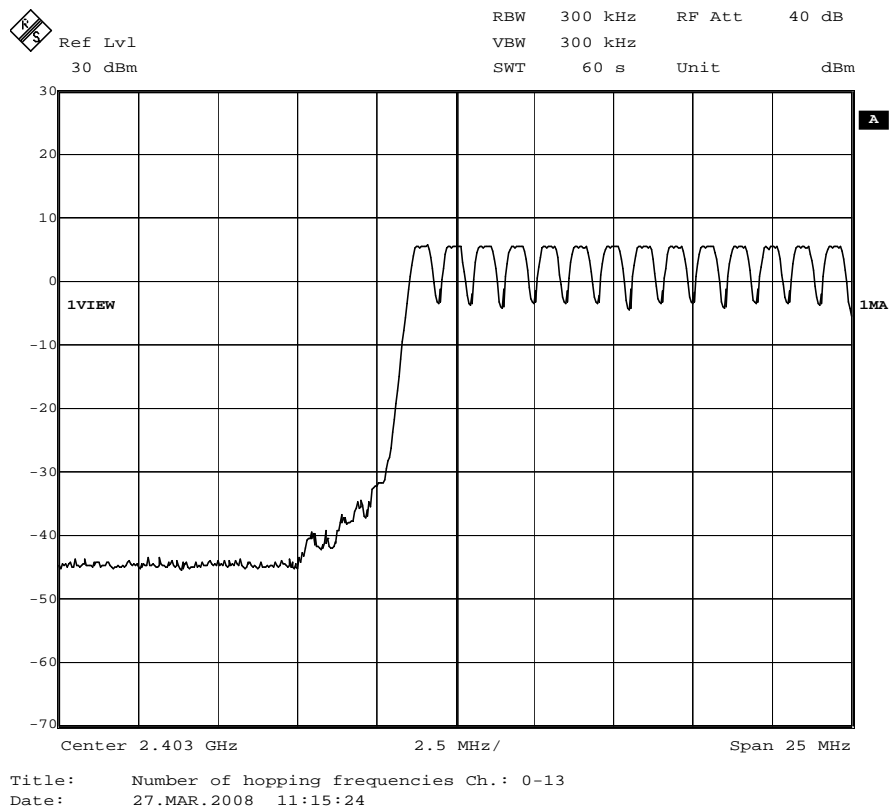


Title: Time of occupancy (inquiry mode)
Date: 28.APR.2008 18:00:17

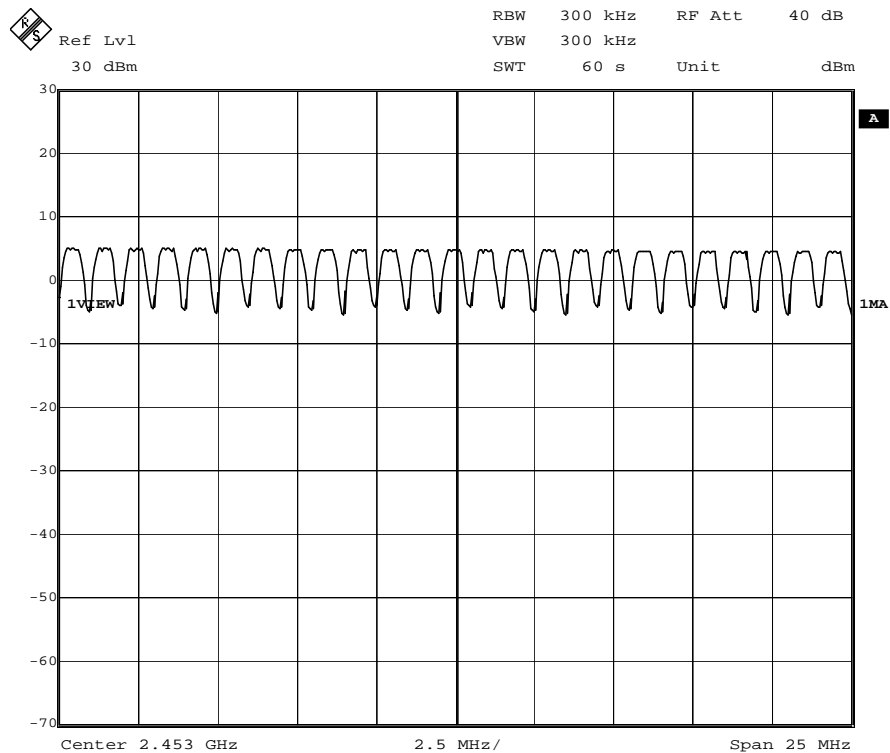
Test Report No.: H1M20803-6695-P-15

Appendix F

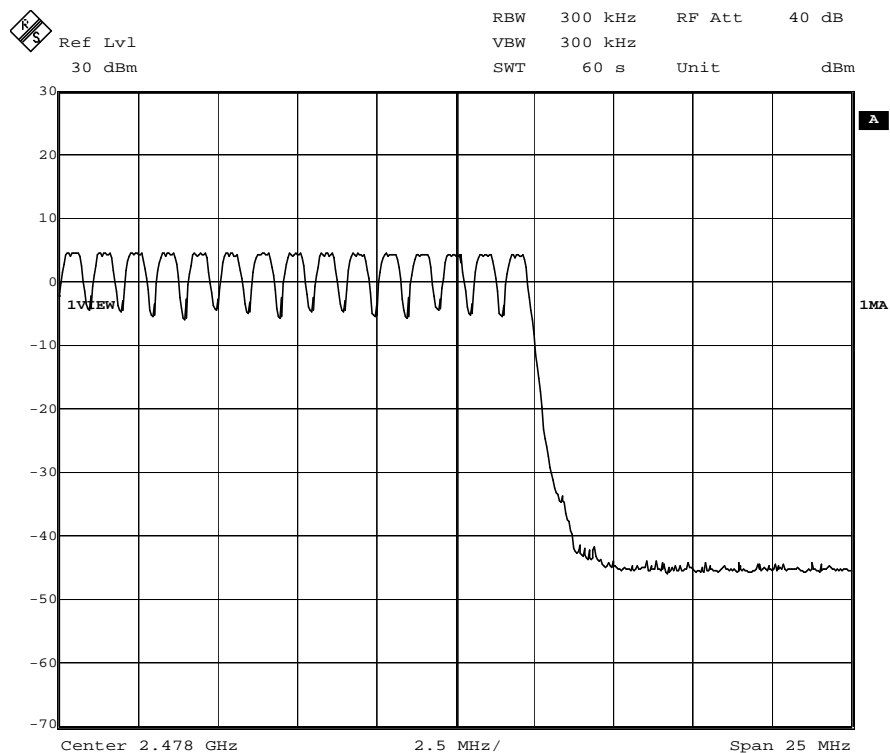
Number of hopping frequencies



Test Report No.: H1M20803-6695-P-15

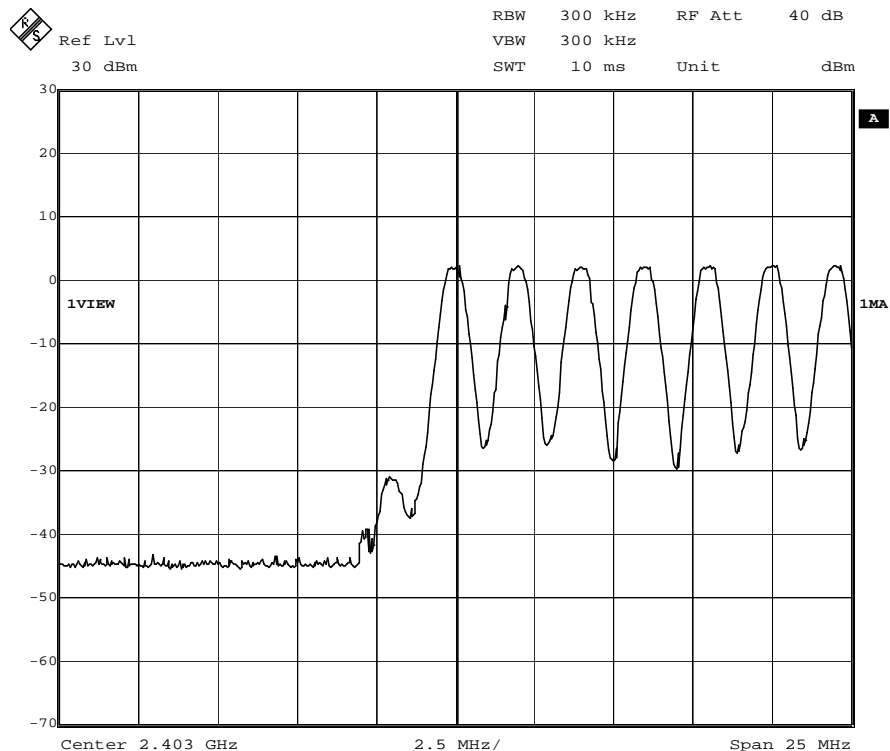


Title: Number of hopping frequencies Ch.: 39-63
 Date: 27.MAR.2008 11:26:53

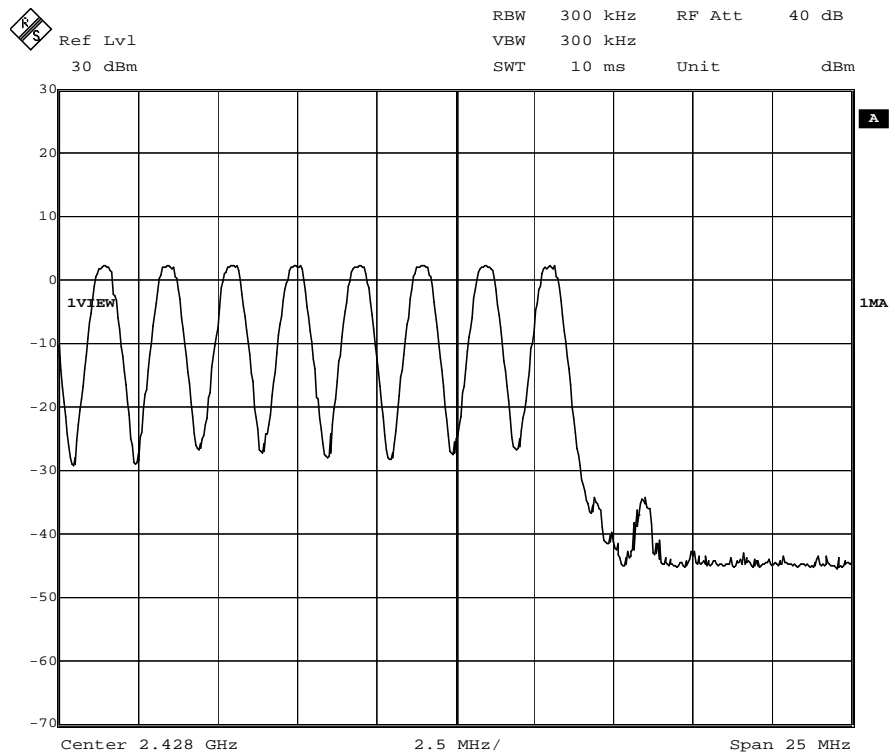


Title: Number of hopping frequencies Ch.: 64-78
 Date: 27.MAR.2008 11:31:07

Test Report No.: H1M20803-6695-P-15

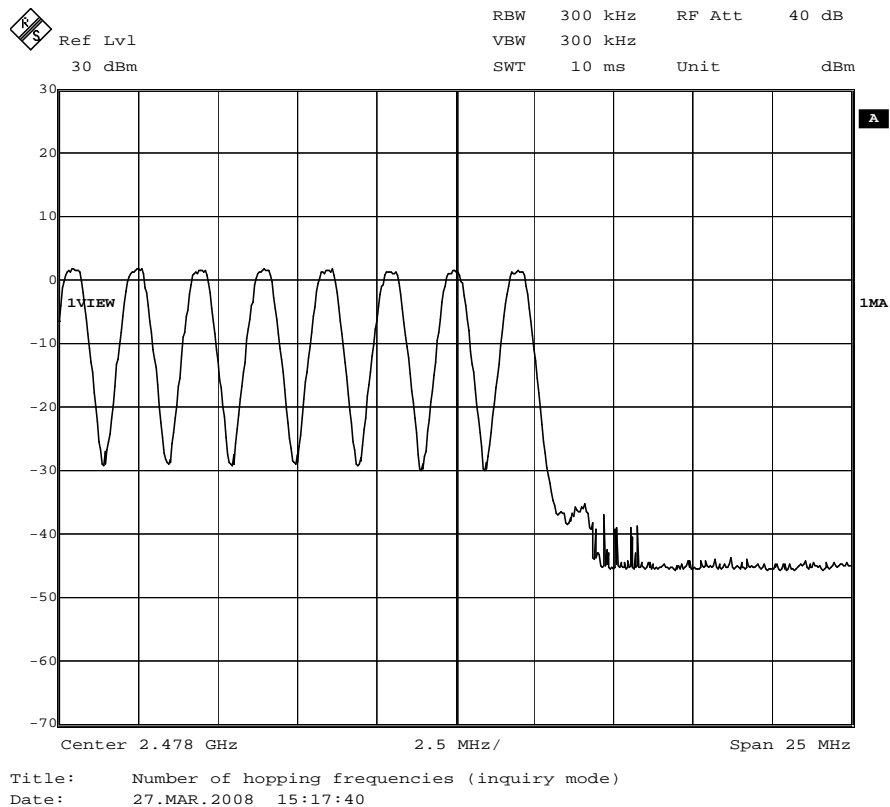
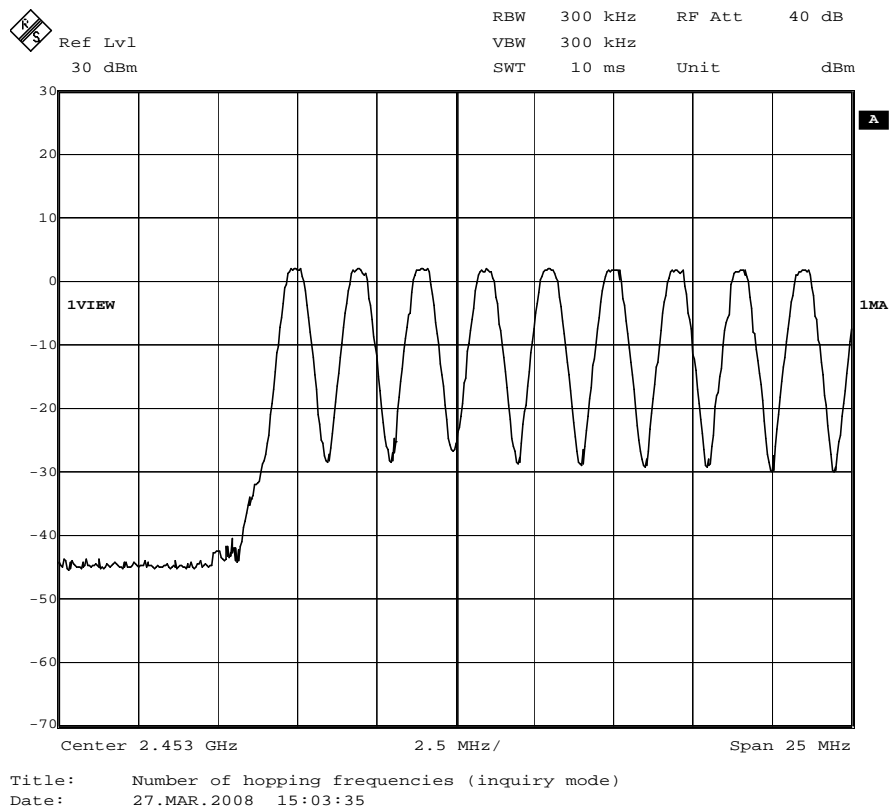


Title: Number of hopping frequencies (inquiry mode)
Date: 27.MAR.2008 14:19:41



Title: Number of hopping frequencies (inquiry mode)
Date: 27.MAR.2008 14:48:34

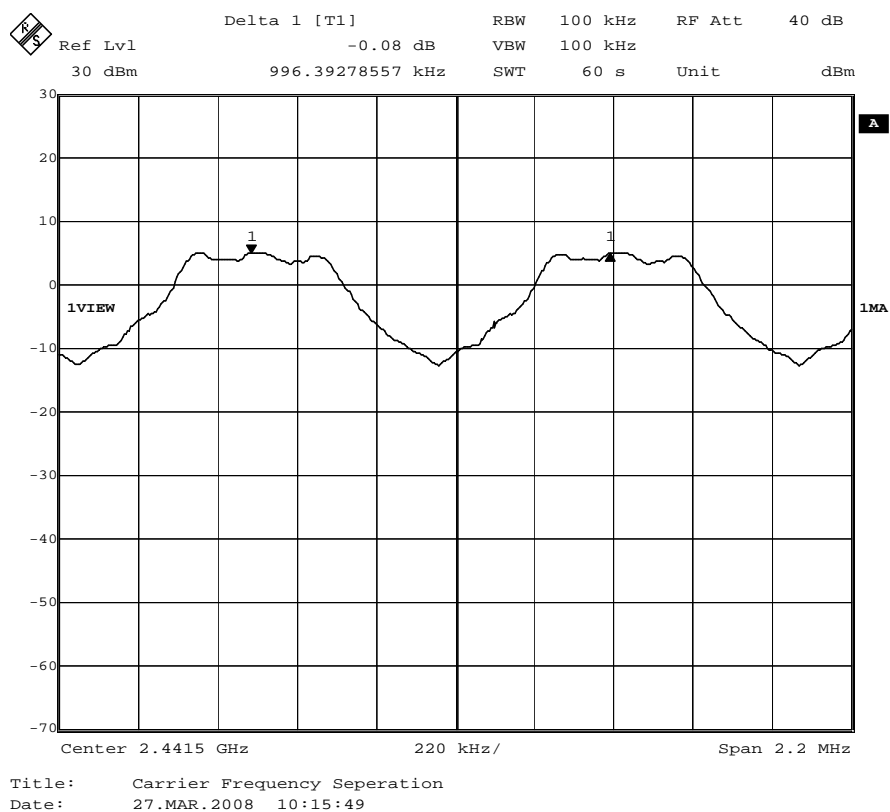
Test Report No.: H1M20803-6695-P-15



Test Report No.: H1M20803-6695-P-15

Appendix G

Carrier frequency separation



Test Report No.: H1M20803-6695-P-15

Appendix H

Spurious emission conducted

Test Report No.: H1M20803-6695-P-15

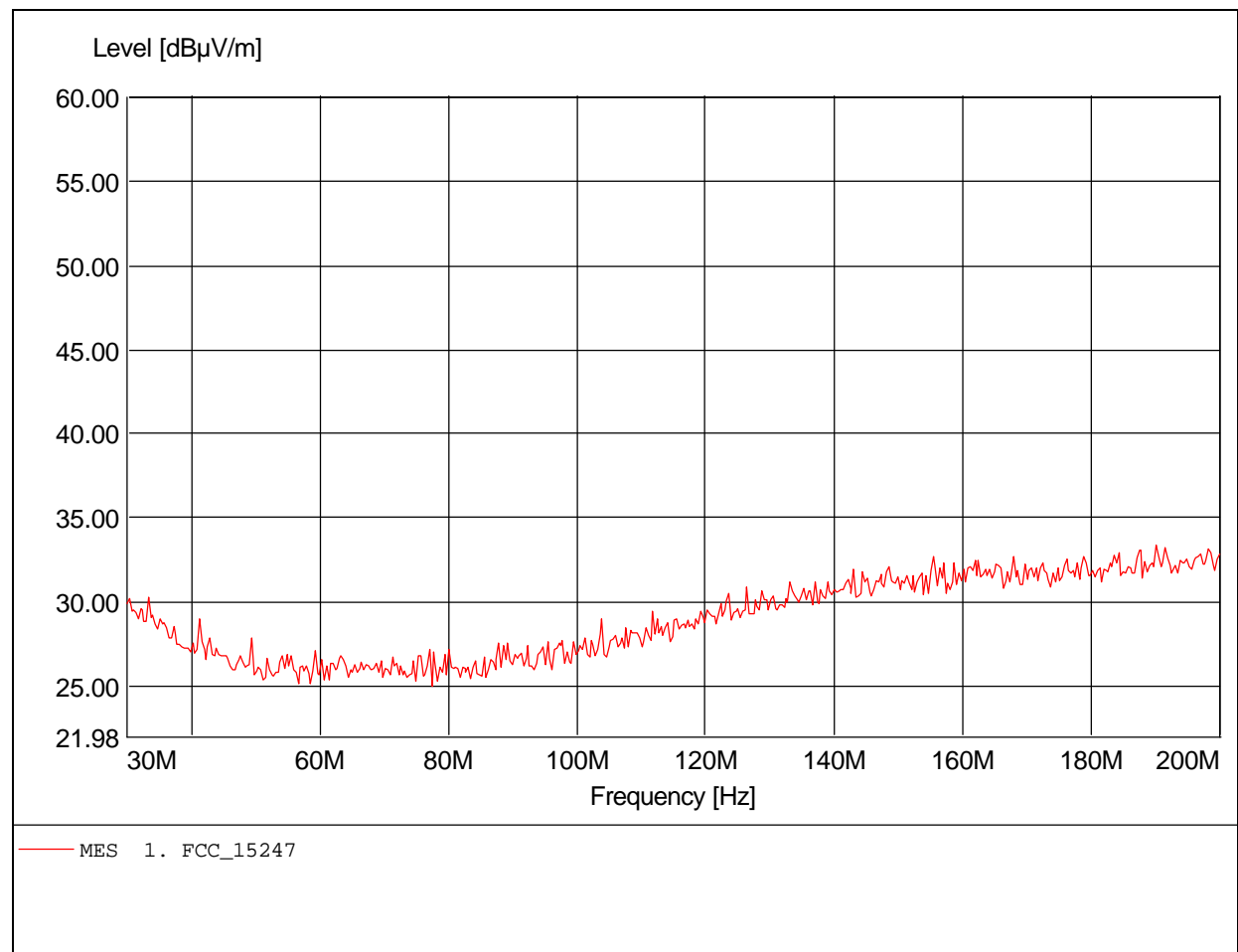
Appendix I

Spurious emission radiated

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 190.120MHz, Emax: 33.40dBμV/m, RBW: 100kHz

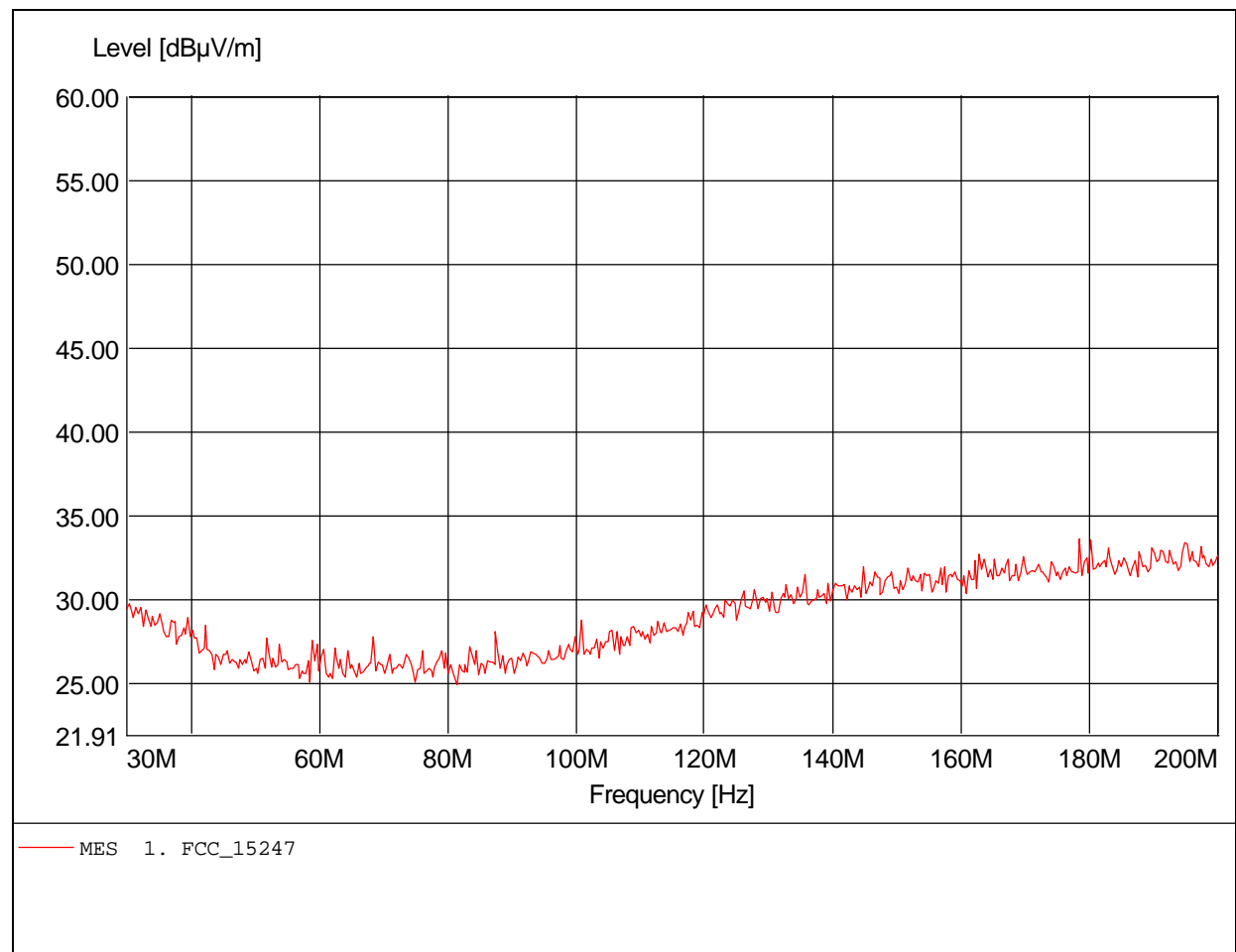


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 178.537MHz, Emax: 33.61dBµV/m, RBW: 100kHz

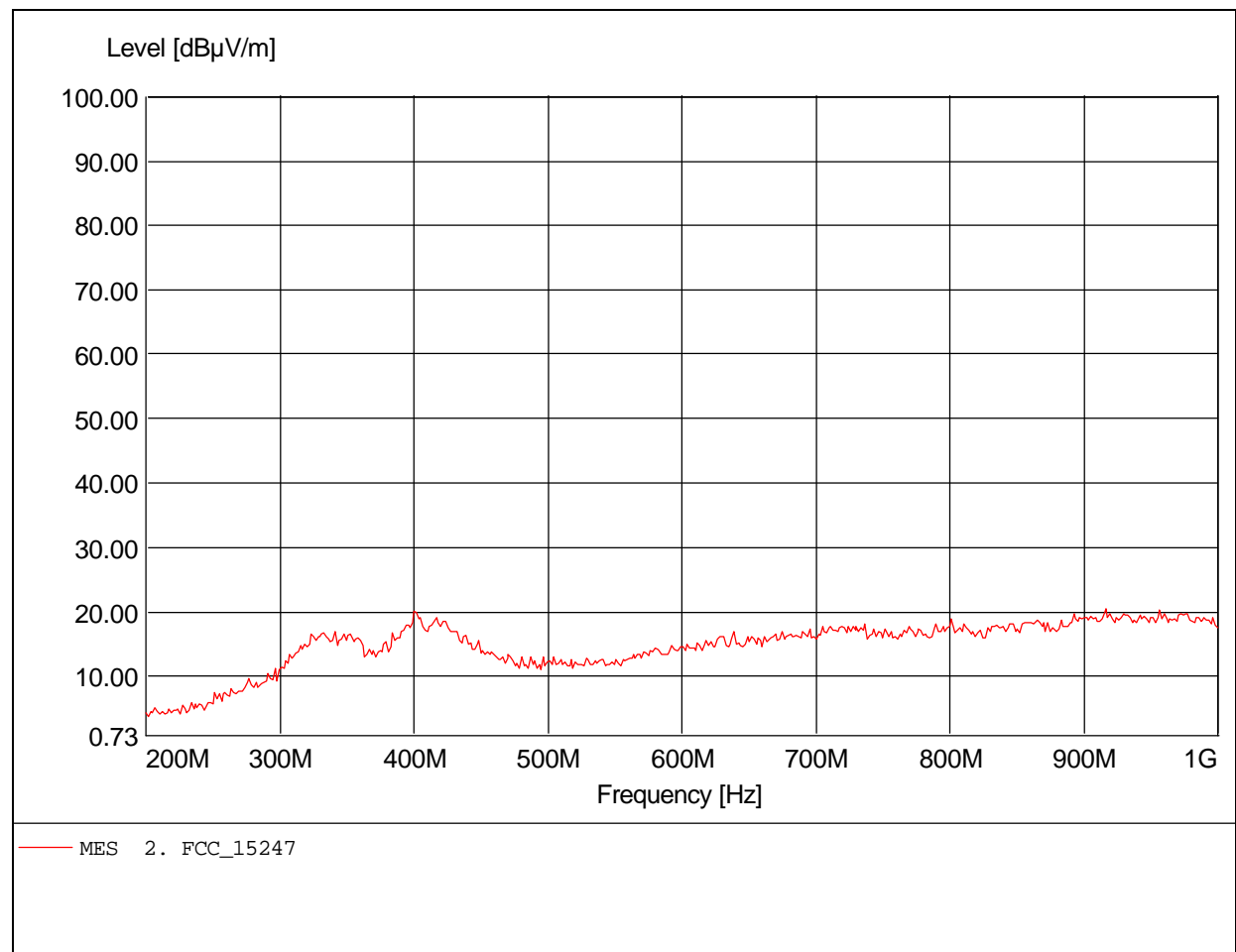


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 916.633MHz, Emax: 20.34dBμV/m, RBW: 100kHz

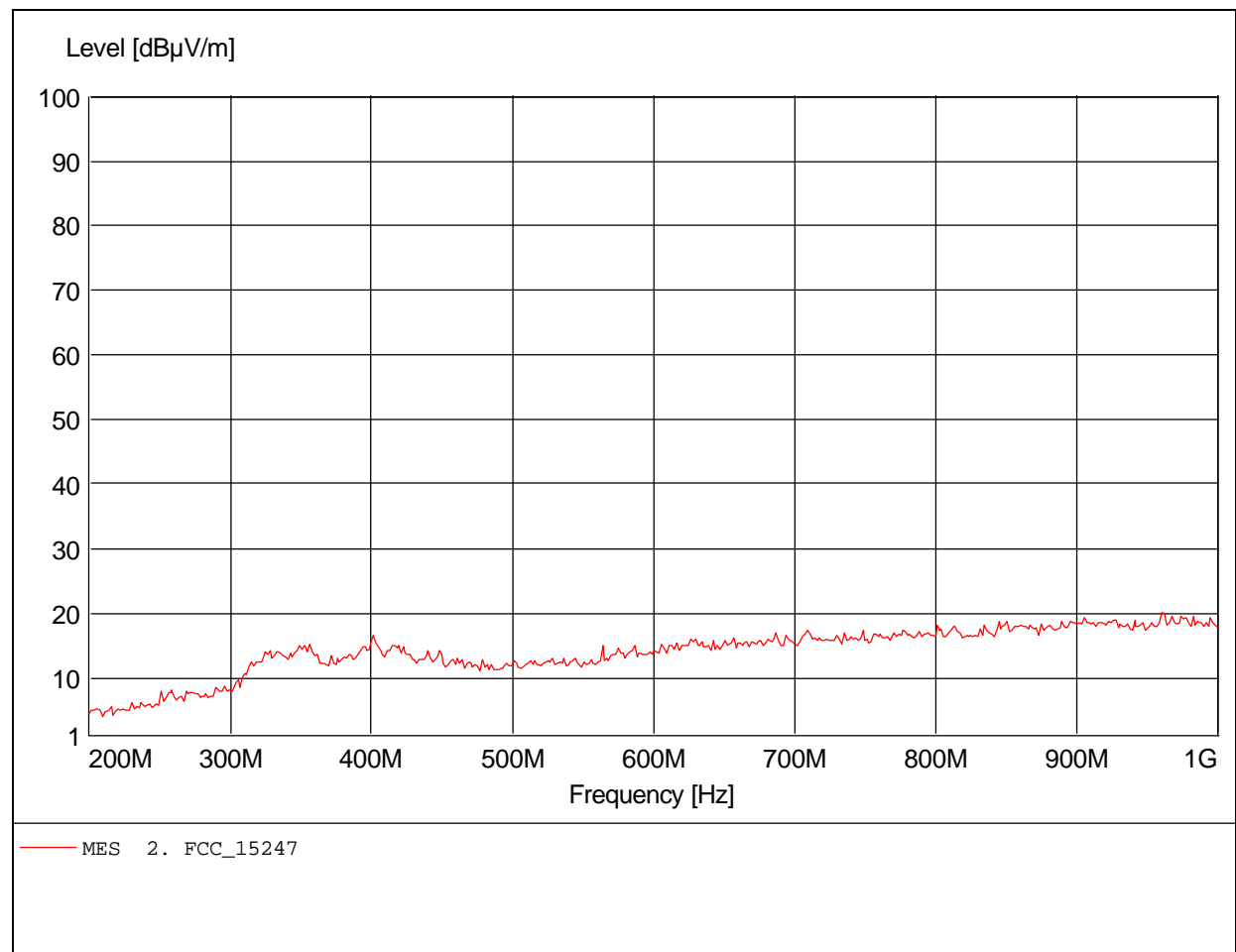


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 959.920MHz, Emax: 19.99dBμV/m, RBW: 100kHz

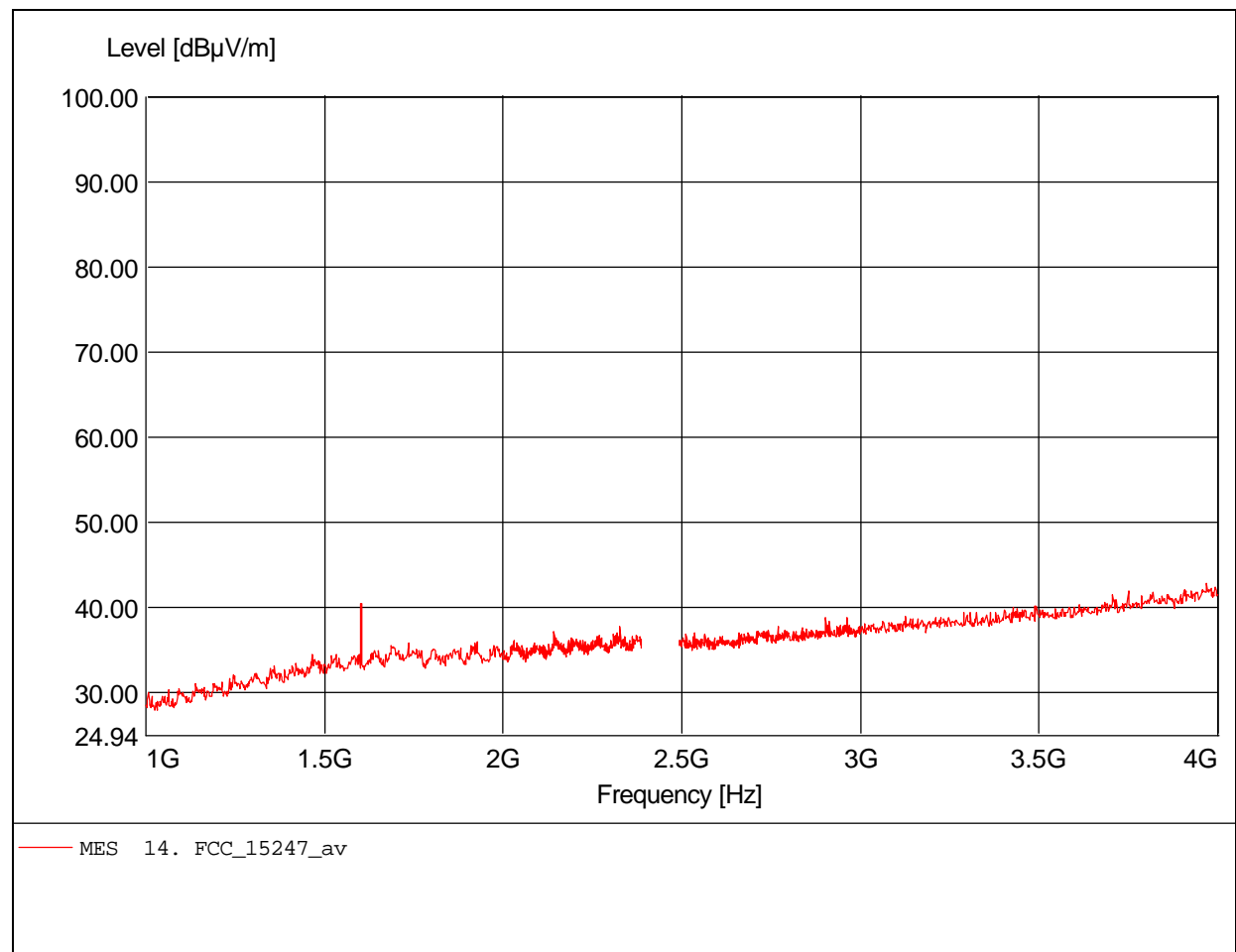


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 3.970GHz, Emax: 42.81dBμV/m, RBW: 1MHz

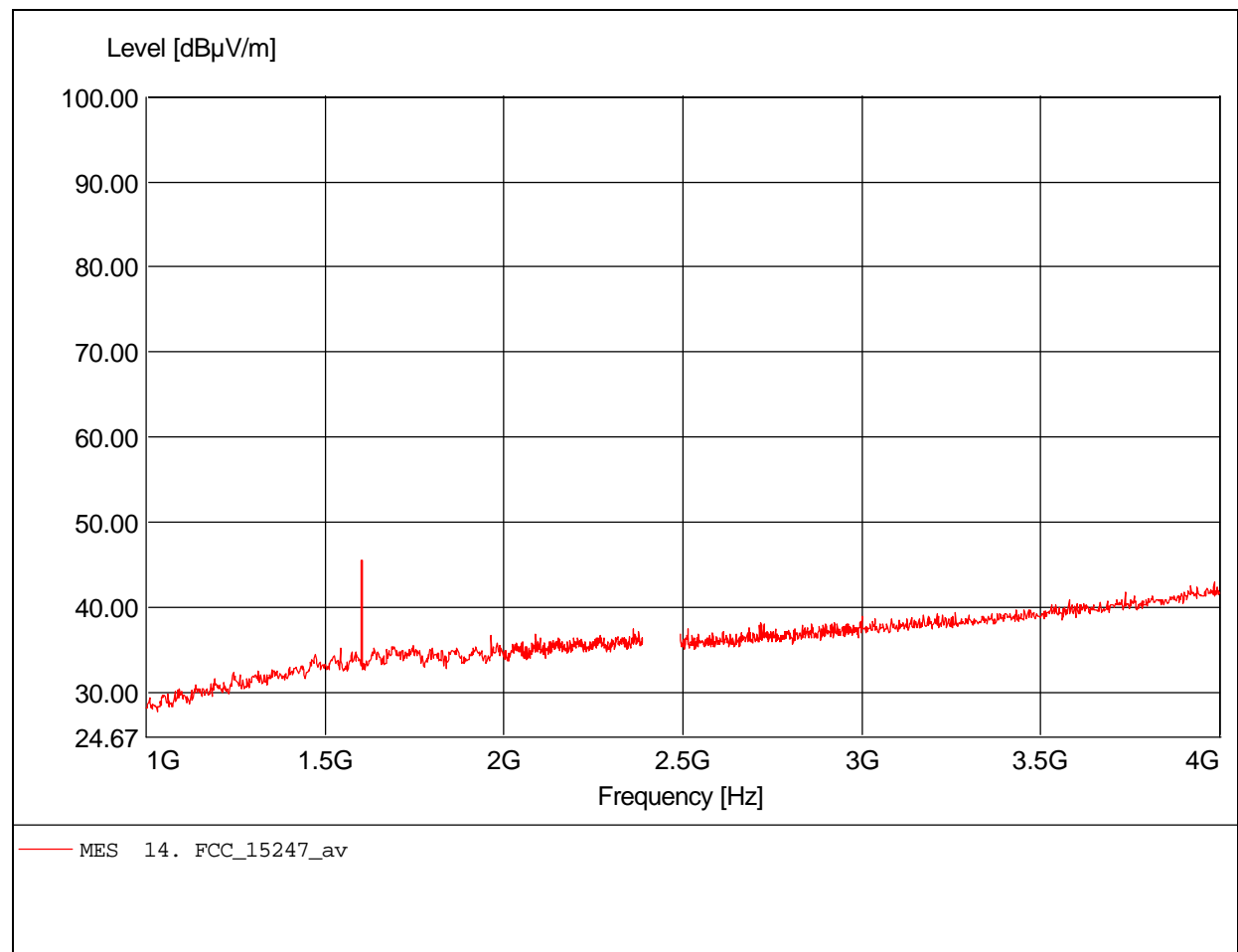


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 1.603GHz, Emax: 45.52dBμV/m, RBW: 1MHz

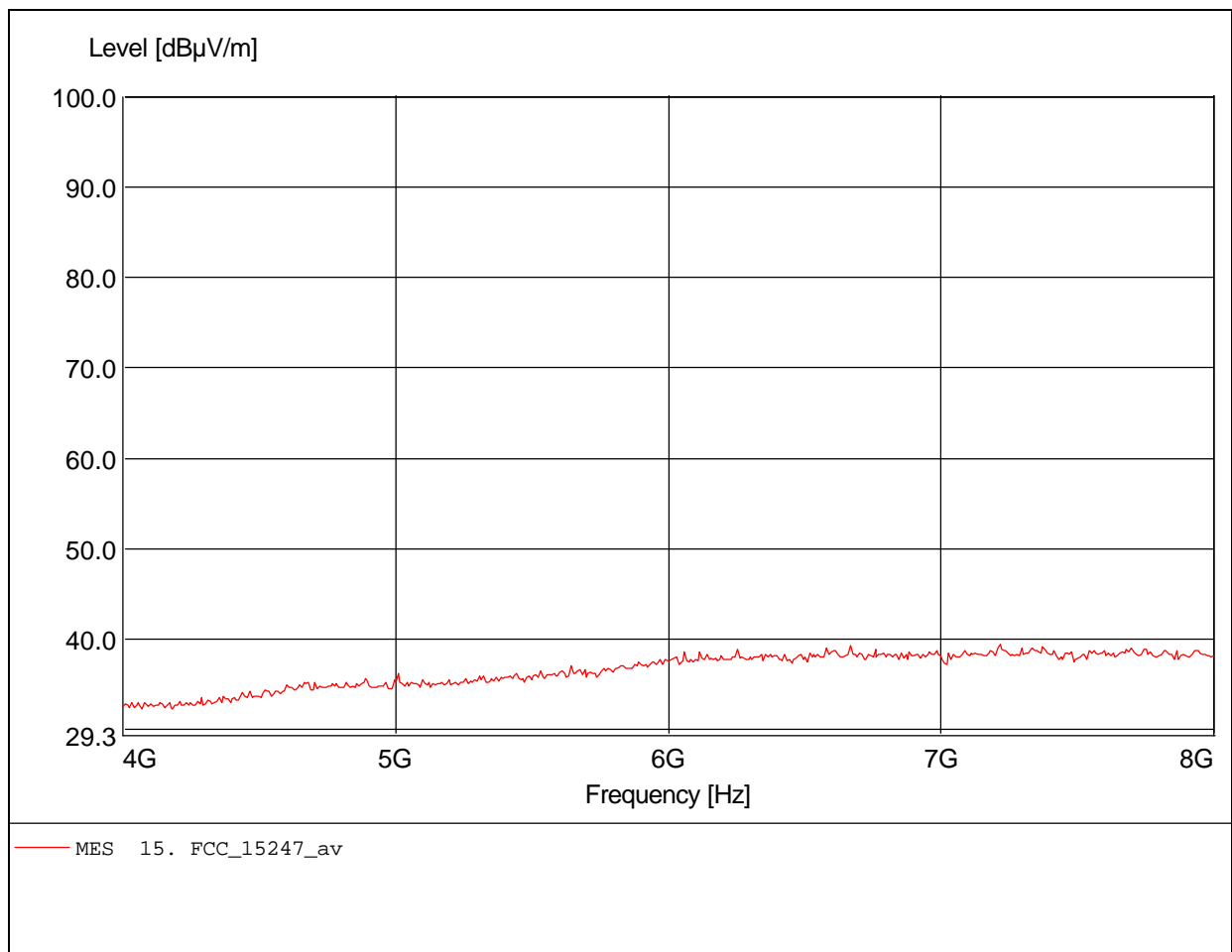


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.214GHz, Emax: 39.45dBμV/m, RBW: 1MHz

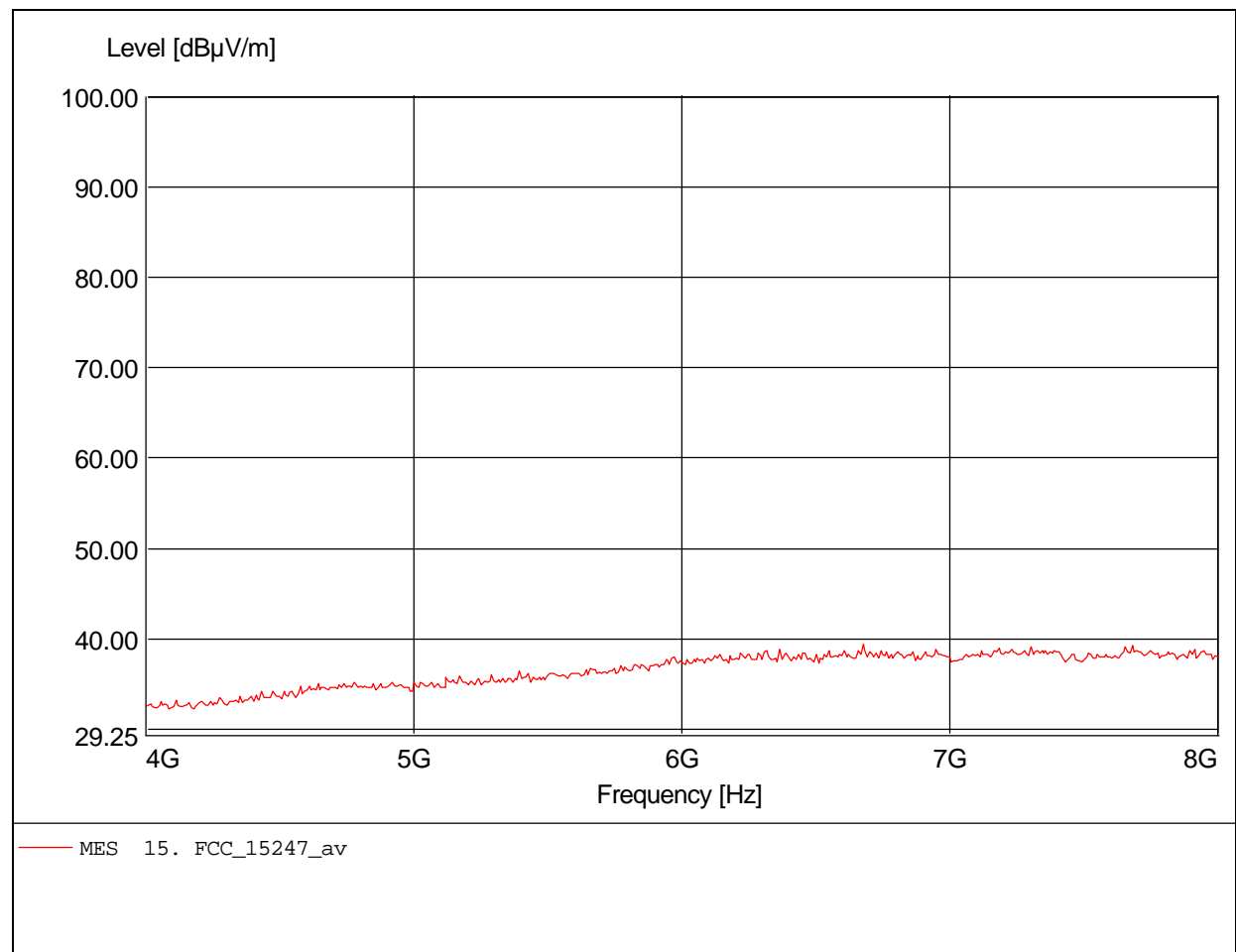


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 6.677GHz, Emax: 39.42dBμV/m, RBW: 1MHz

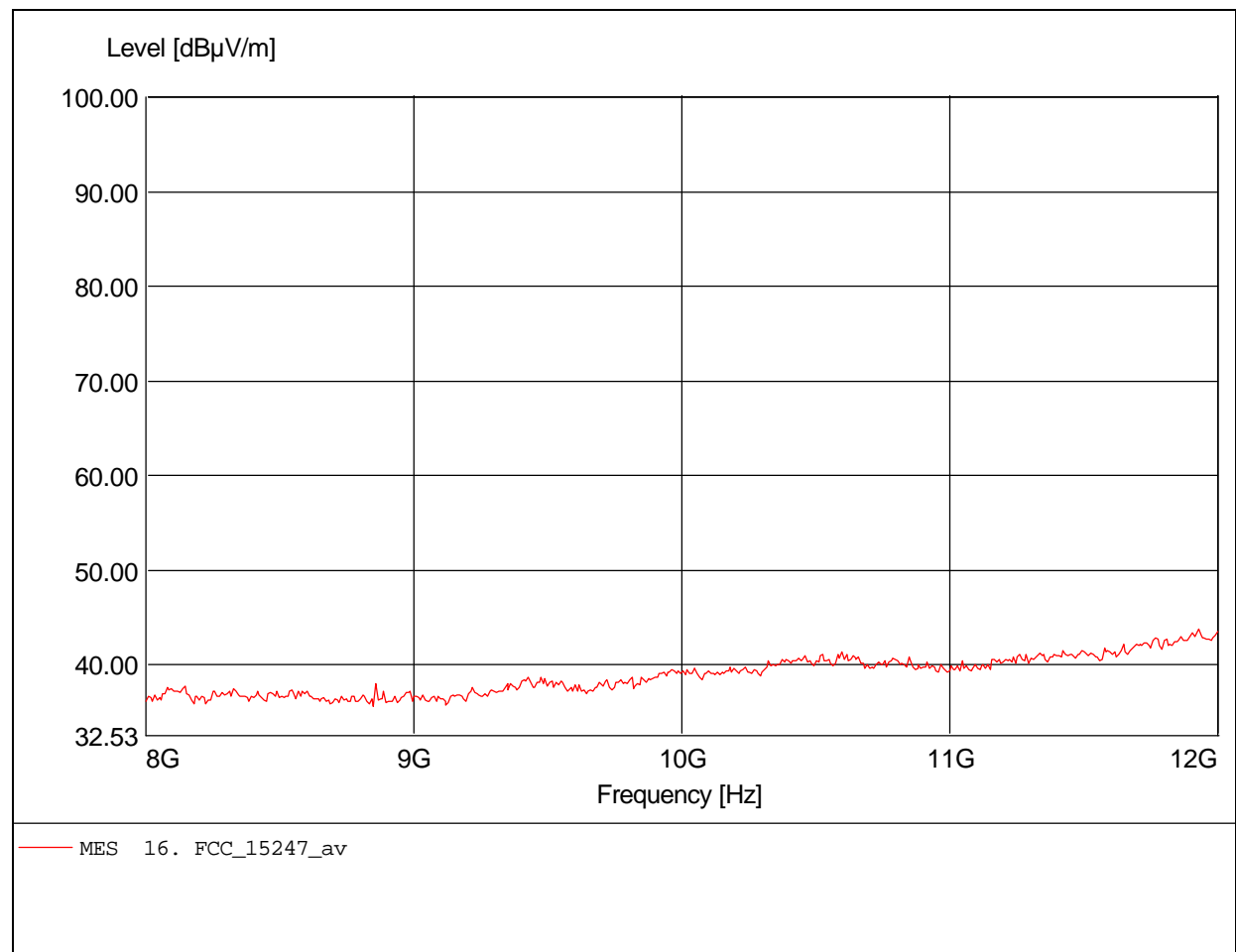


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.928GHz, Emax: 43.77dBμV/m, RBW: 1MHz

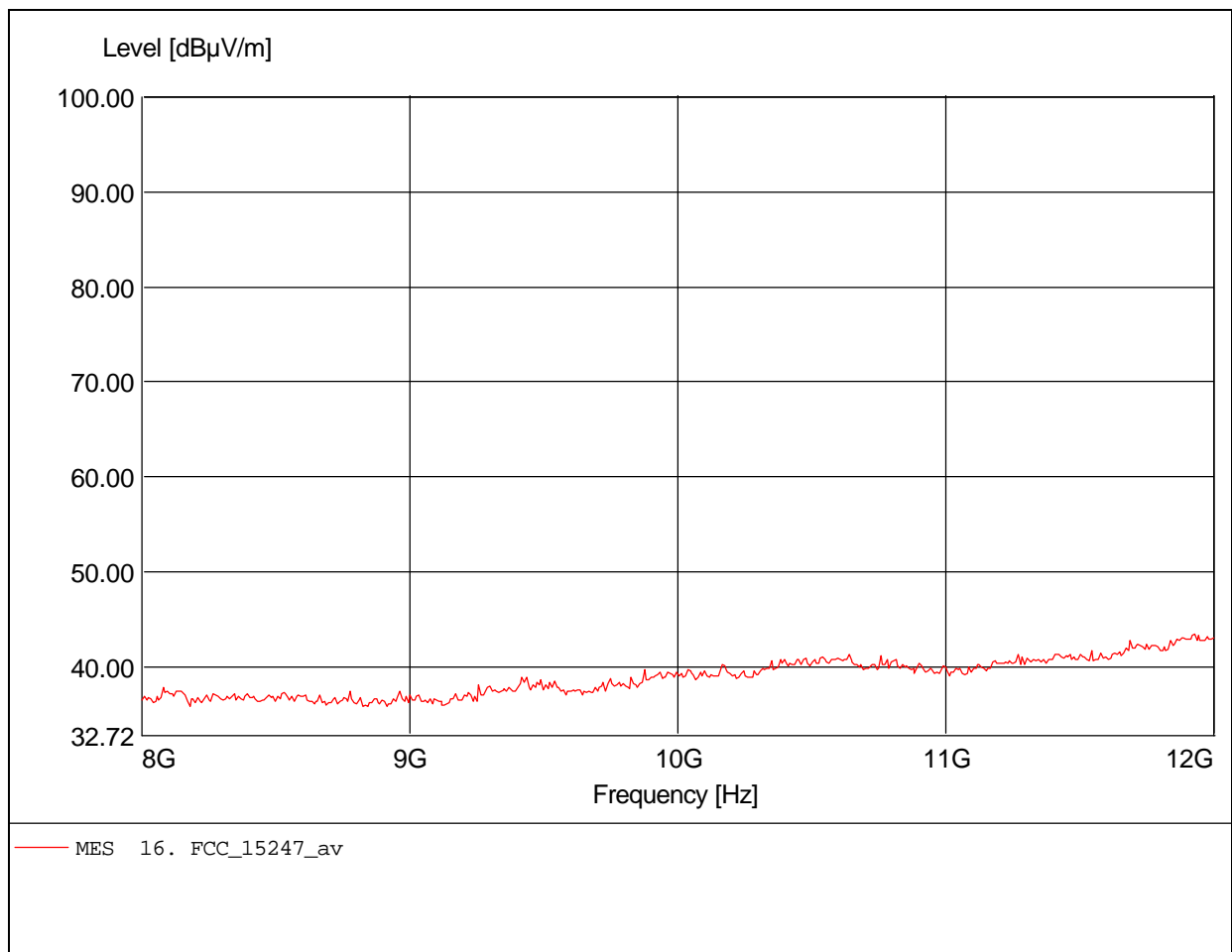


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.928GHz, Emax: 43.42dBμV/m, RBW: 1MHz

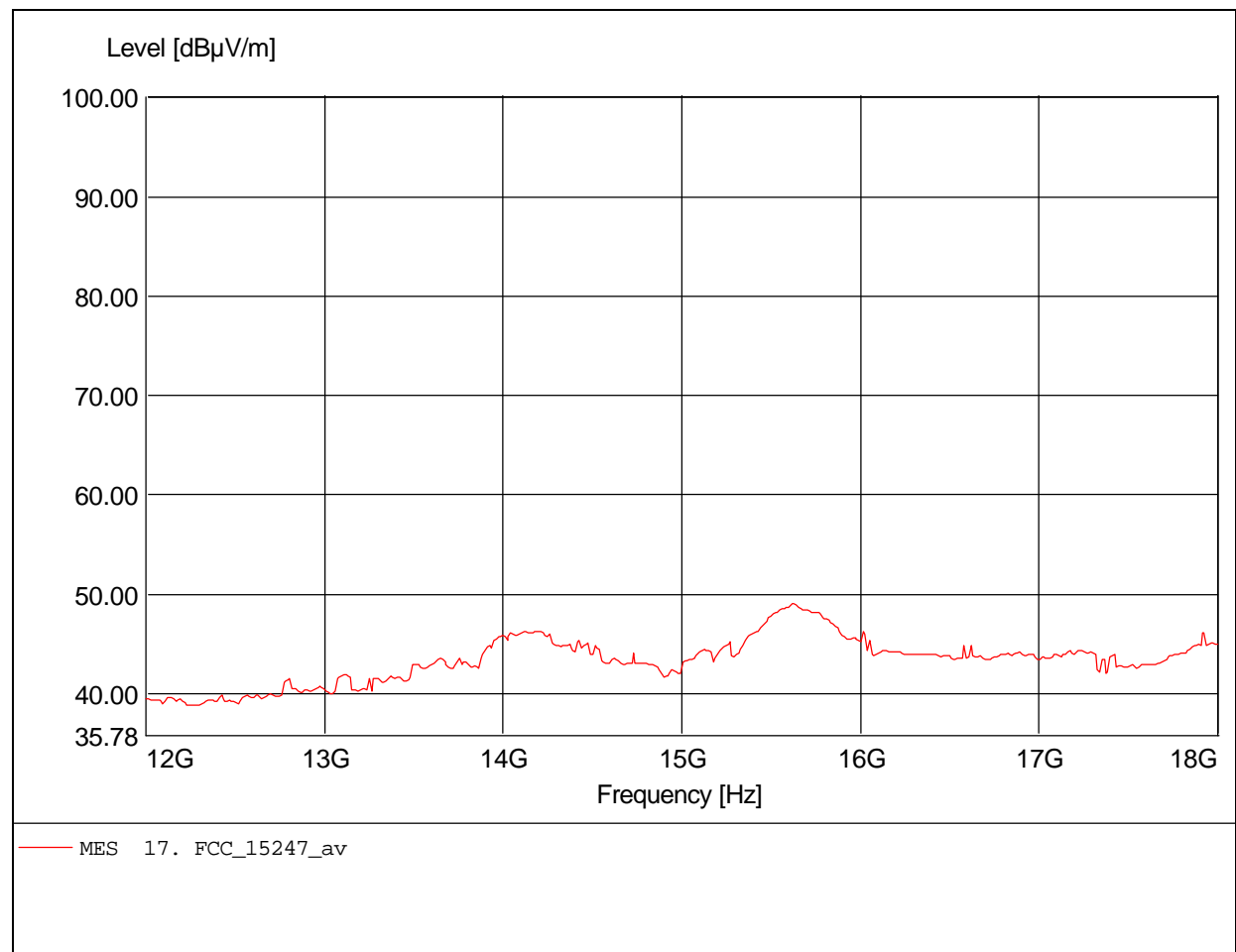


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 15.619GHz, Emax: 49.02dBμV/m, RBW: 1MHz

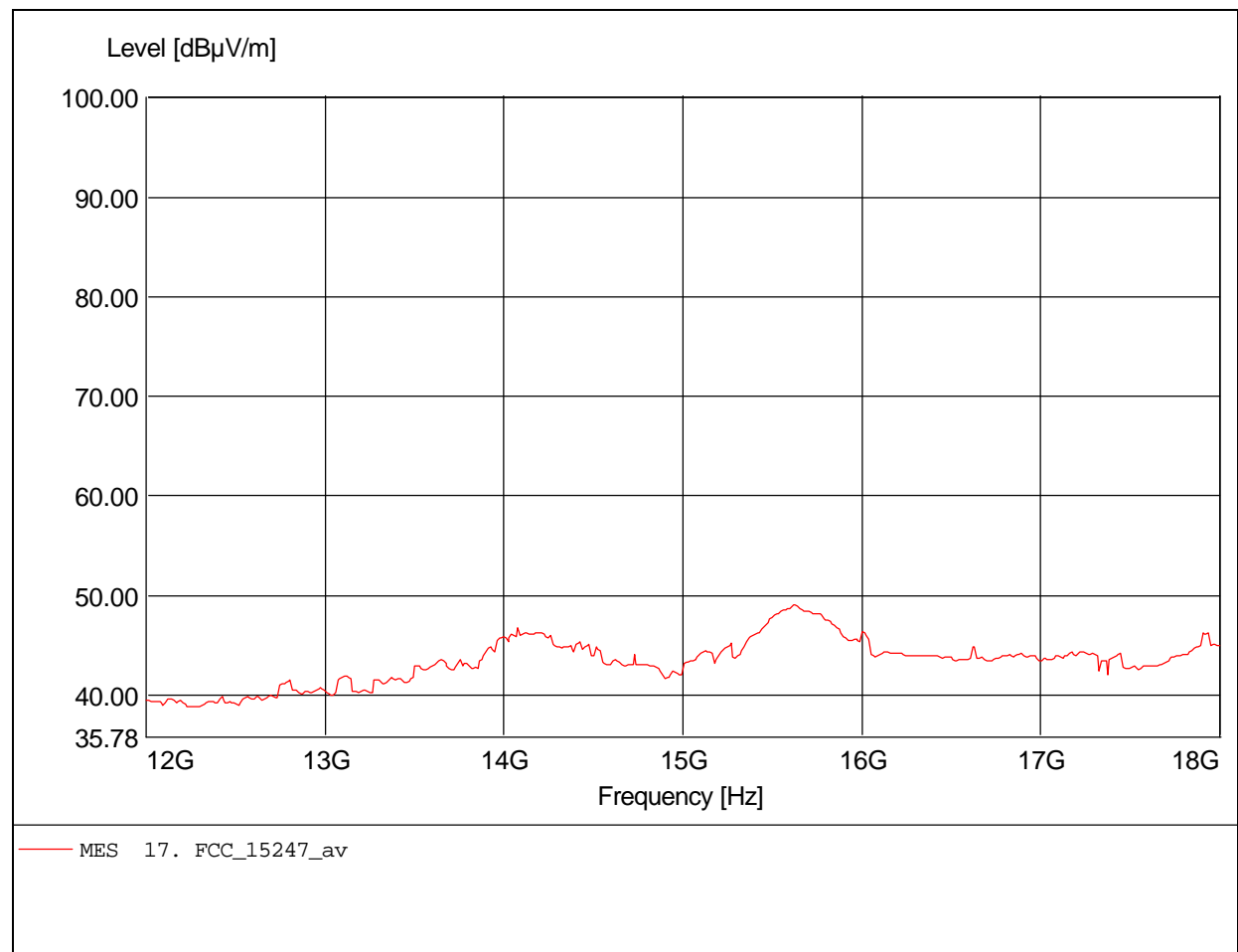


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 15.619GHz, Emax: 49.04dBμV/m, RBW: 1MHz

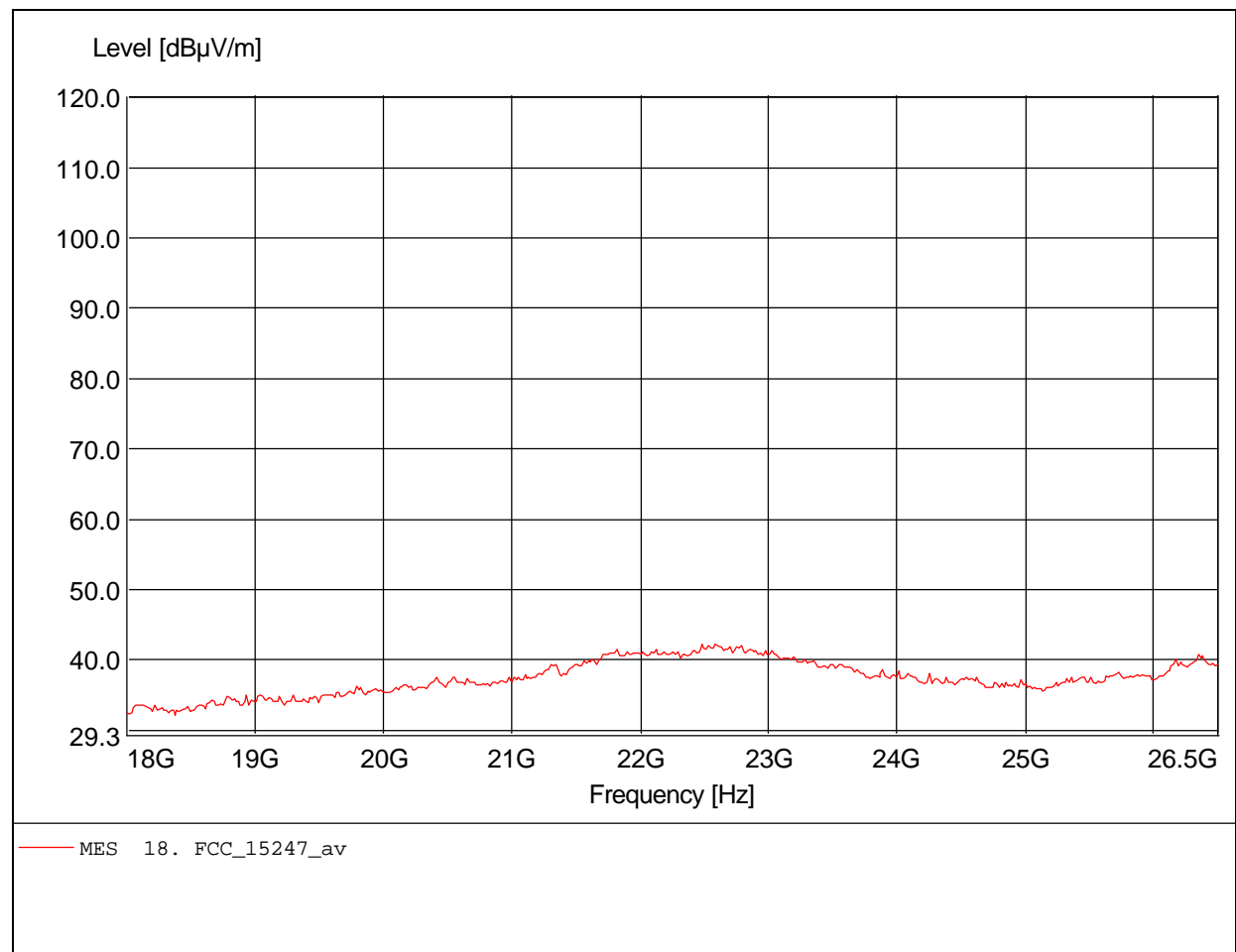


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 22.480GHz, Emax: 42.30dBμV/m, RBW: 1MHz

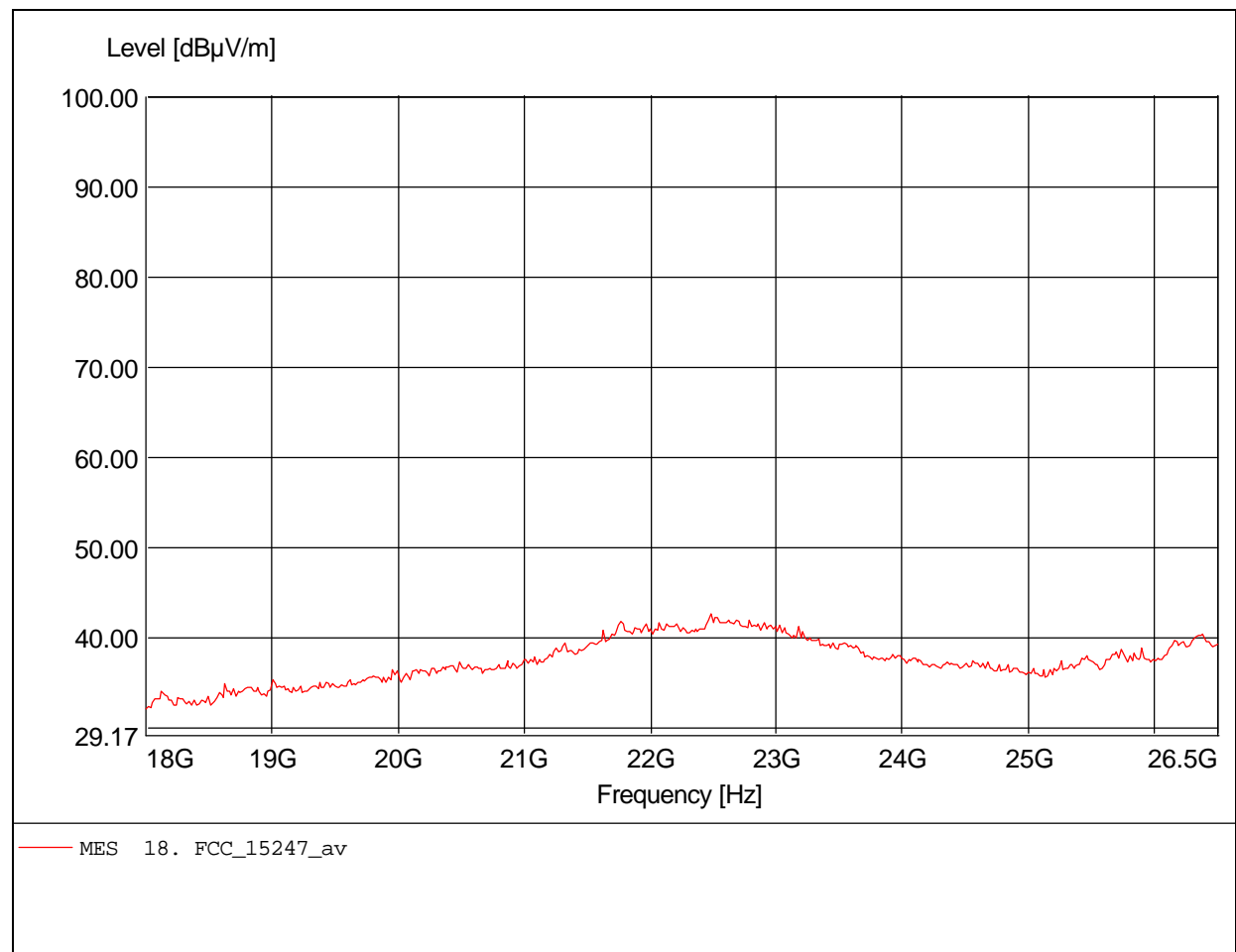


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 22.480GHz, Emax: 42.64dBμV/m, RBW: 1MHz

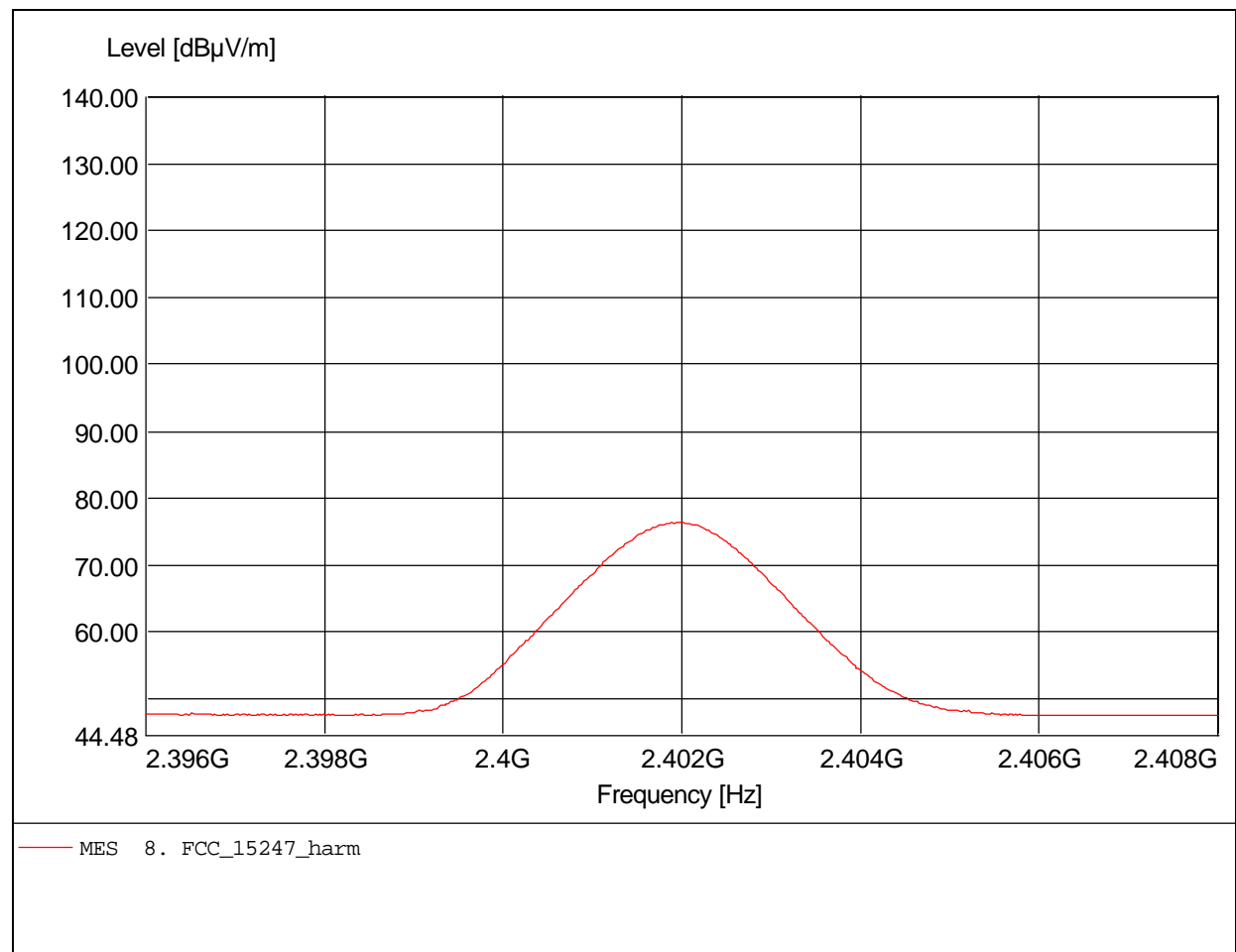


Antenna vertical

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.402GHz, Emax: 76.35dBμV/m, RBW: 1MHz

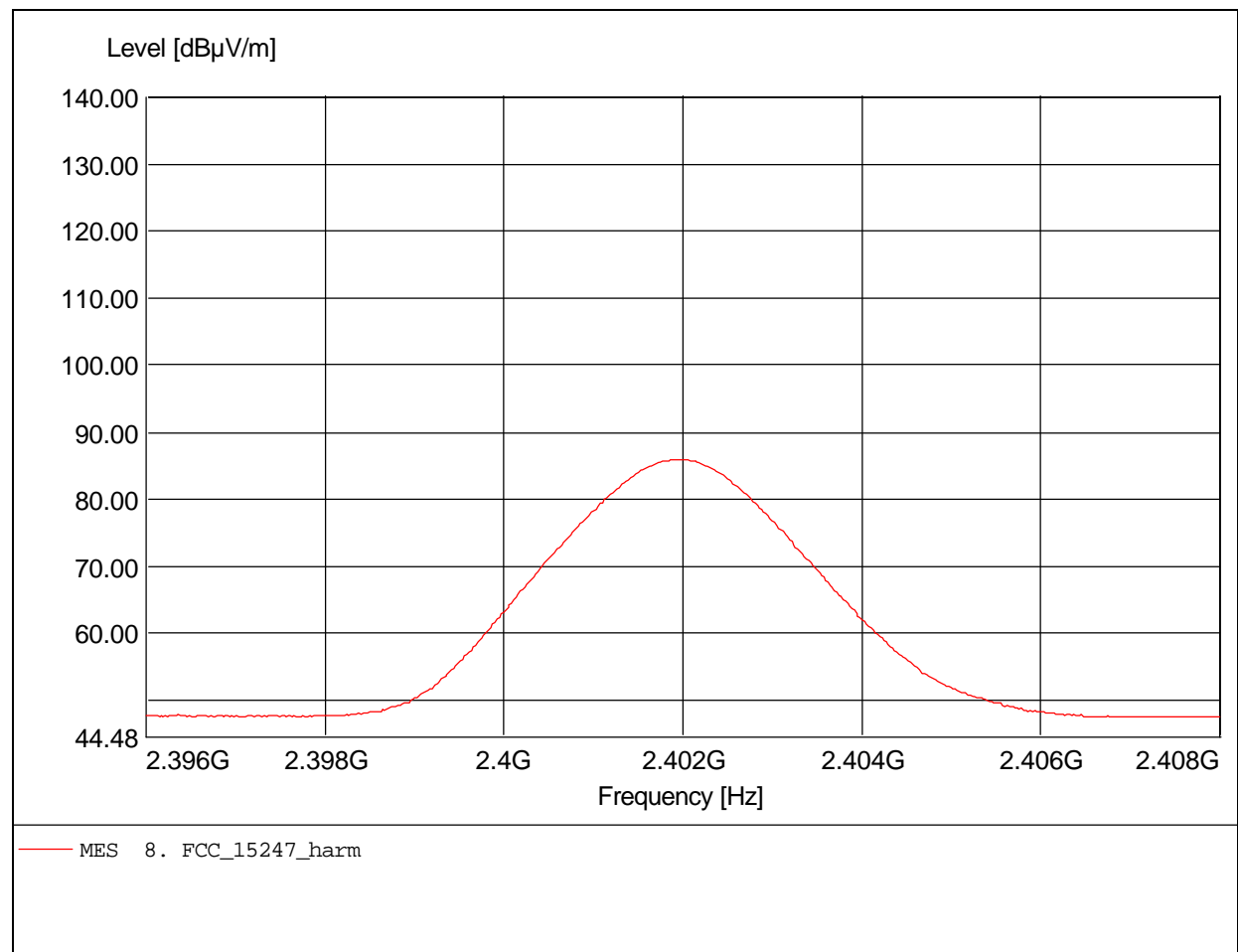


Antenna horizontal

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.402 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.402GHz, Emax: 85.94dBμV/m, RBW: 1MHz

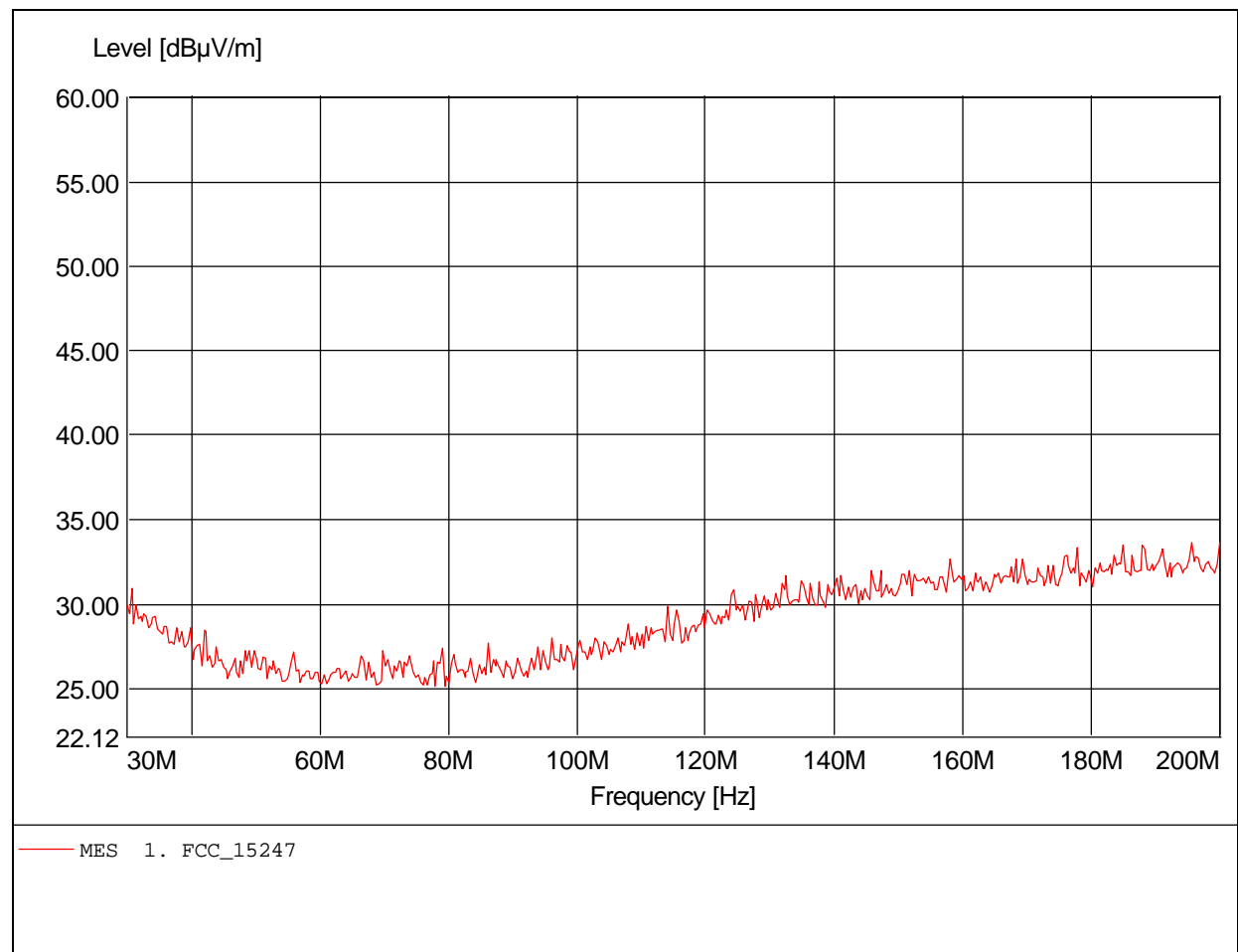


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 195.571MHz, Emax: 33.64dBμV/m, RBW: 100kHz

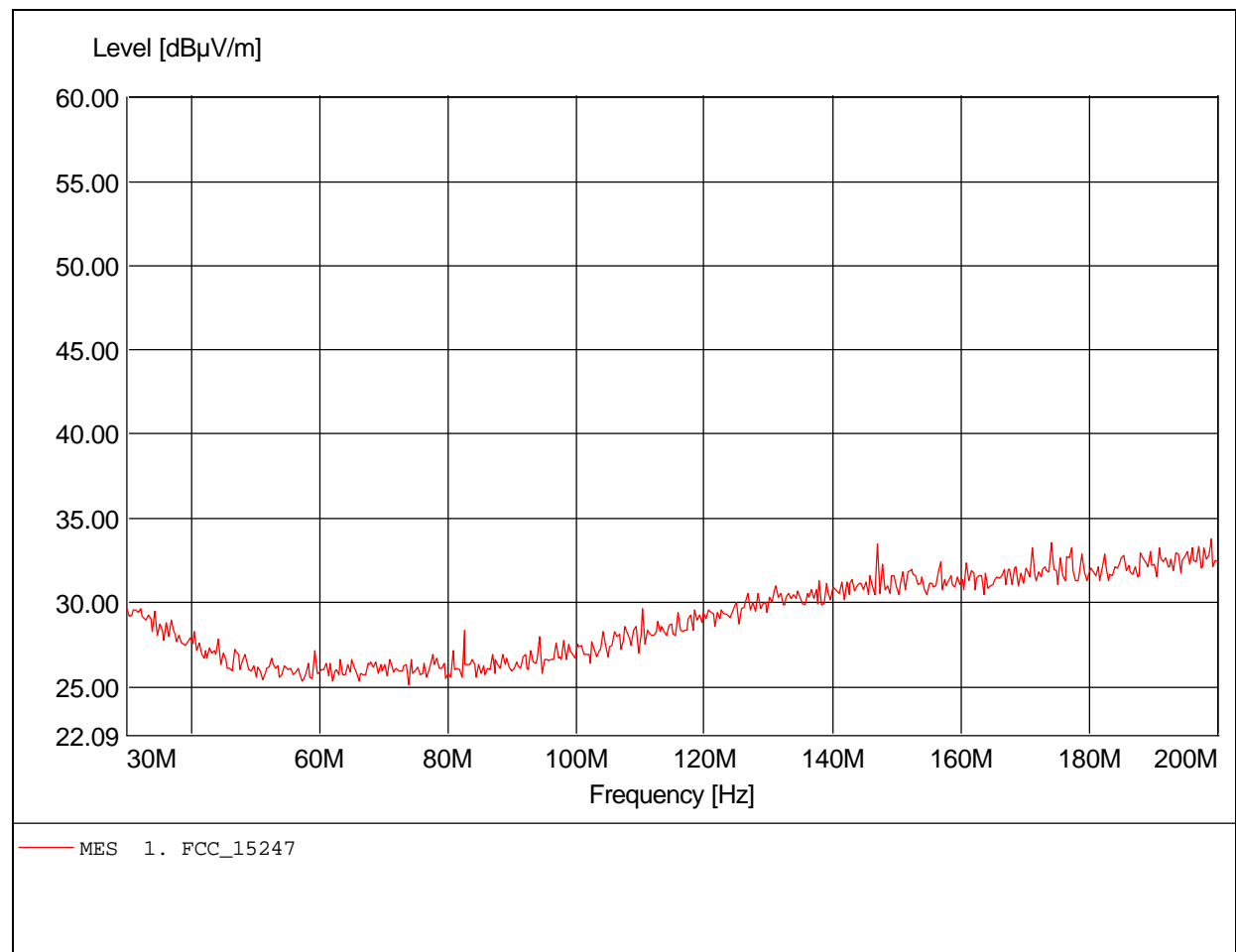


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 198.978MHz, Emax: 33.83dBμV/m, RBW: 100kHz

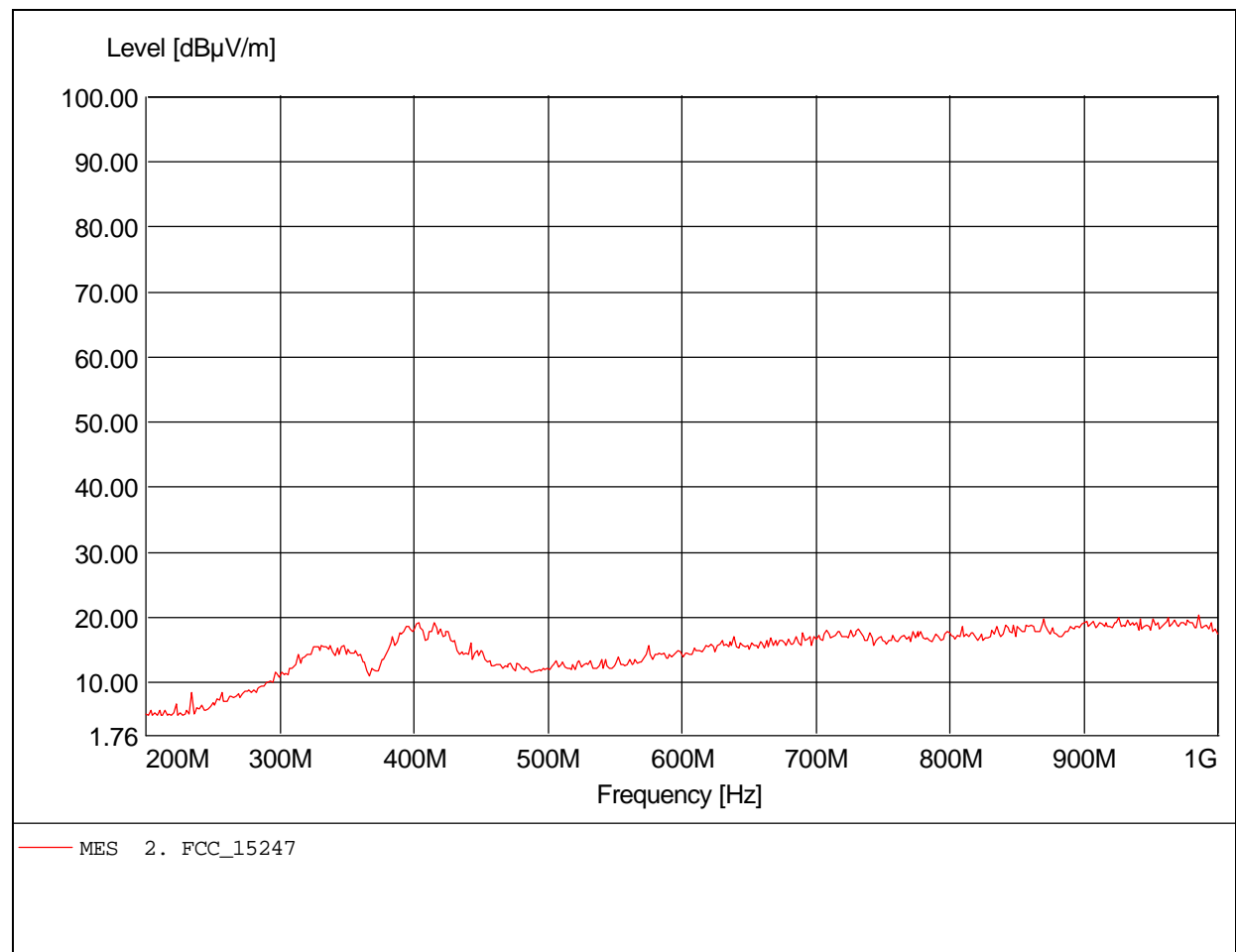


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 985.571MHz, Emax: 20.30dBμV/m, RBW: 100kHz

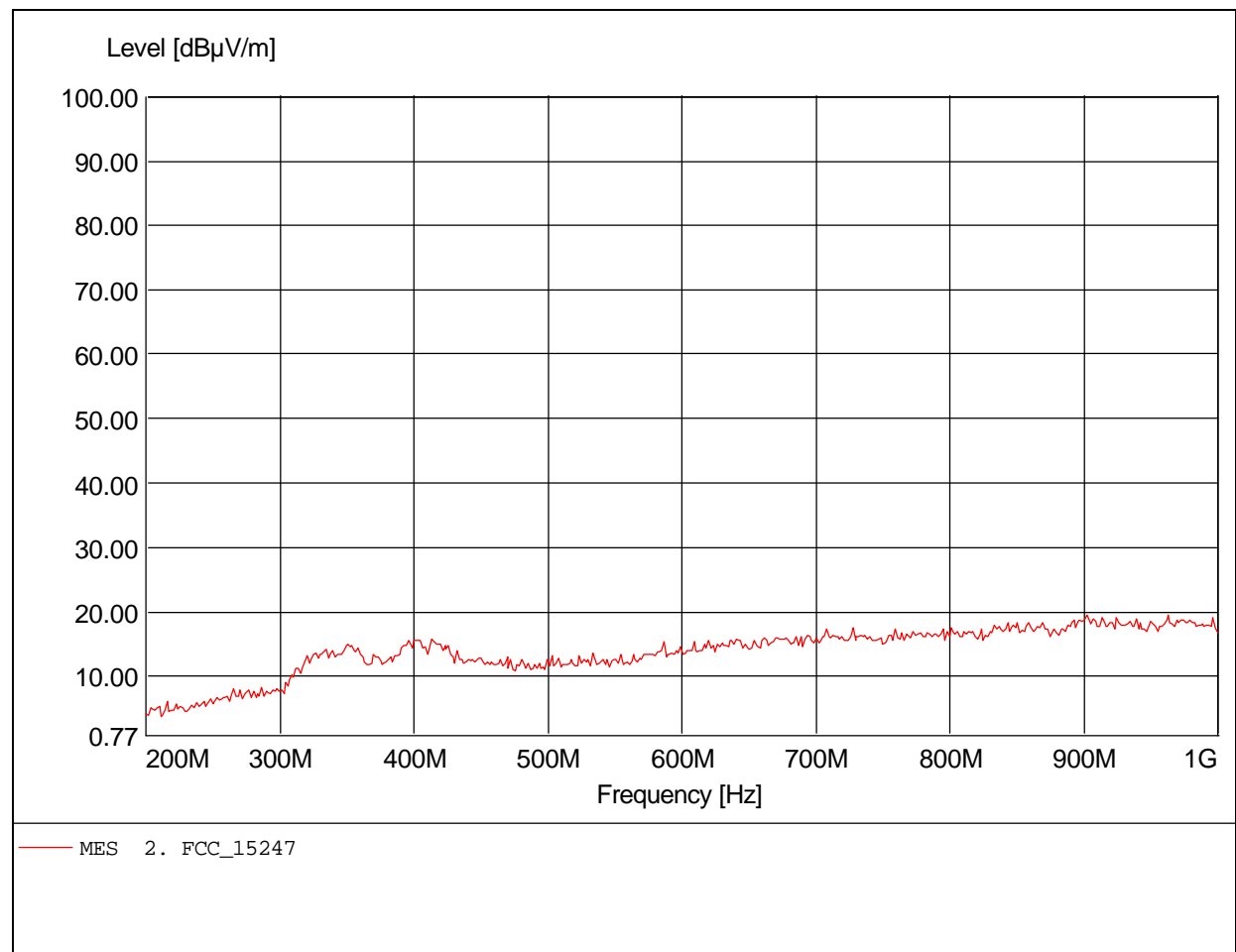


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 963.126MHz, Emax: 19.45dBμV/m, RBW: 100kHz

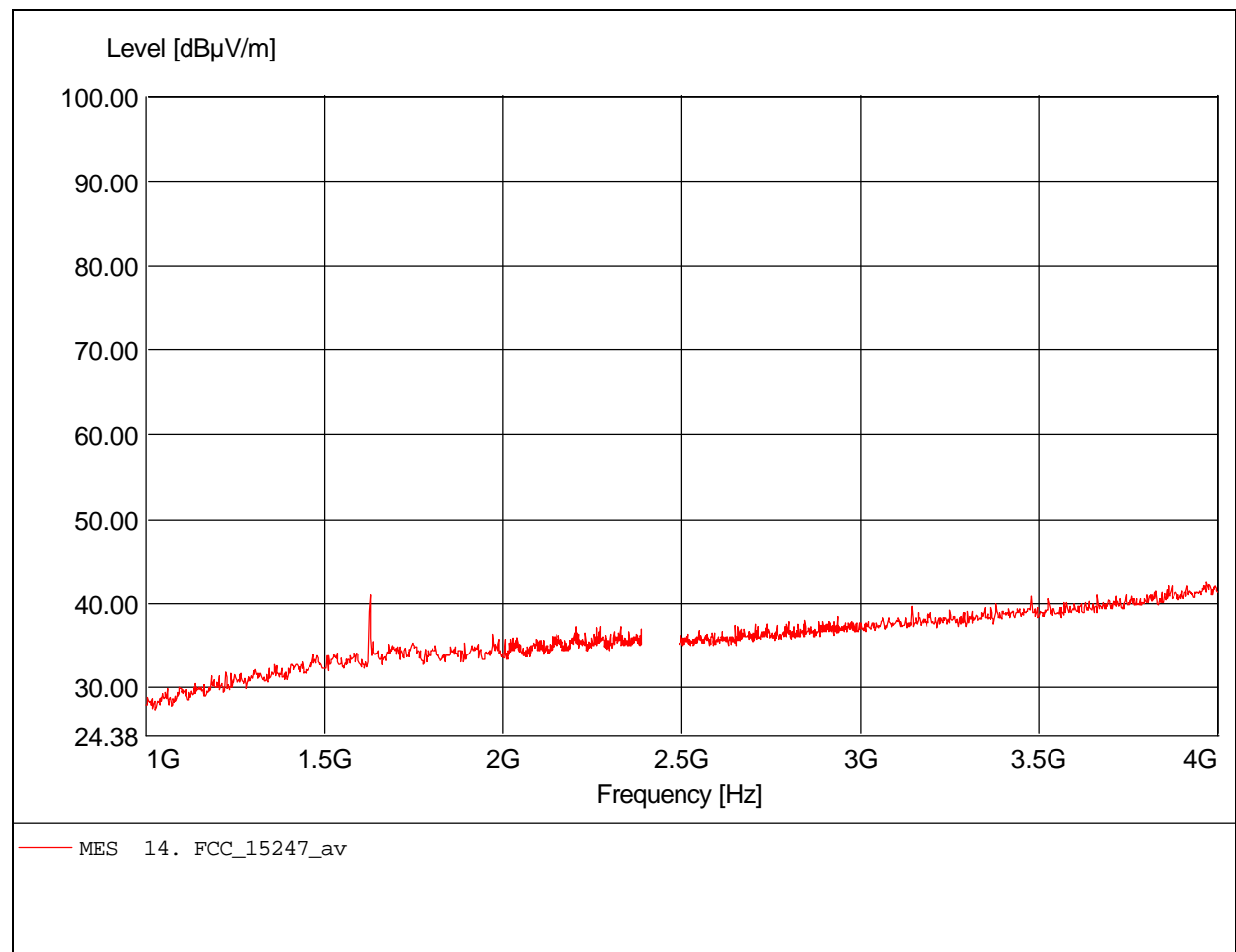


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 3.970GHz, Emax: 42.54dBμV/m, RBW: 1MHz

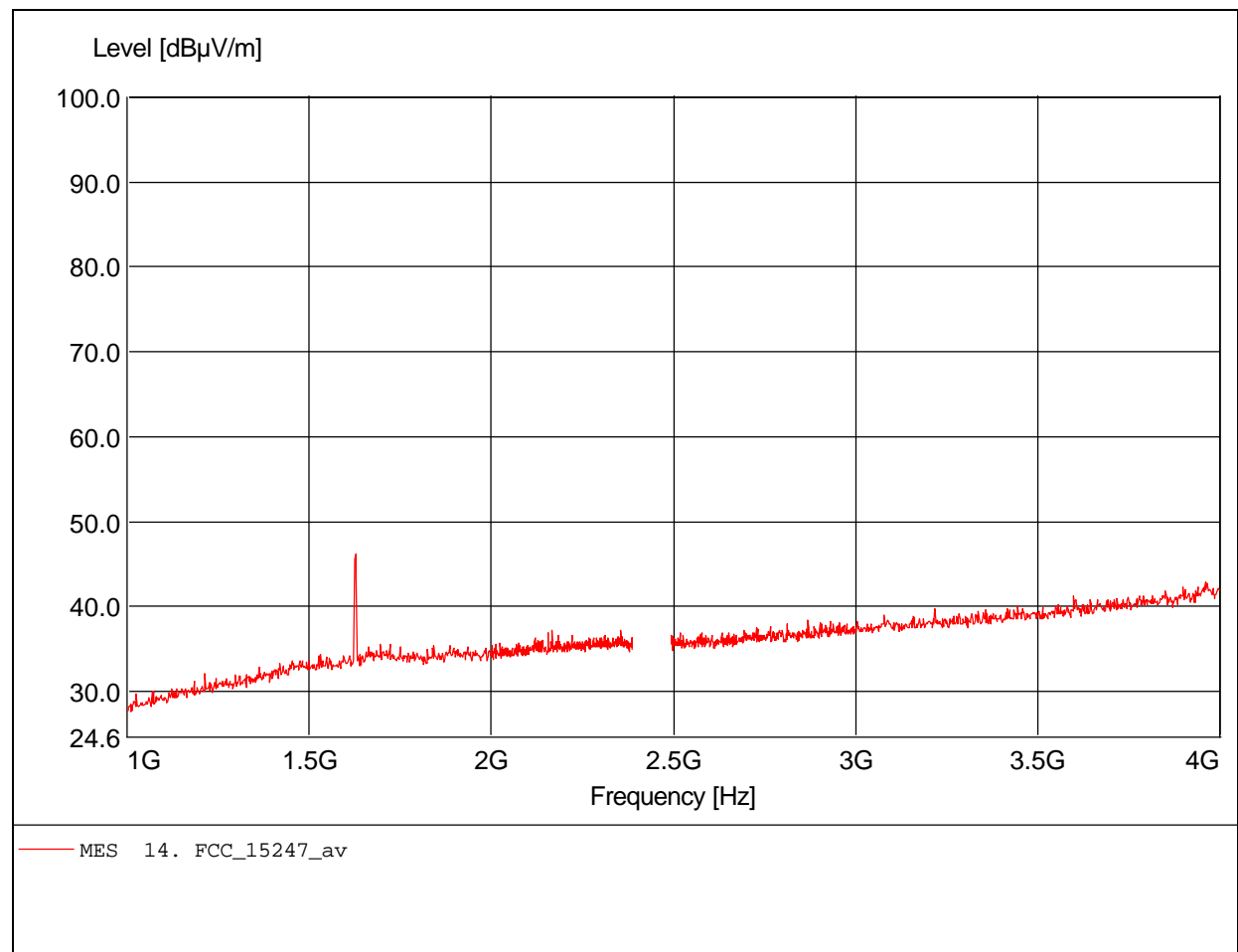


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 1.627GHz, Emax: 46.20dBμV/m, RBW: 1MHz

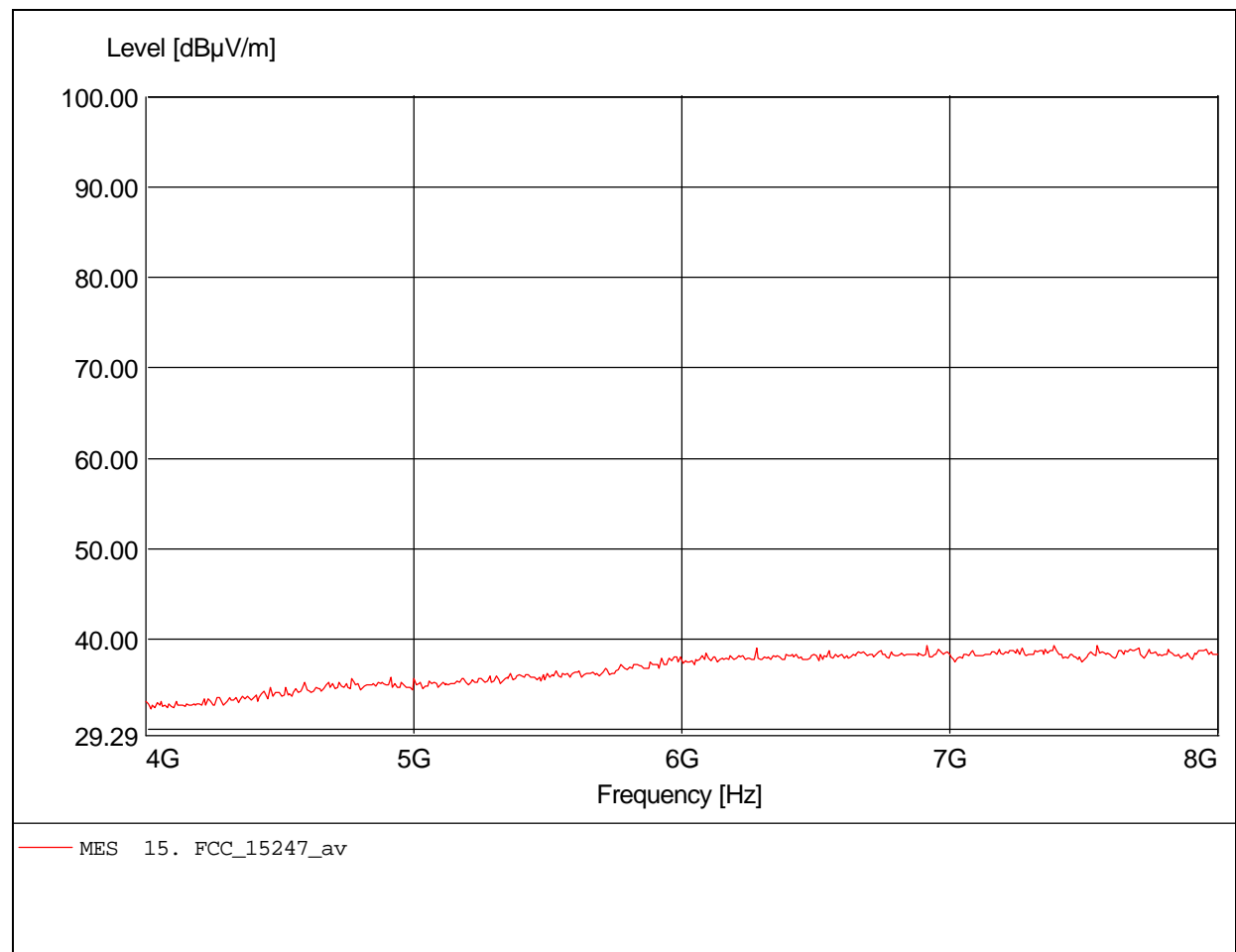


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.391GHz, Emax: 39.35dBμV/m, RBW: 1MHz

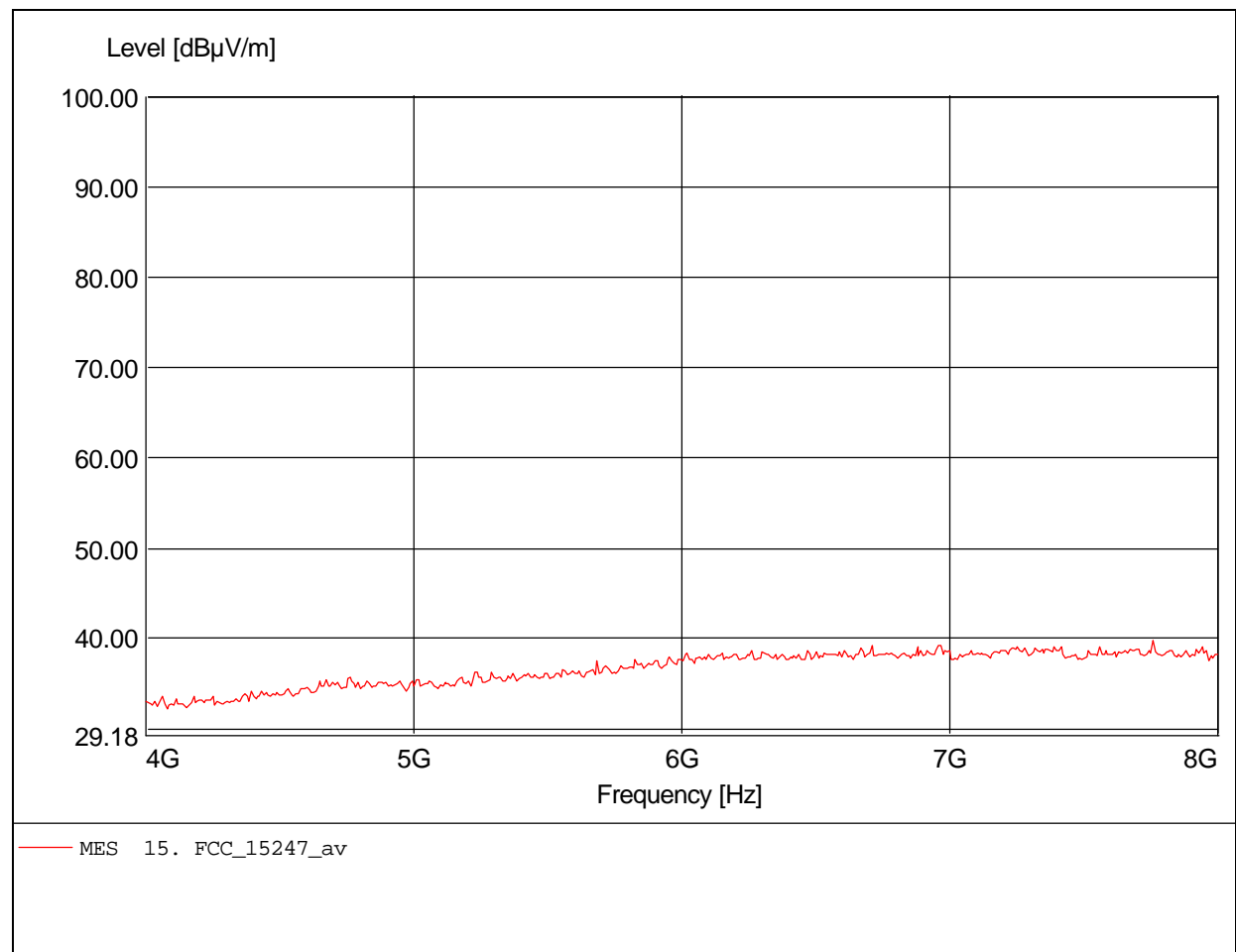


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.760GHz, Emax: 39.81dBμV/m, RBW: 1MHz

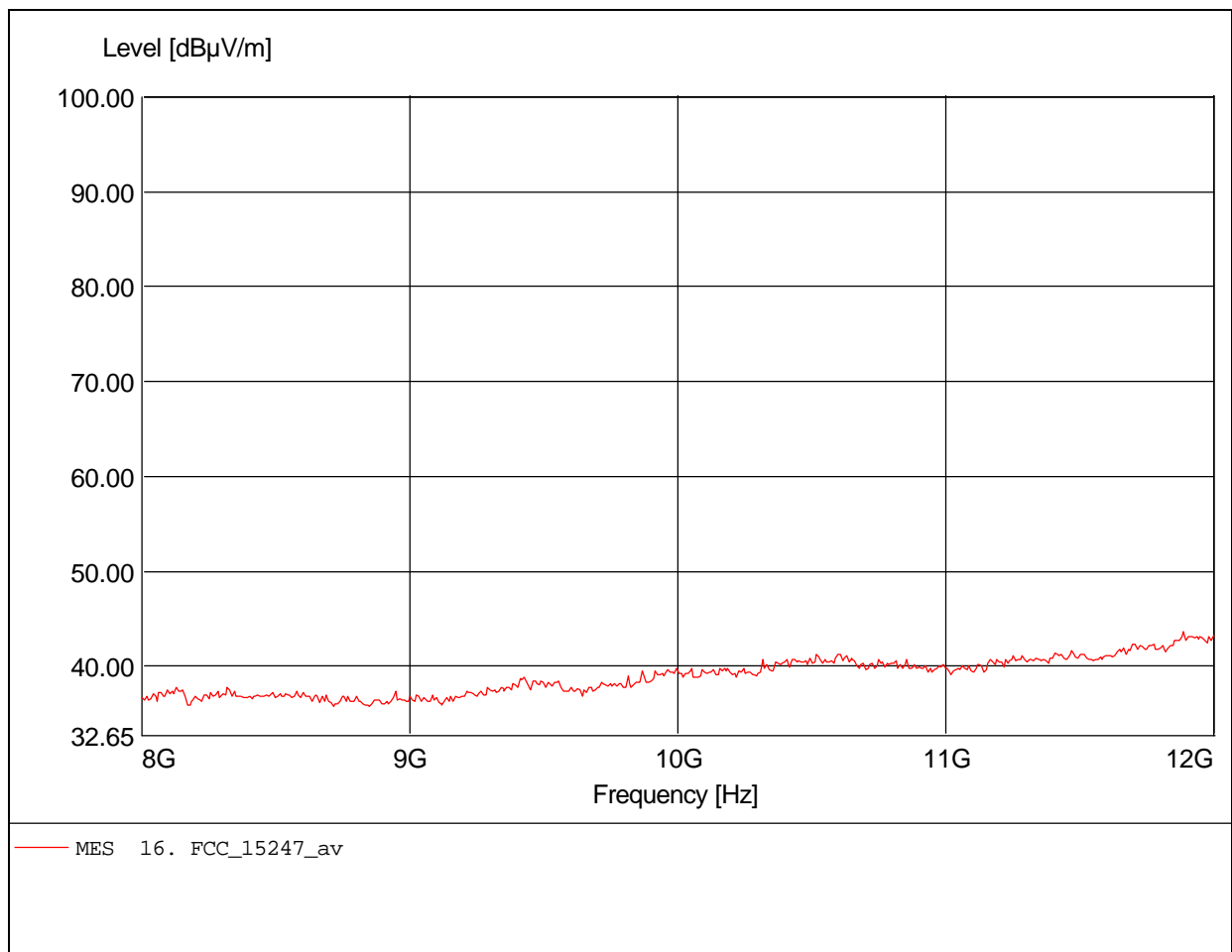


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.888GHz, Emax: 43.53dBμV/m, RBW: 1MHz

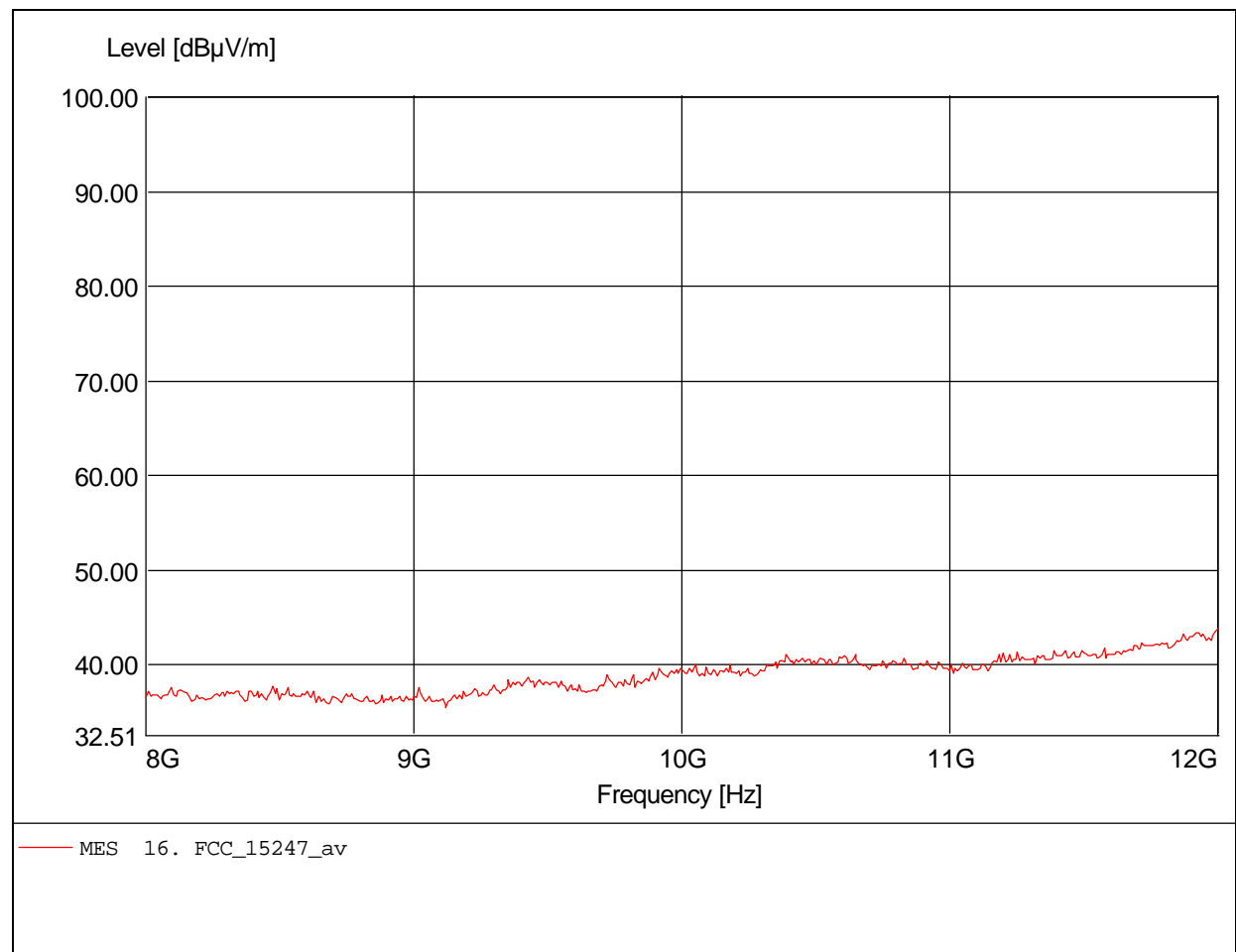


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 12.000GHz, Emax: 43.73dBμV/m, RBW: 1MHz

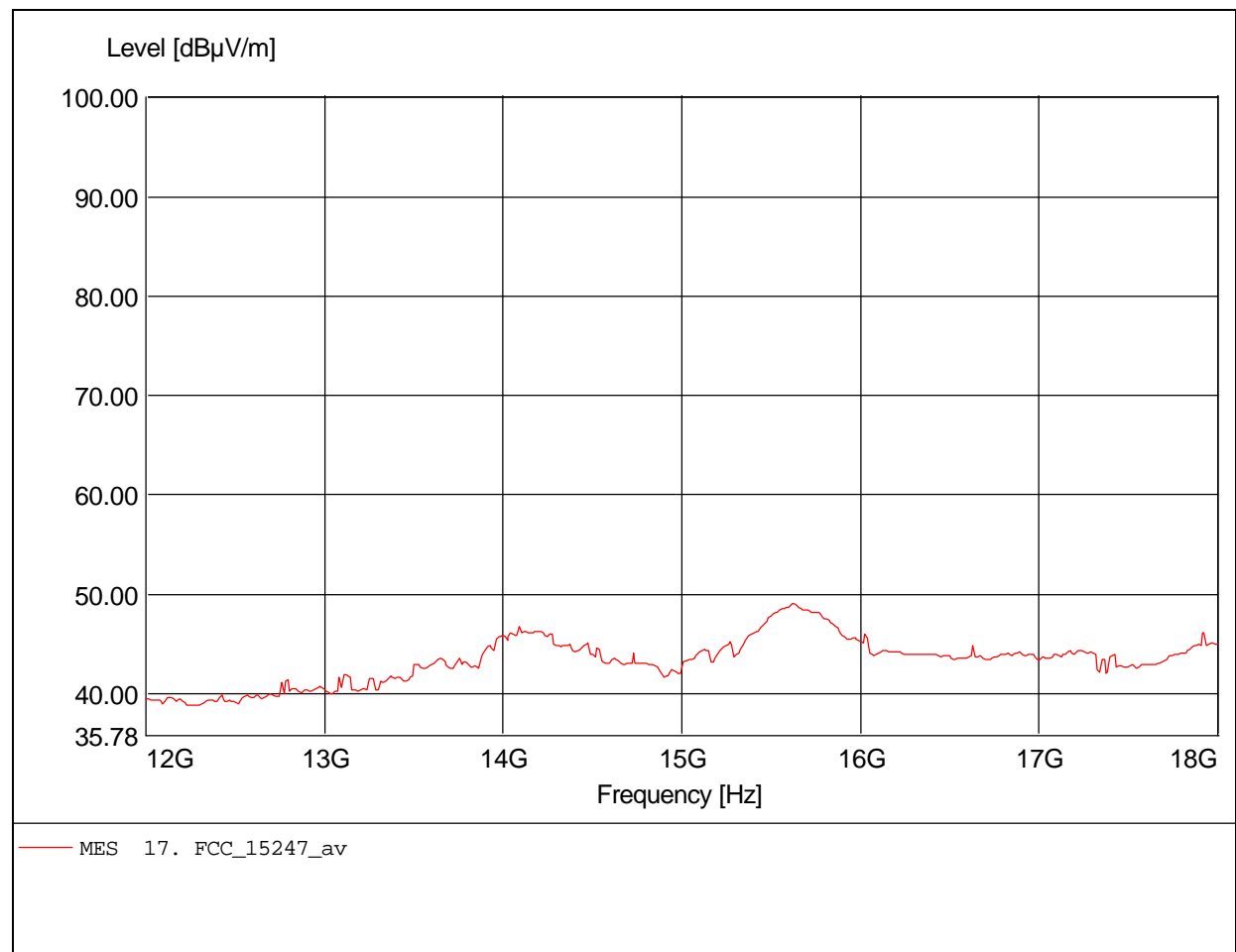


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 15.619GHz, Emax: 49.03dBμV/m, RBW: 1MHz

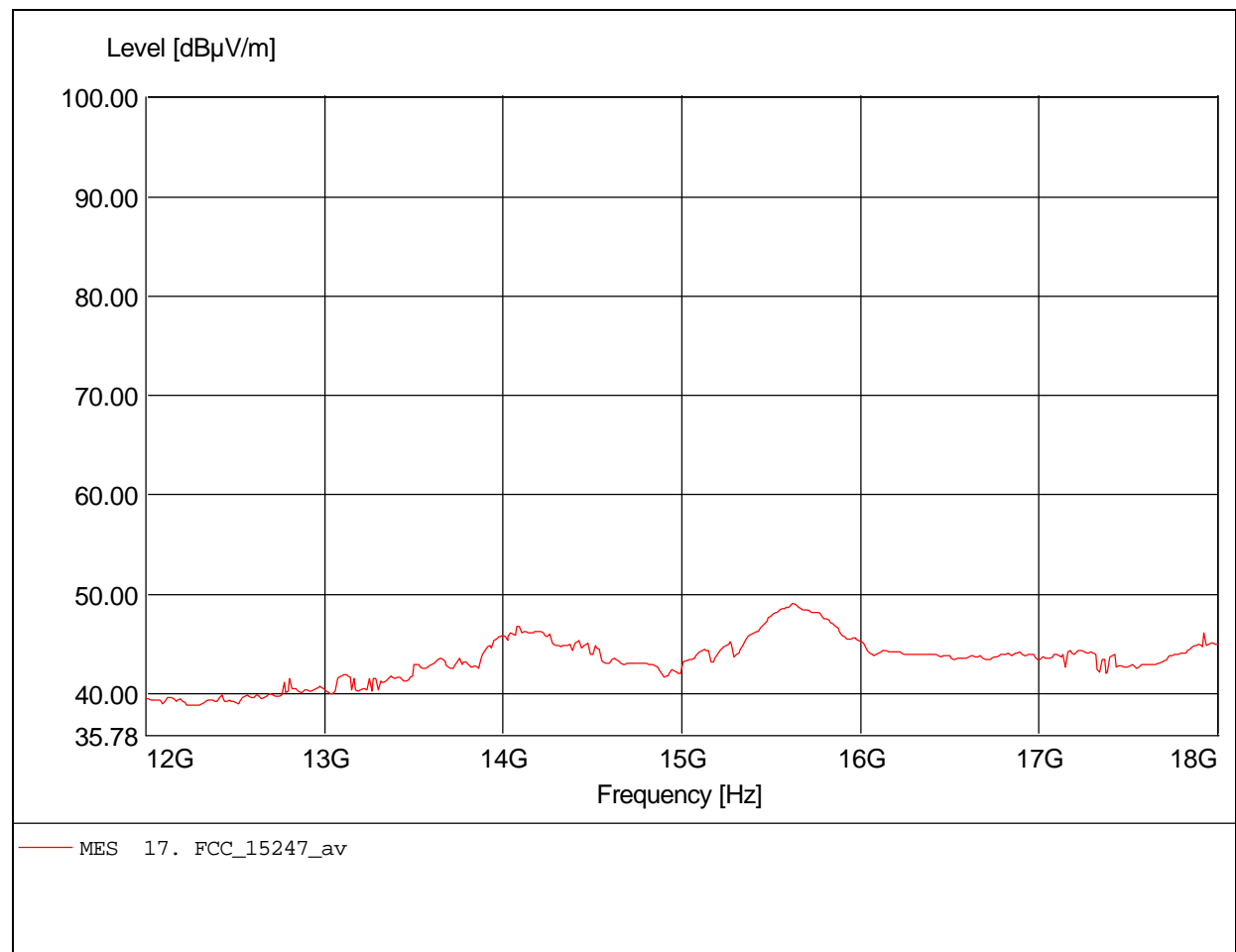


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 15.619GHz, Emax: 49.02dBμV/m, RBW: 1MHz

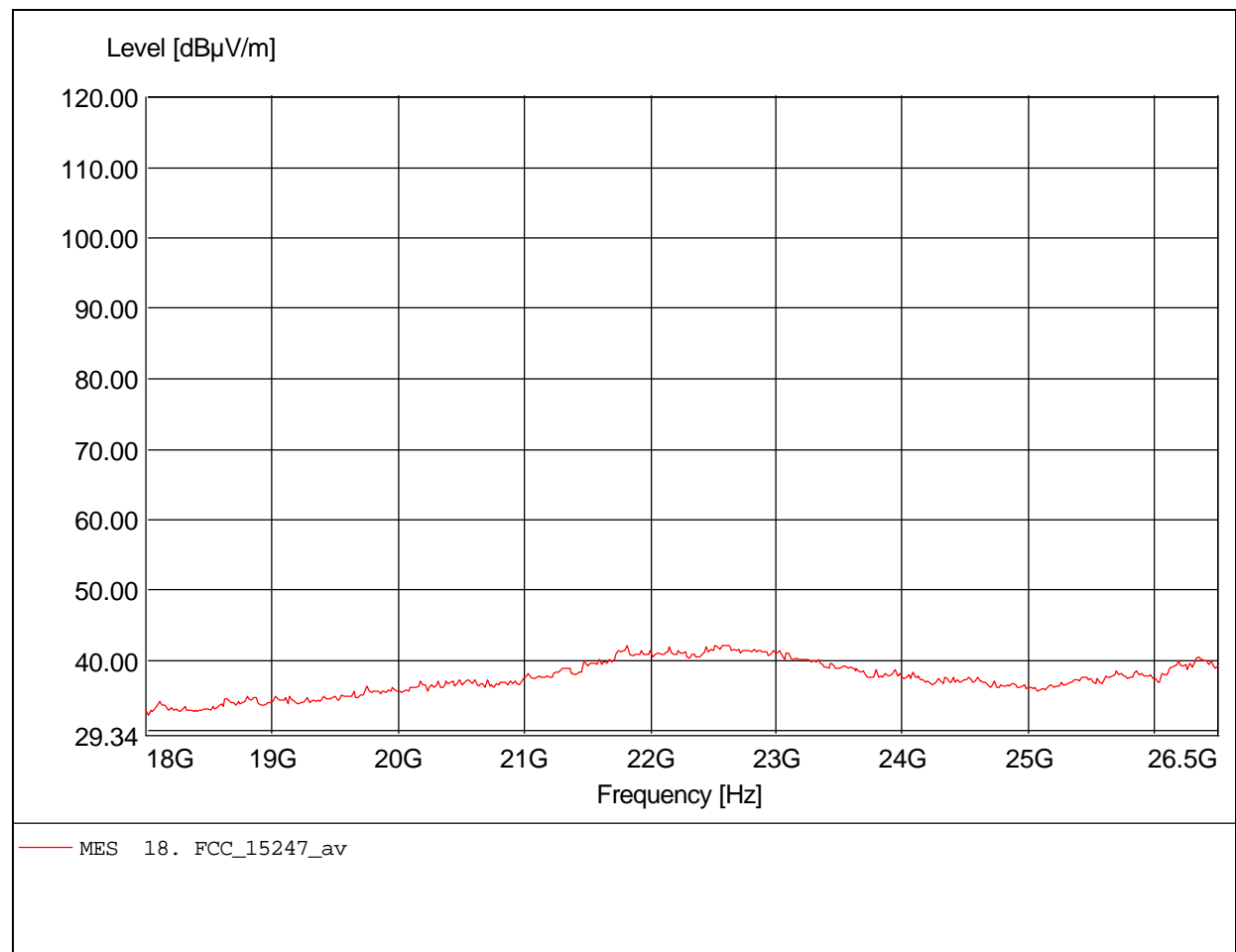


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 22.599GHz, Emax: 42.16dBμV/m, RBW: 1MHz

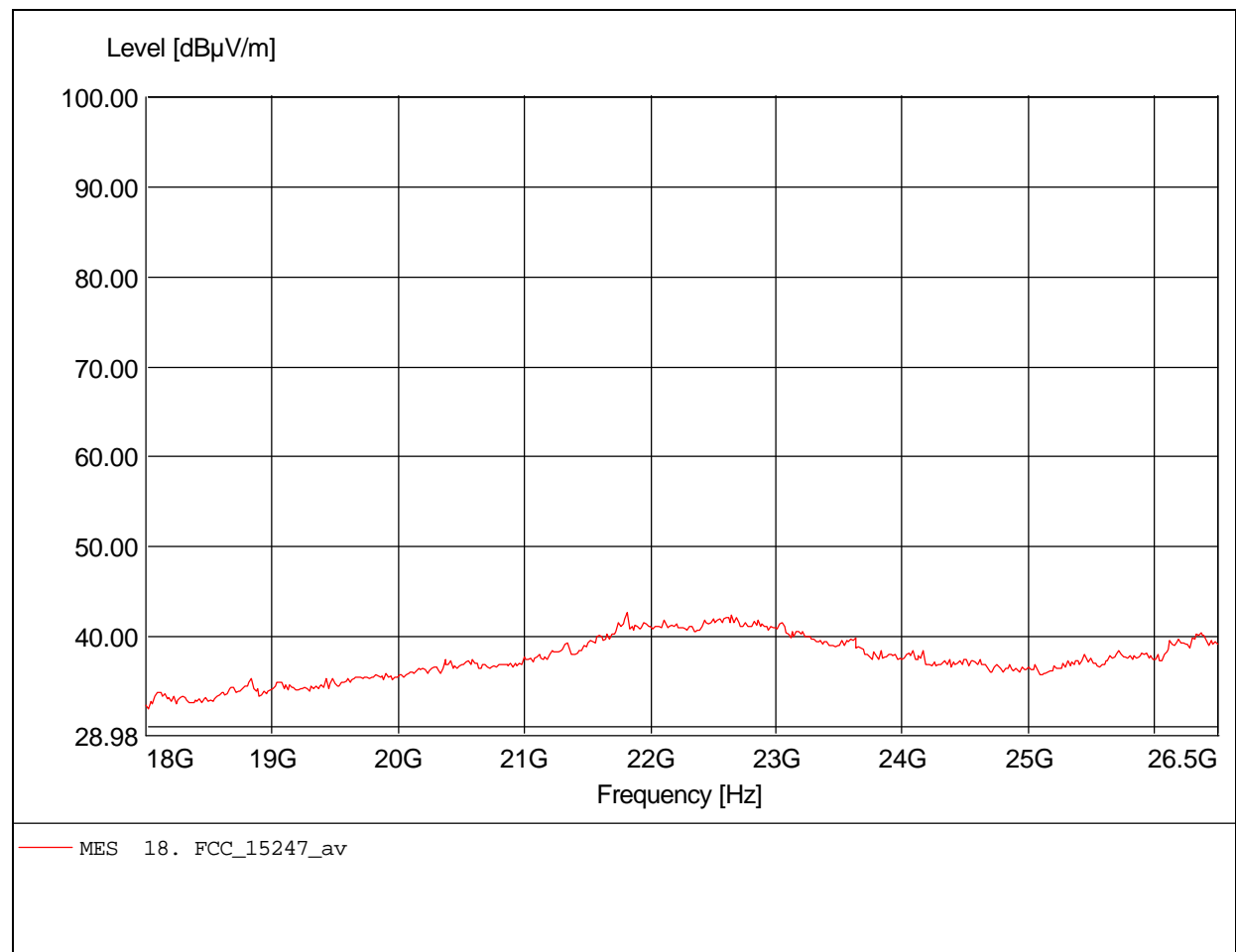


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 21.816GHz, Emax: 42.56dBμV/m, RBW: 1MHz

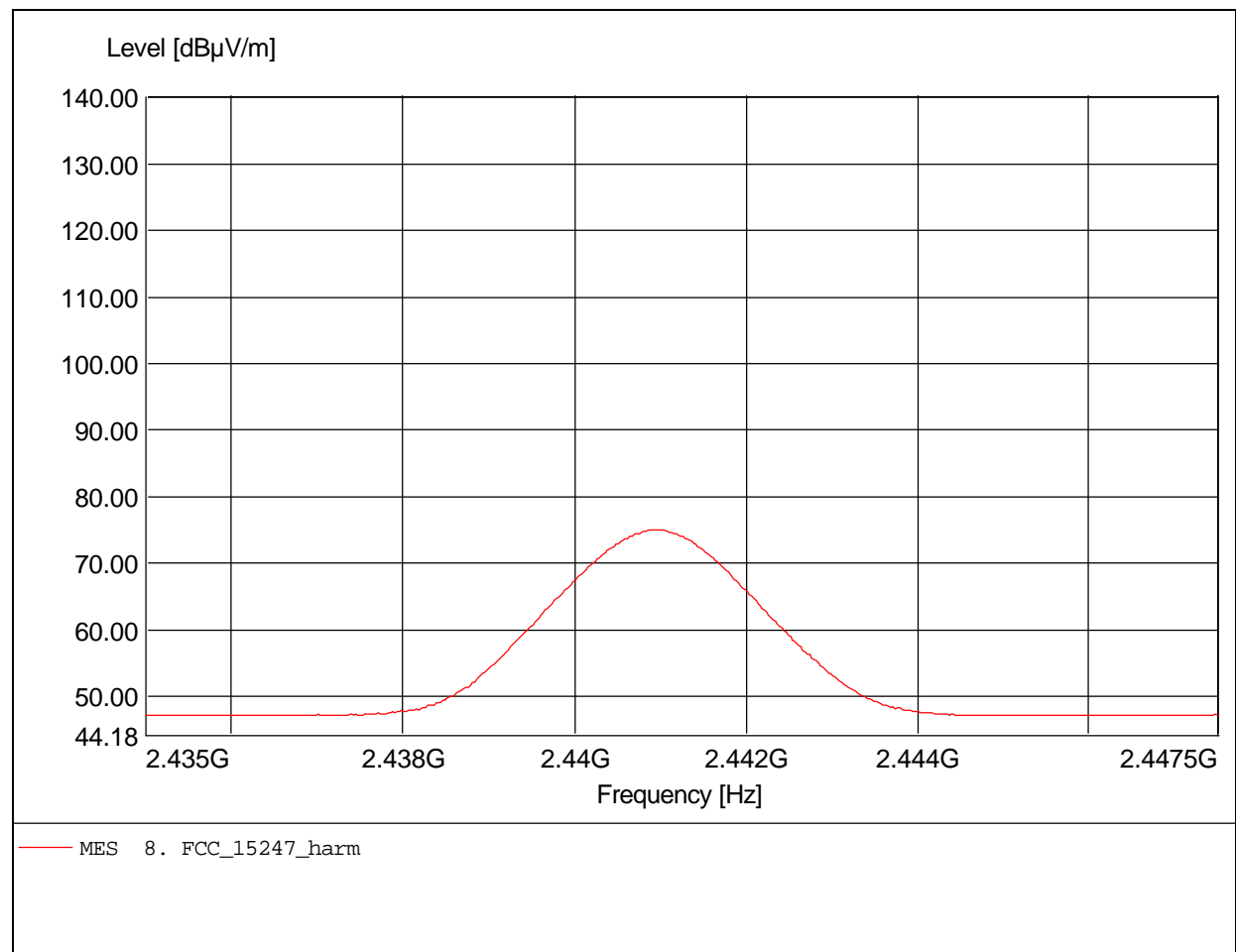


Antenna vertical

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.441GHz, Emax: 75.00dBμV/m, RBW: 1MHz

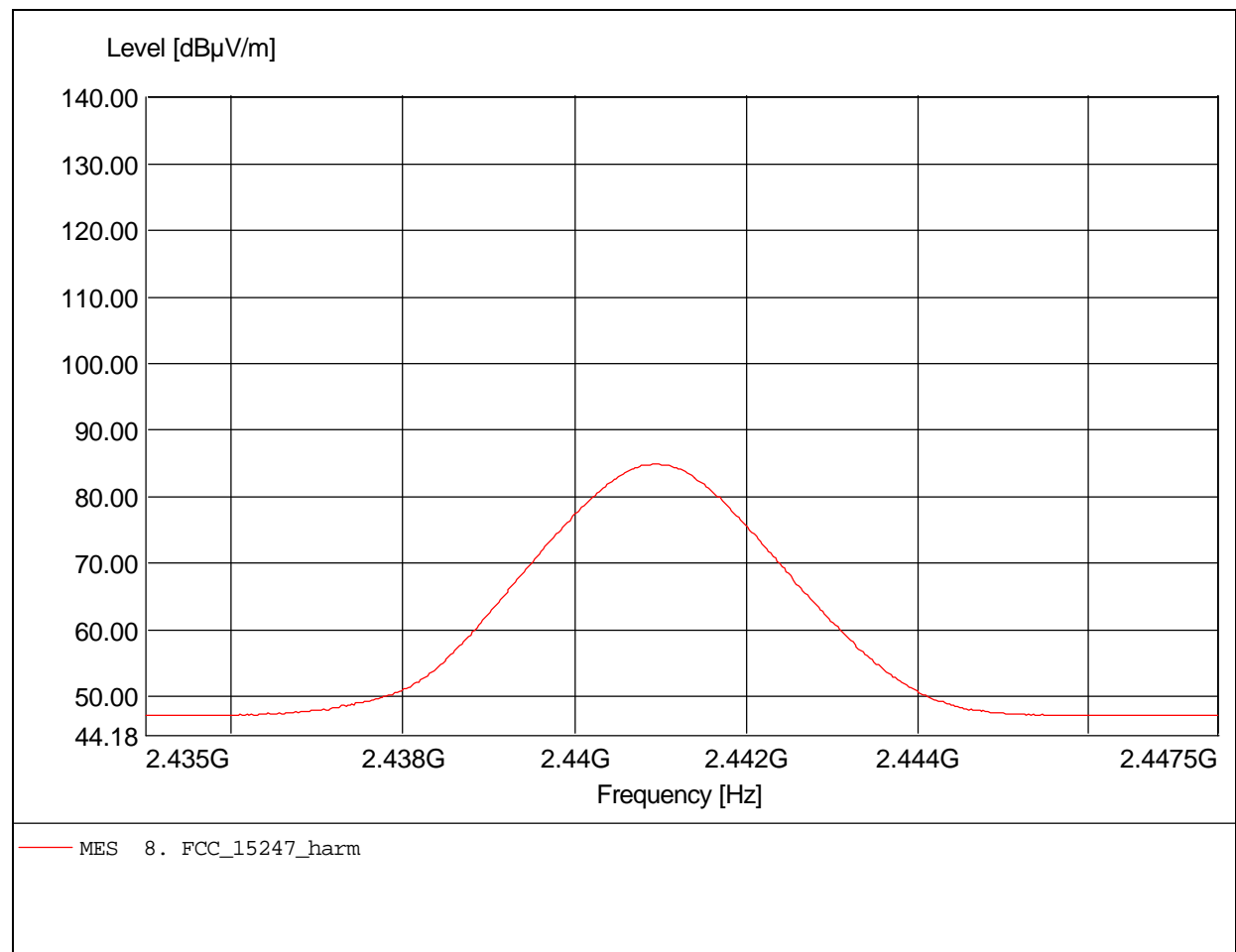


Antenna horizontal

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.441 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.441GHz, Emax: 84.95dBμV/m, RBW: 1MHz

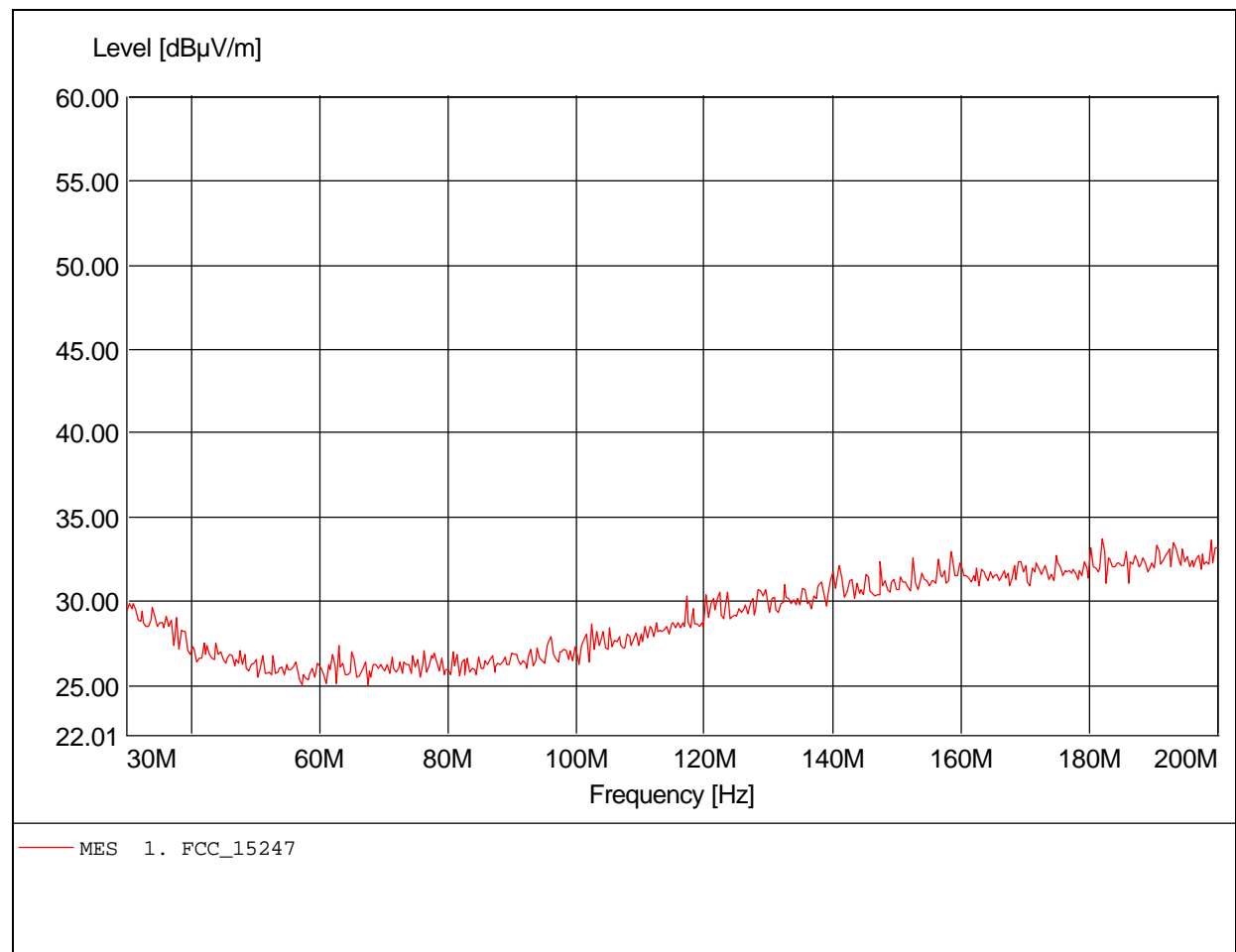


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 181.944MHz, Emax: 33.76dBμV/m, RBW: 100kHz

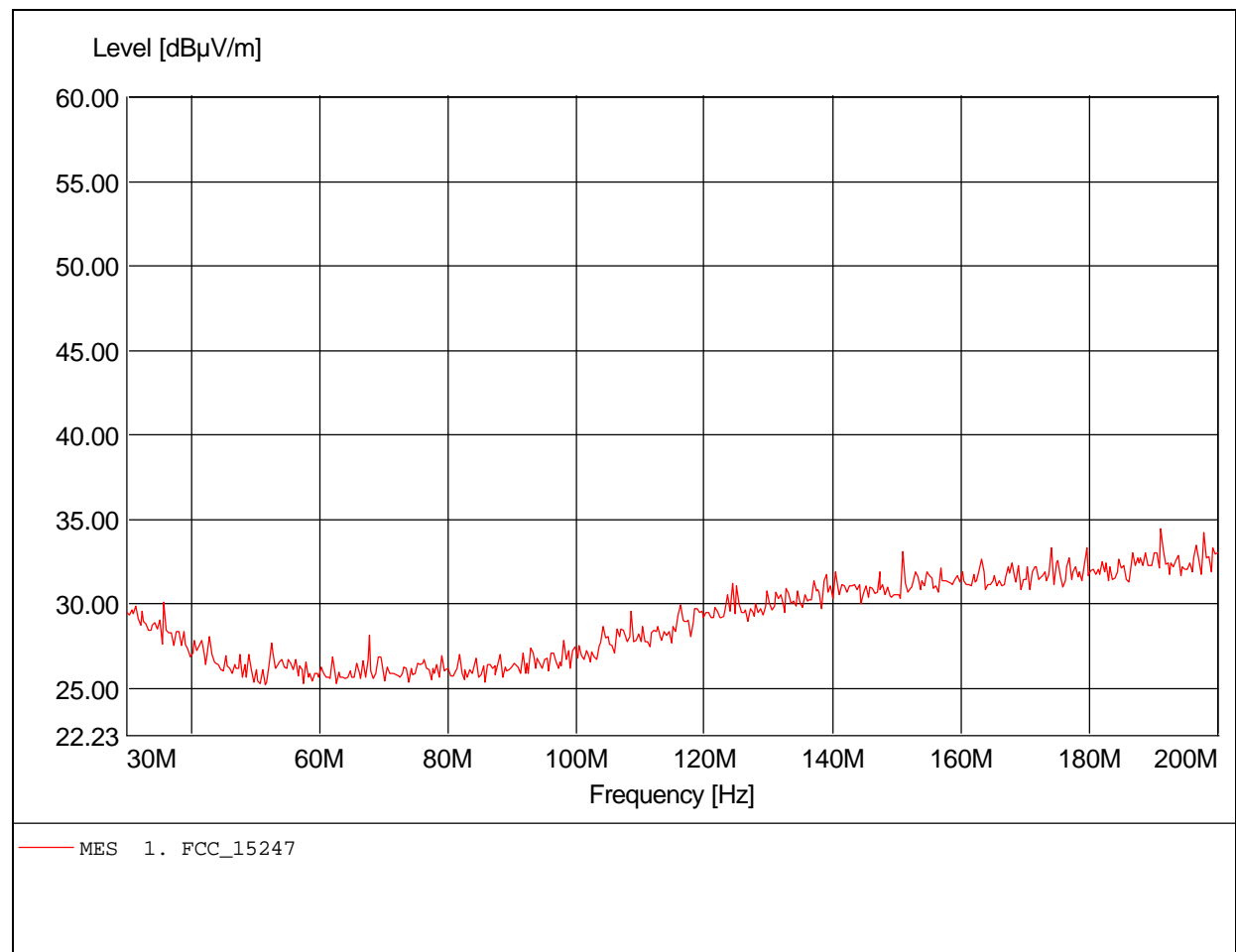


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 191.142MHz, Emax: 34.47dBμV/m, RBW: 100kHz

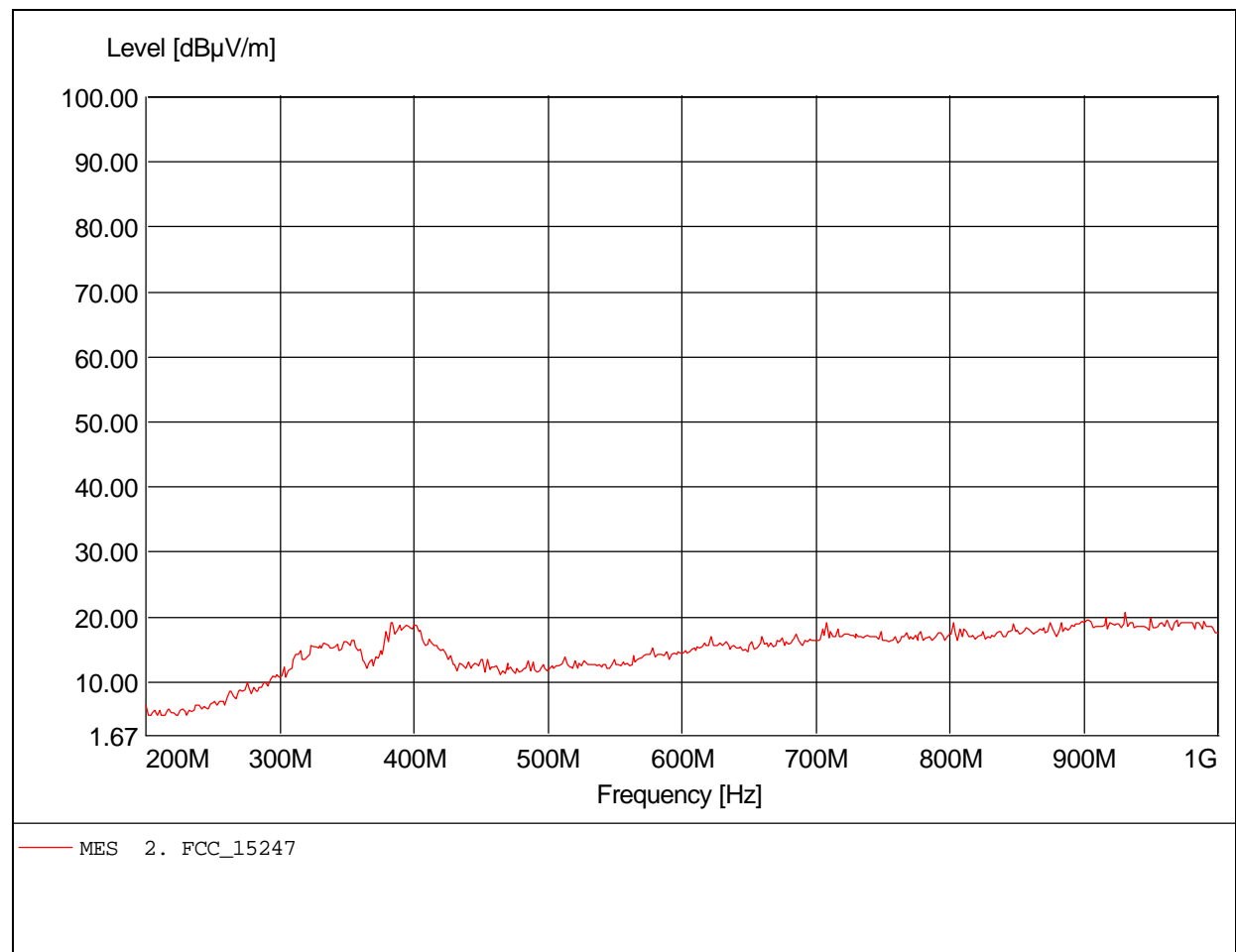


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 931.062MHz, Emax: 20.47dBμV/m, RBW: 100kHz

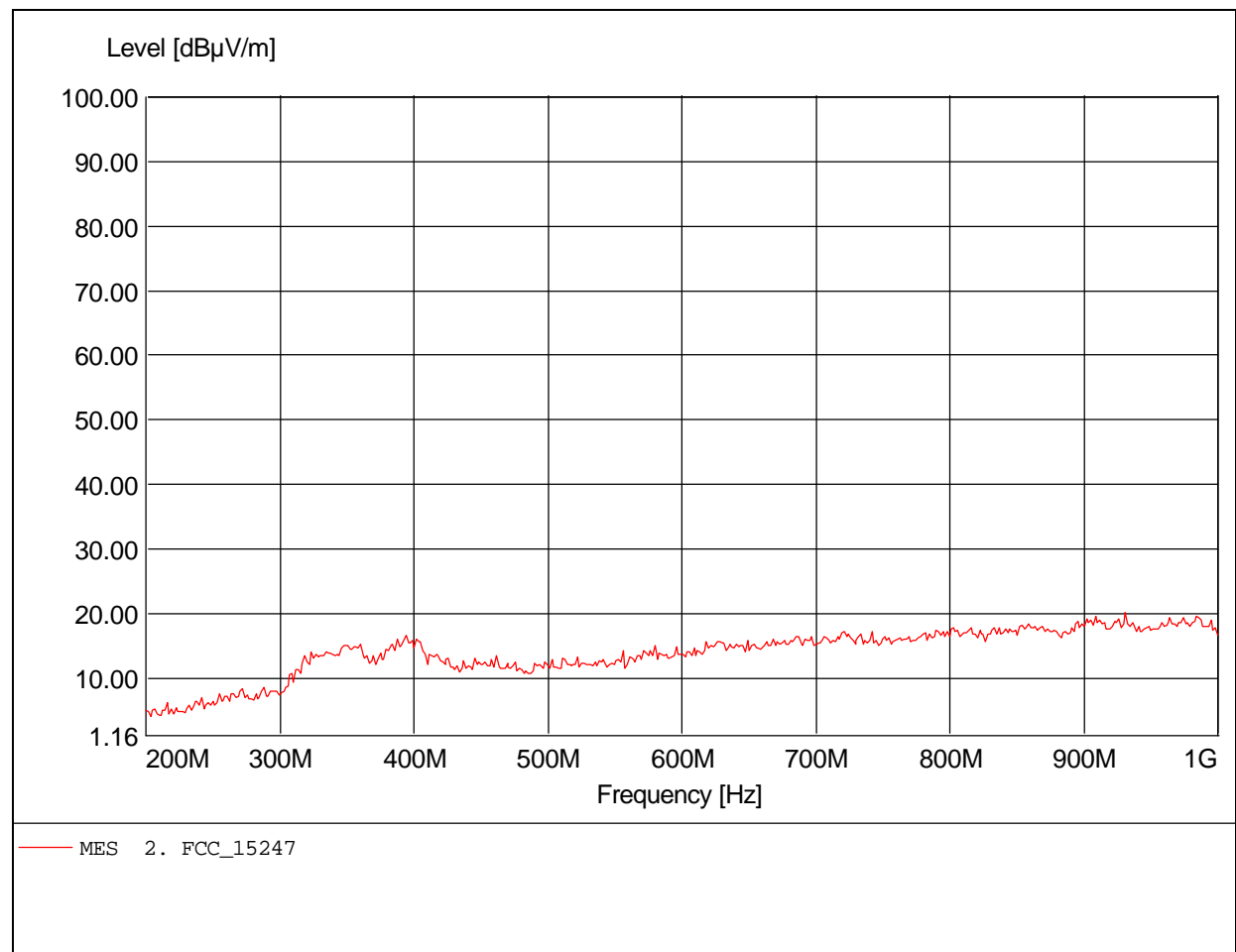


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480GHz)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 931.062MHz, Emax: 20.27dBμV/m, RBW: 100kHz

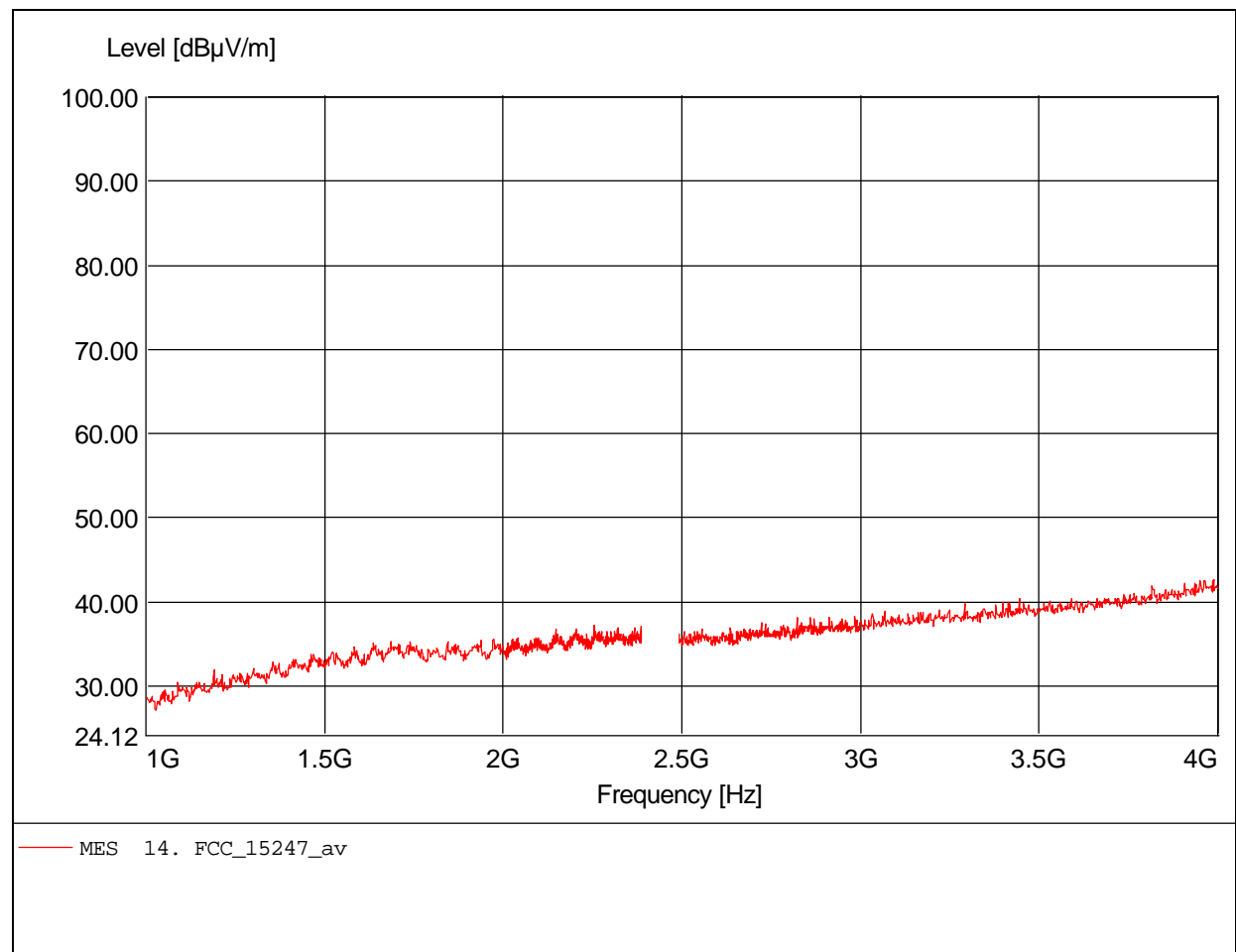


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 3.990GHz, Emax: 42.69dBμV/m, RBW: 1MHz

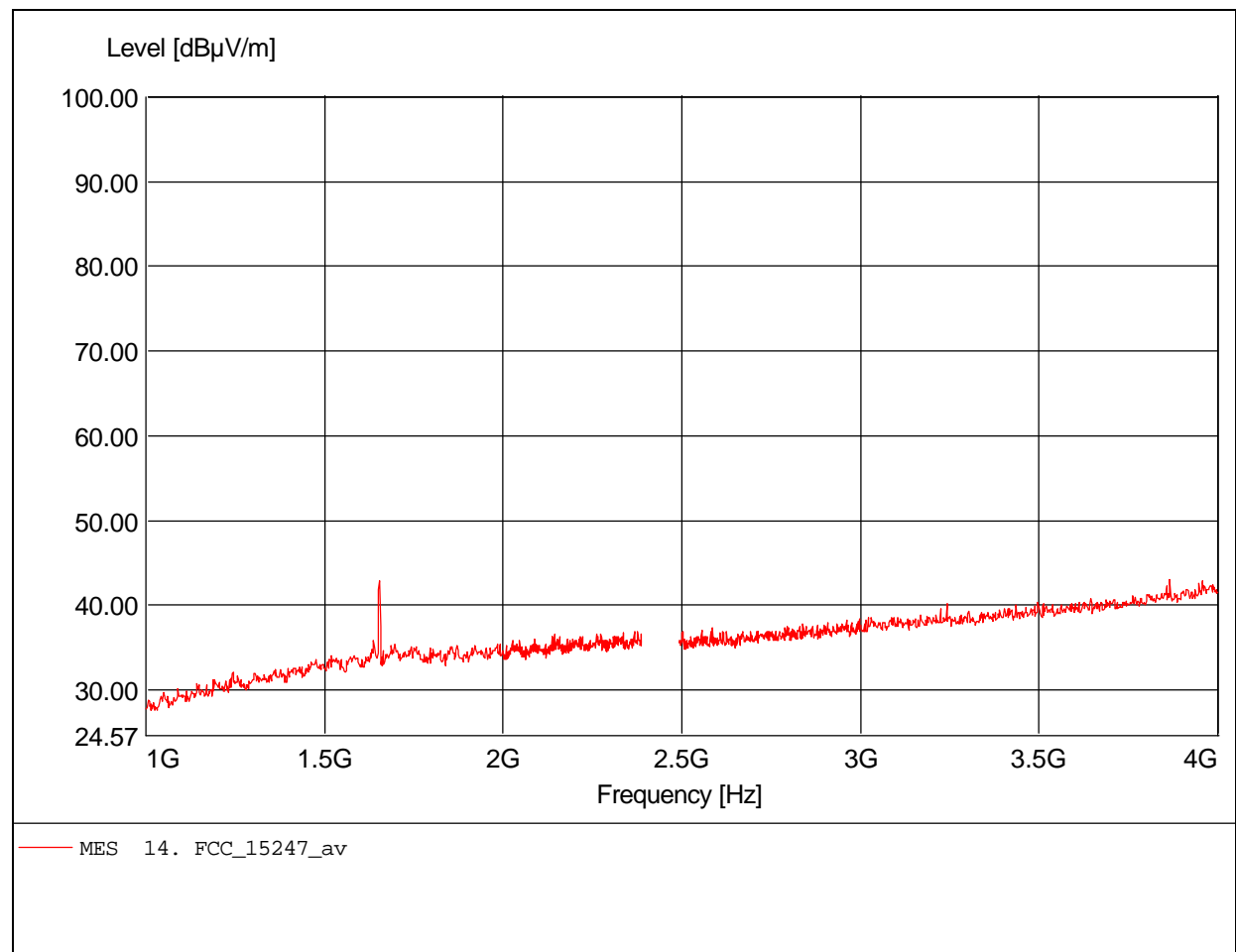


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 3.868GHz, Emax: 43.09dBμV/m, RBW: 1MHz

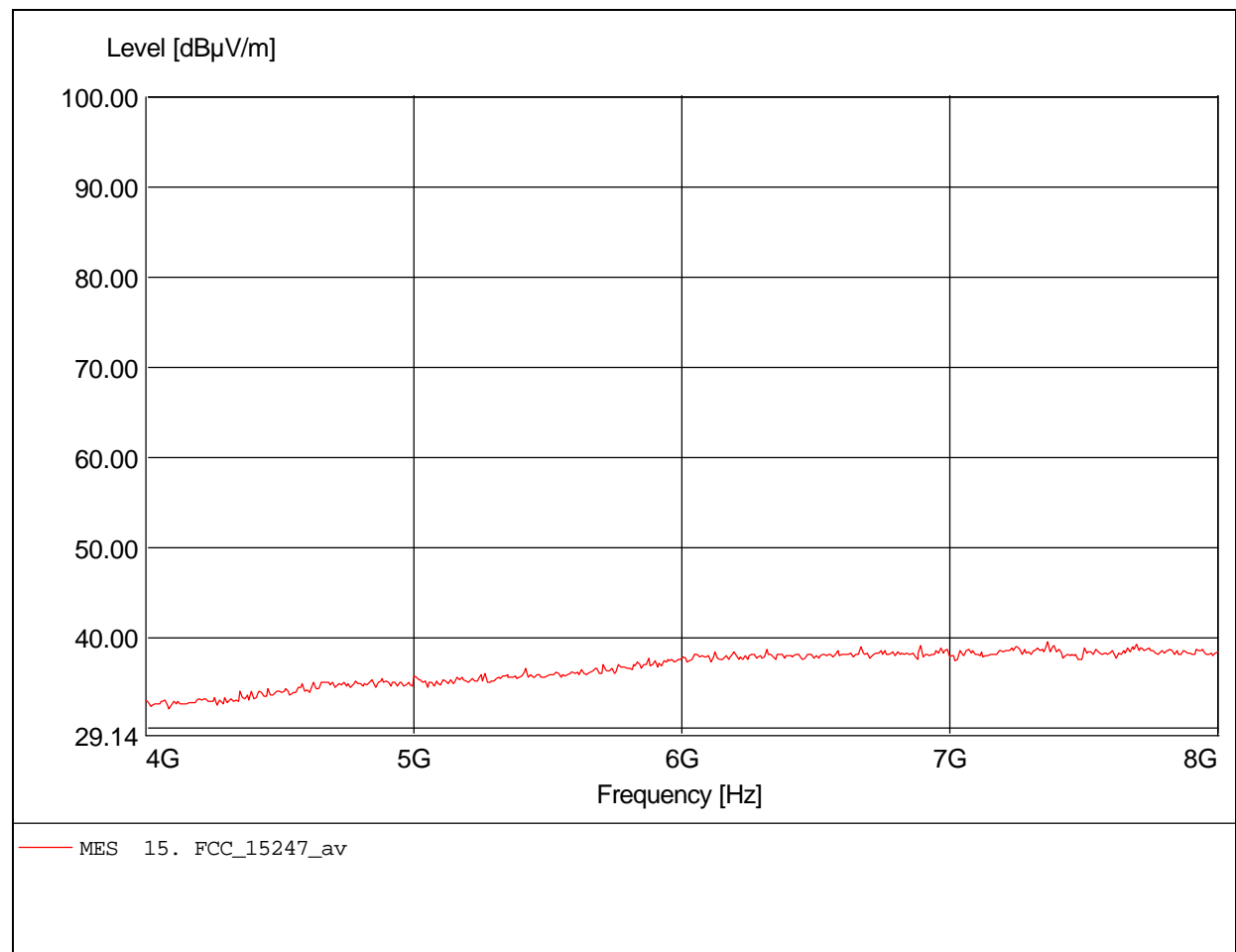


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.367GHz, Emax: 39.57dBμV/m, RBW: 1MHz

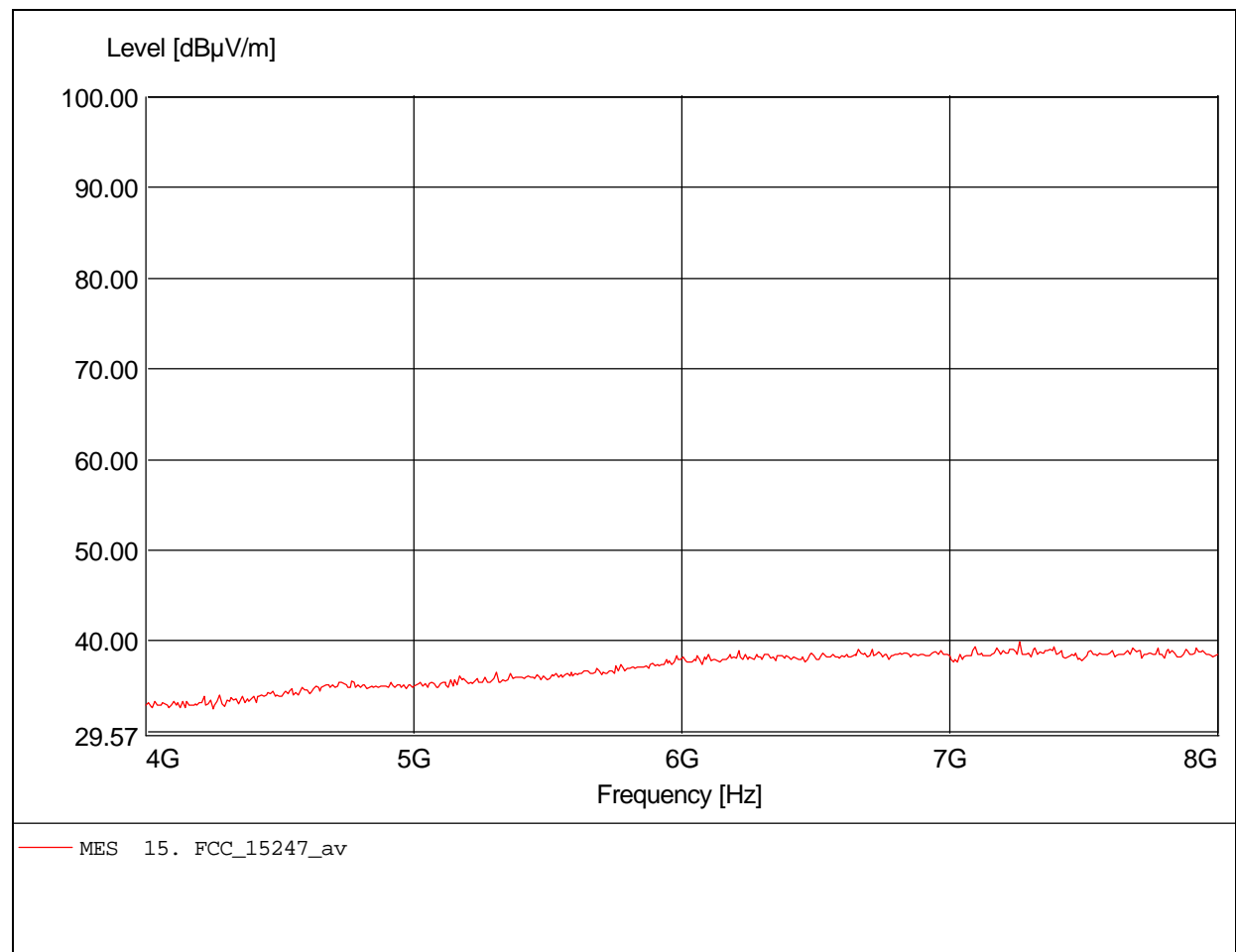


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.263GHz, Emax: 39.88dBμV/m, RBW: 1MHz

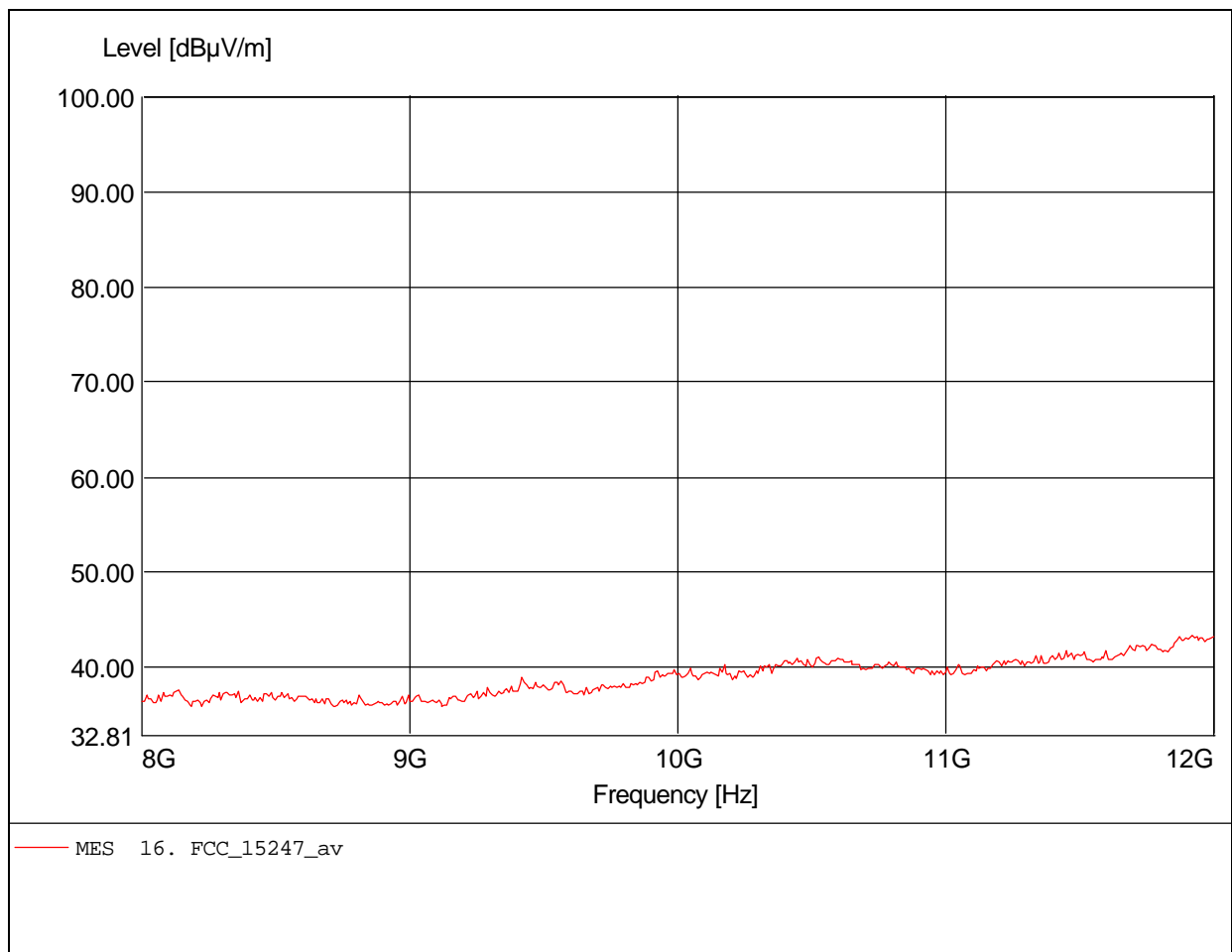


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.920GHz, Emax: 43.41dBμV/m, RBW: 1MHz

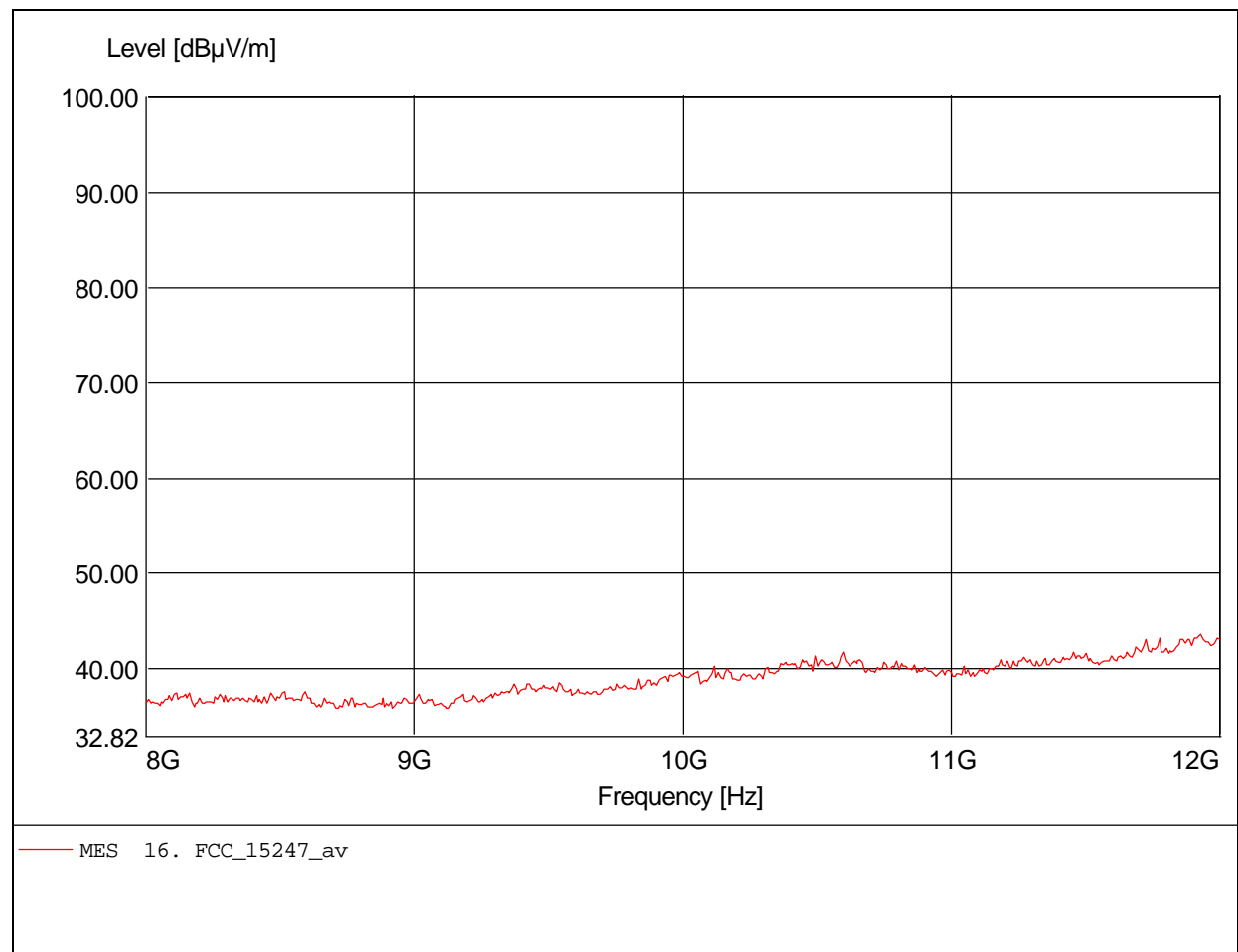


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.928GHz, Emax: 43.61dBμV/m, RBW: 1MHz

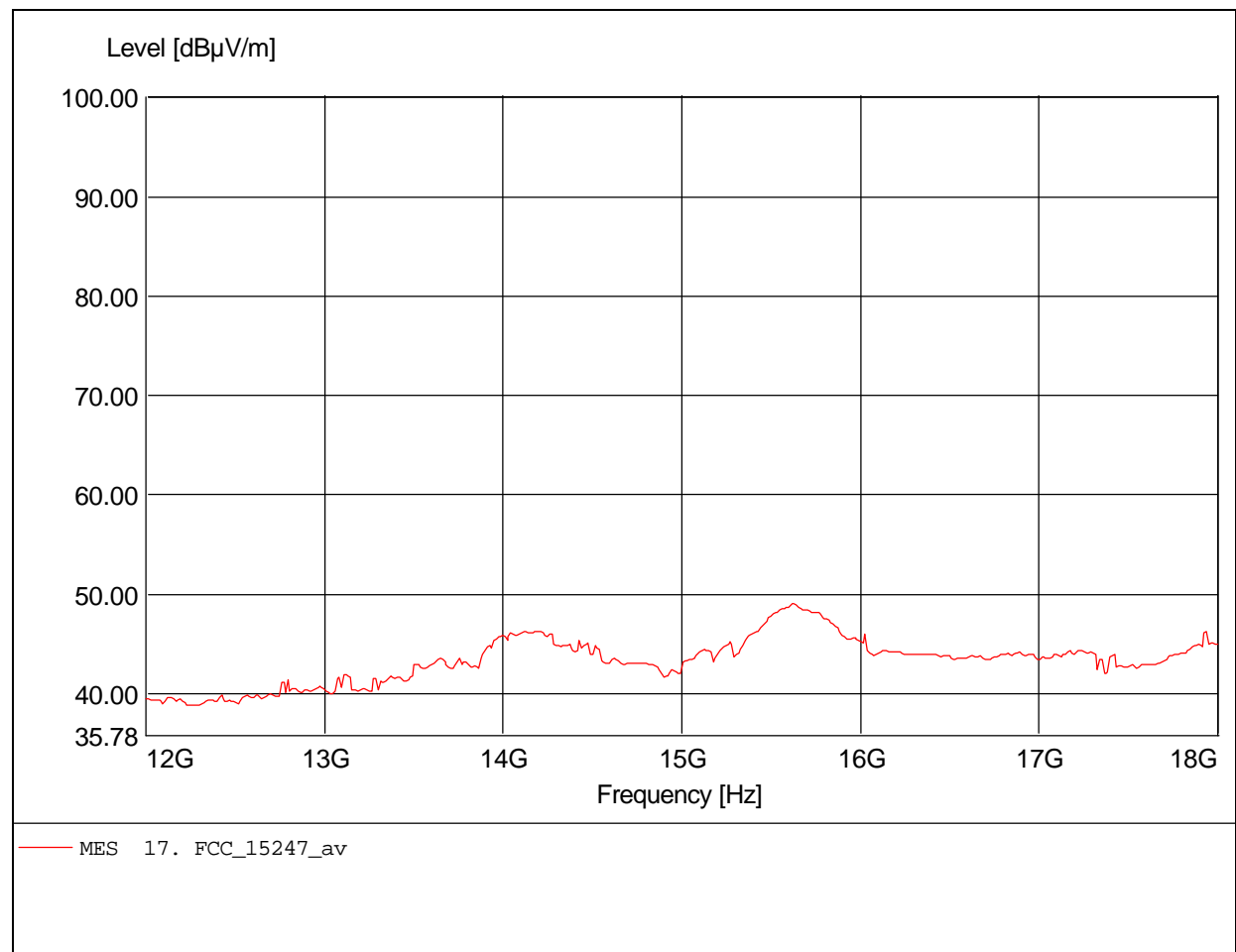


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 15.619GHz, Emax: 49.02dBμV/m, RBW: 1MHz

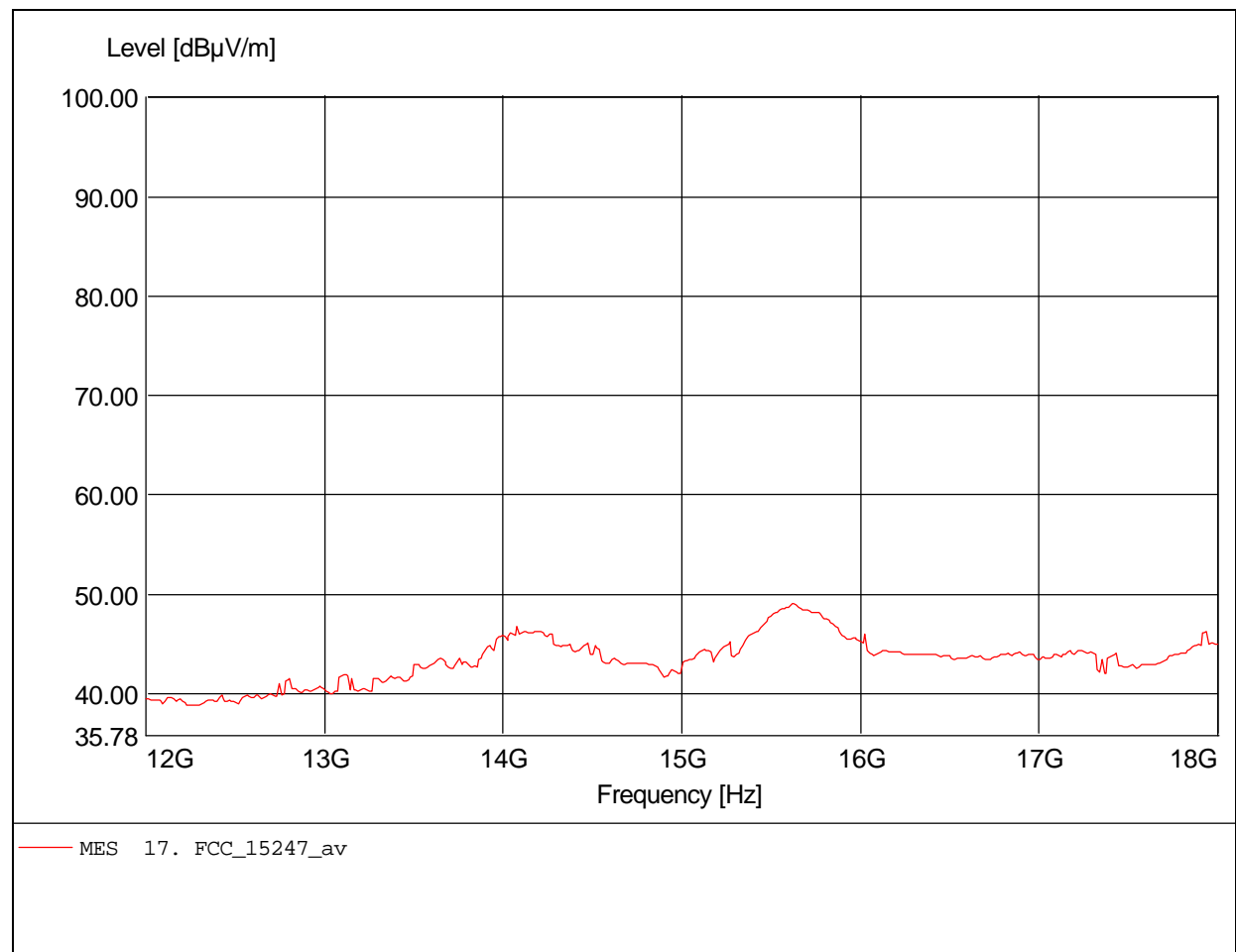


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 15.619GHz, Emax: 49.02dBμV/m, RBW: 1MHz

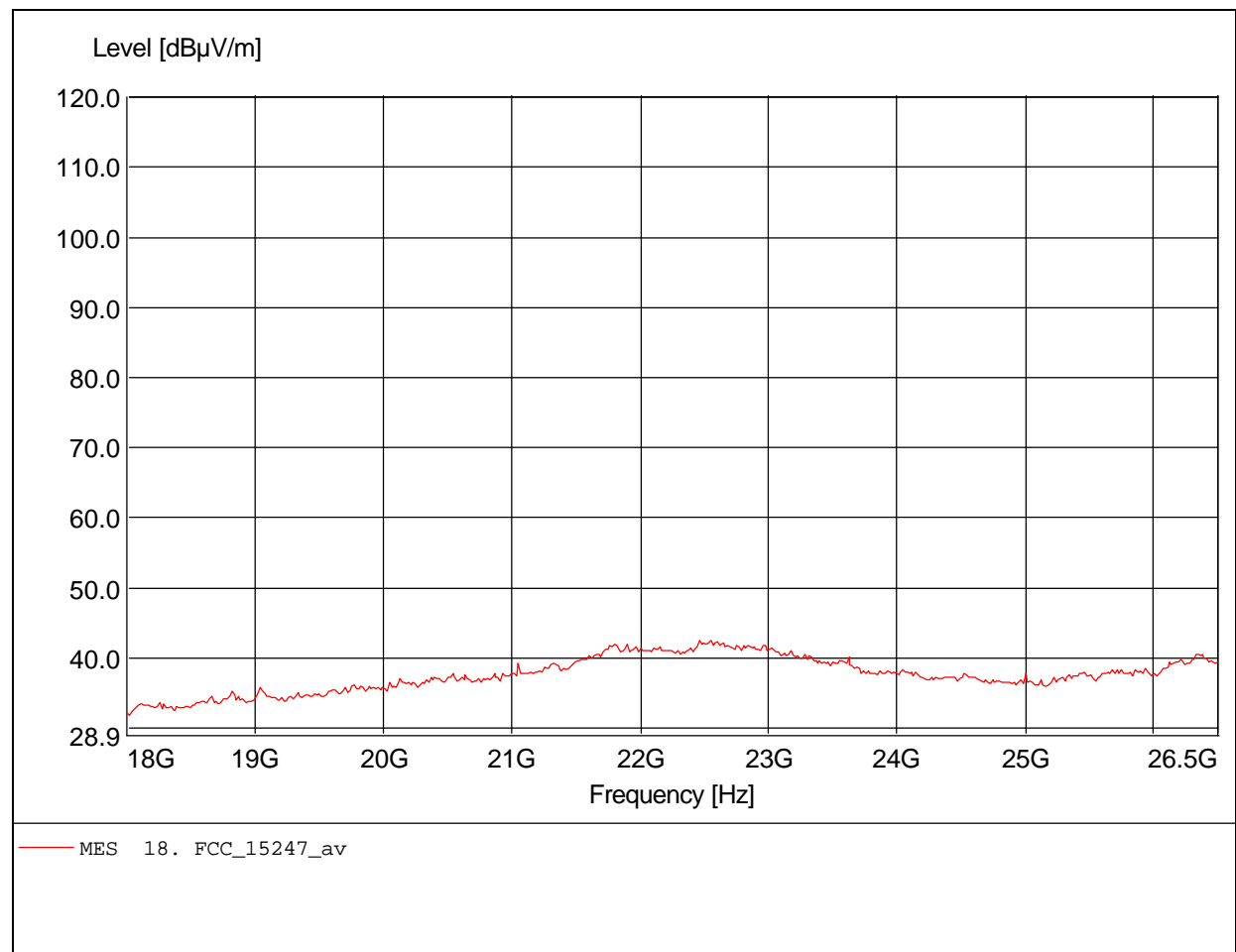


Antenna vertical

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 22.463GHz, Emax: 42.46dBμV/m, RBW: 1MHz

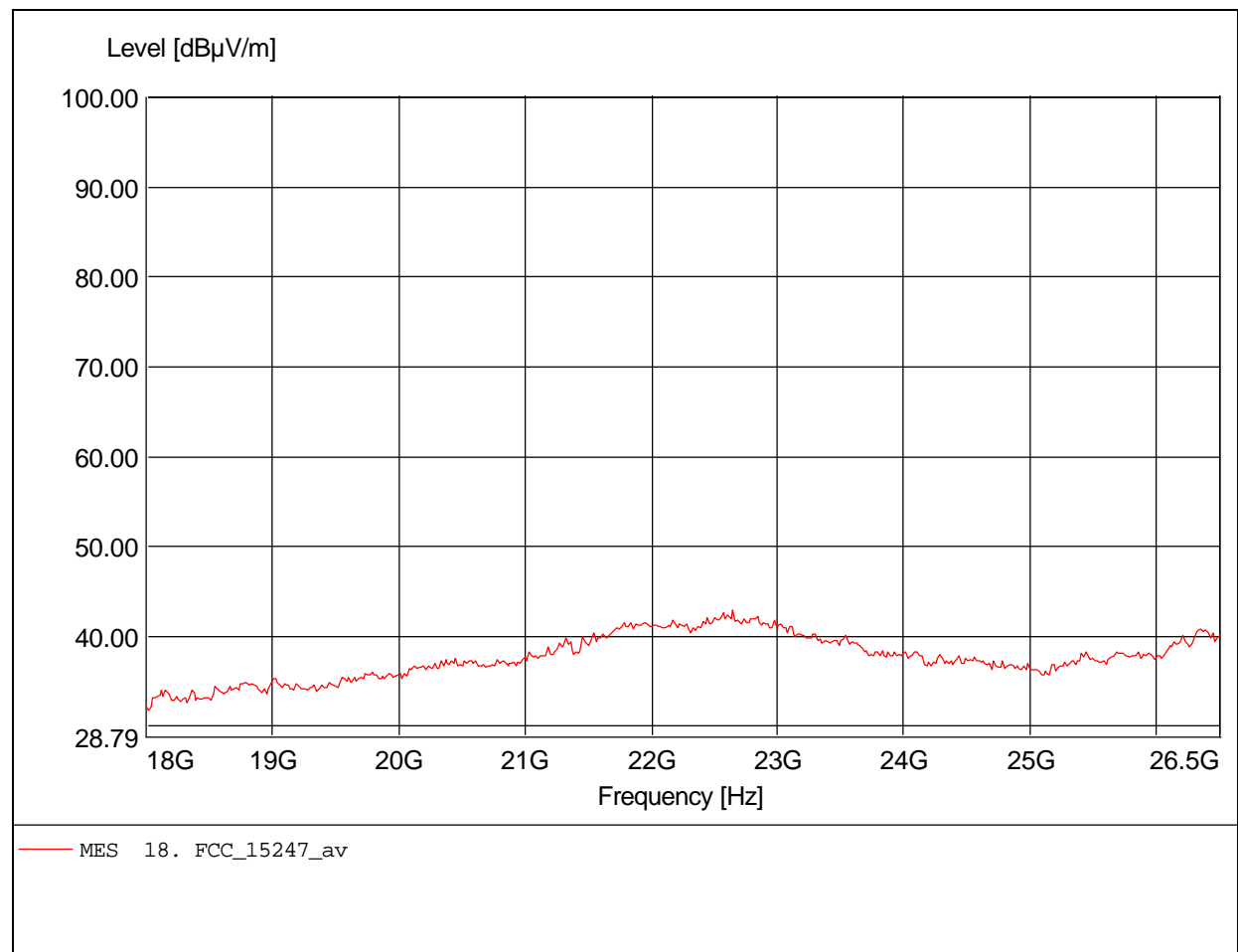


Antenna horizontal

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 22.650GHz, Emax: 42.97dBμV/m, RBW: 1MHz

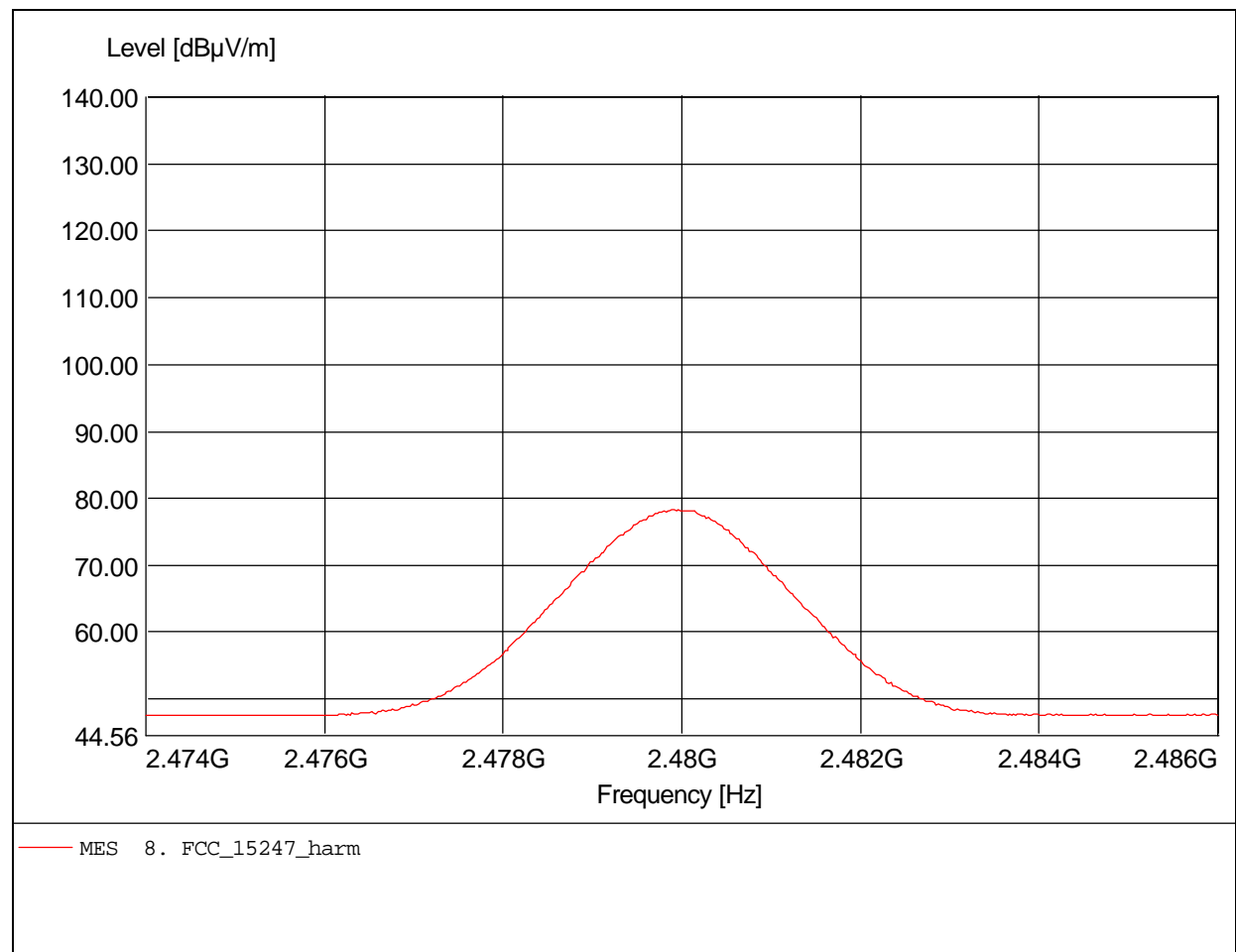


Antenna vertical

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.480GHz, Emax: 78.36dBμV/m, RBW: 1MHz

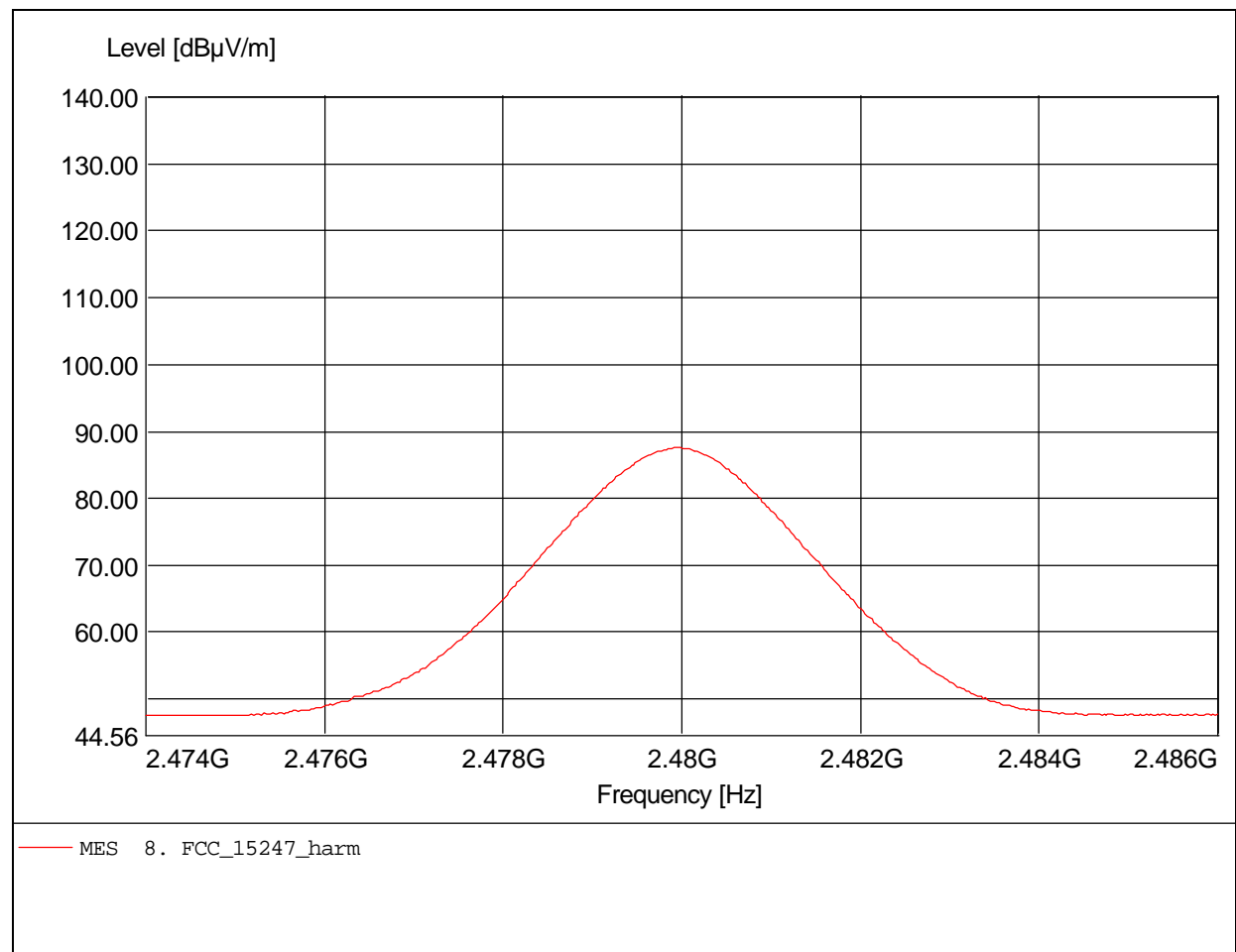


Antenna horizontal

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery (2.480 GHz)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.480GHz, Emax: 87.55dBμV/m, RBW: 1MHz

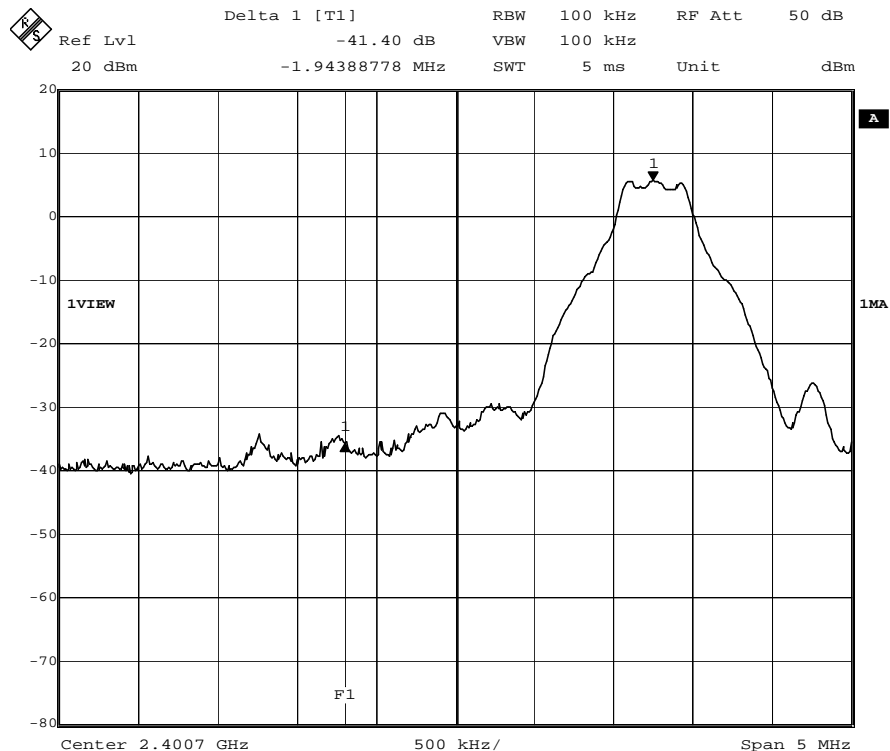


Antenna vertical

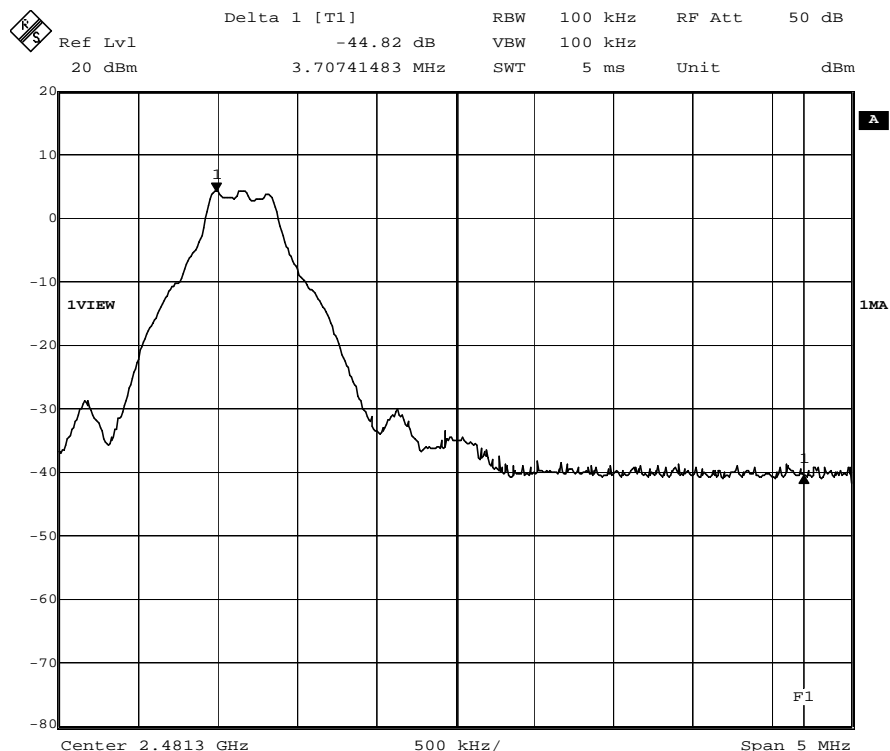
Appendix J

Band-edge compliance

Test Report No.: H1M20803-6695-P-15

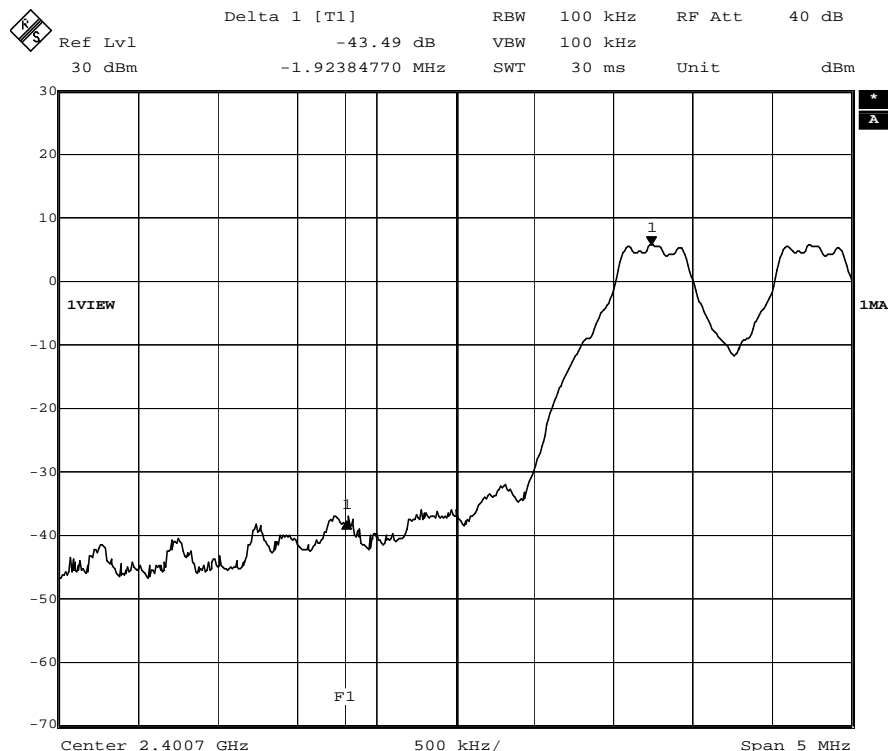


Title: Band edge compliance (single frequency) Channel 0 / 2402MHz
 Date: 26.MAR.2008 16:22:28



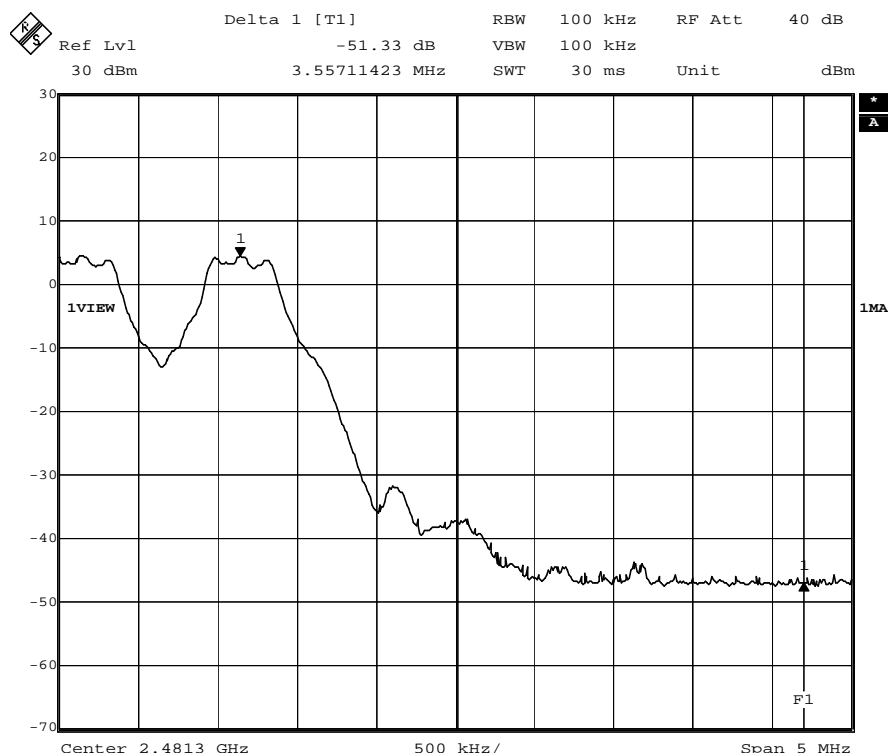
Title: Band edge compliance (single frequency) Channel 78 / 2480MHz
 Date: 26.MAR.2008 15:39:36

Test Report No.: H1M20803-6695-P-15



Title: Band edge compliance (hopping mode) Channel 0 / 2402MHz

Date: 27.MAR.2008 11:00:32



Title: Band edge compliance (hopping mode) Channel 78 / 2480MHz

Date: 27.MAR.2008 10:35:58

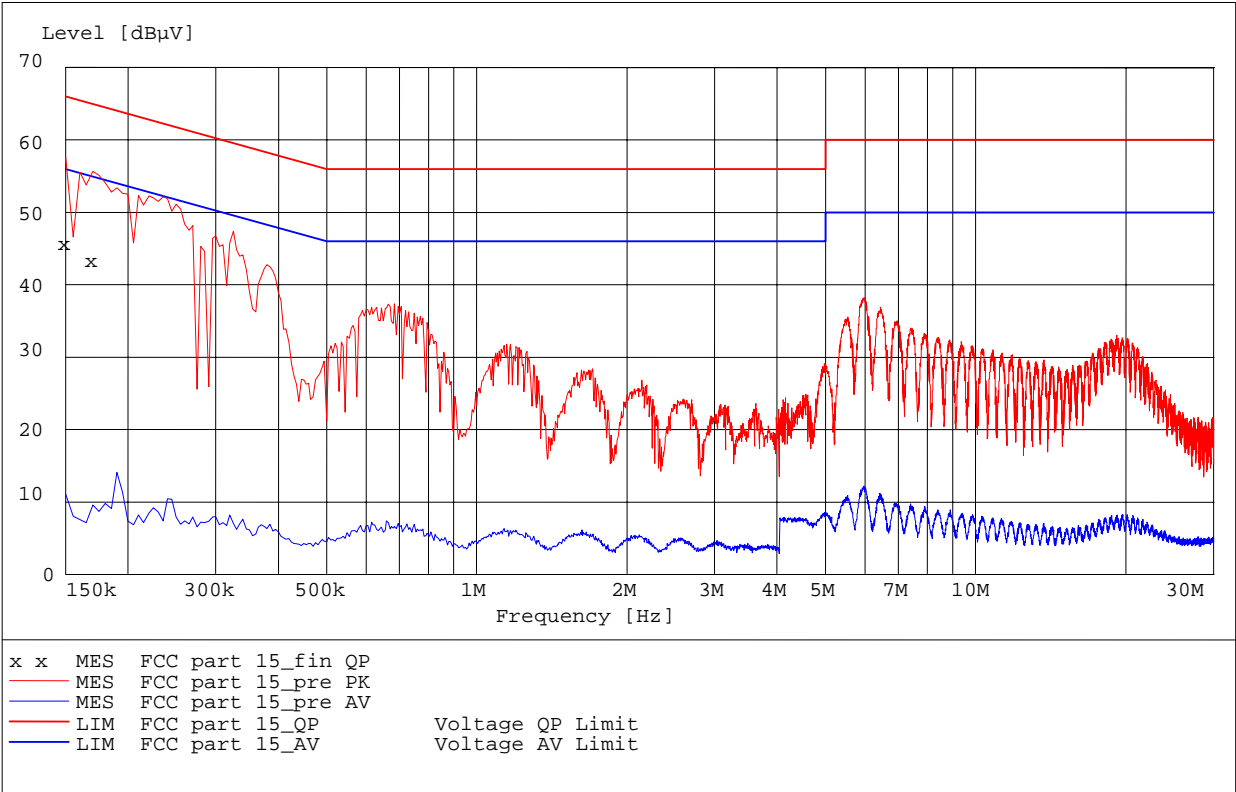
Test Report No.: H1M20803-6695-P-15

Appendix K

AC power line conducted emissions

AC power line conducted emissions according to FCC part 15

EUT: Bluetooth Headset
Manufacturer: Argard Co., Ltd.
Operating Condition: 22°C / 110VAC (5VDC AC/DC adaptor)
Test Site: ETSPS
Operator: Mr. Sin
Test Specification: FCC part 15
Comment: ESHS 10 / ESH3-Z5 (L)
Model: M20; Mode: Charging mode (Adaptor: FW7600/05)

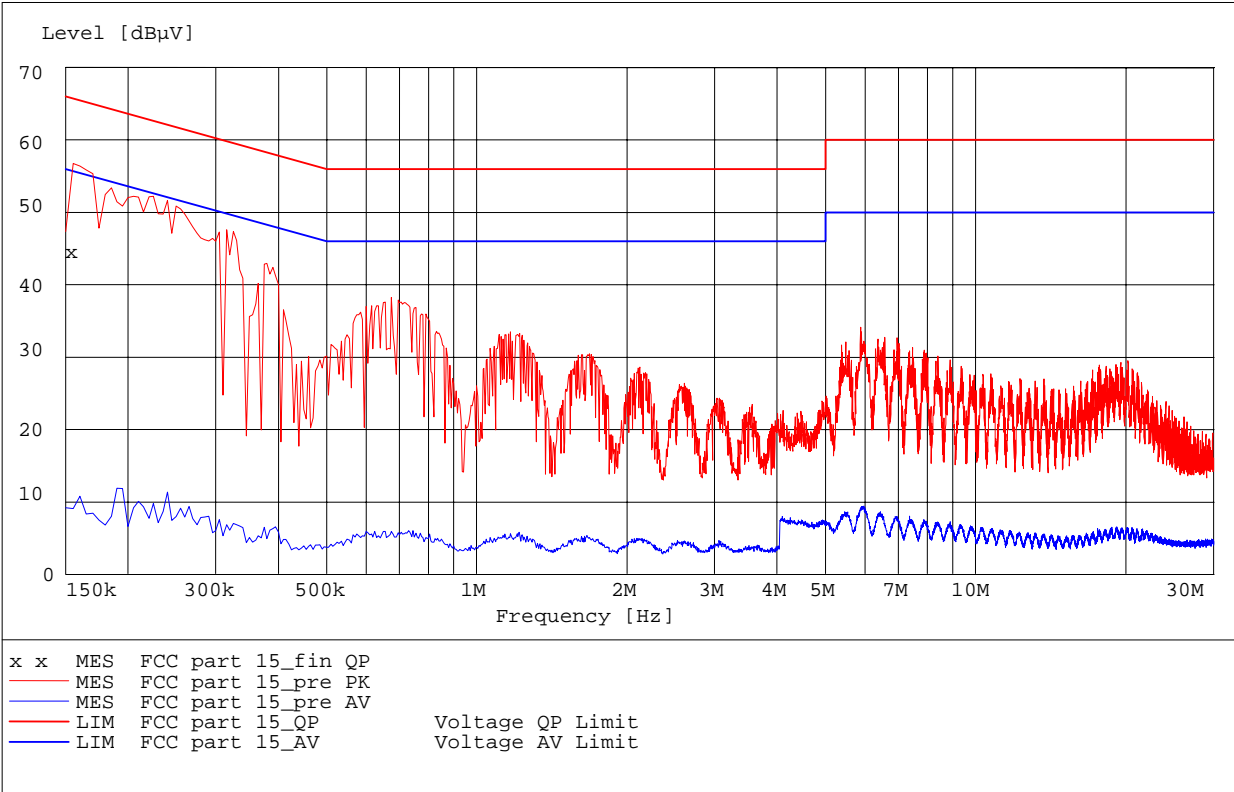


MEASUREMENT RESULT: "FCC part 15_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150000	45.70	10.1	66	20.3	---	---
0.170000	43.50	10.1	65	21.5	---	---

AC power line conducted emissions according to FCC part 15

EUT: Bluetooth Headset
Manufacturer: Argard Co., Ltd.
Operating Condition: 22°C / 110VAC (5VDC AC/DC adaptor)
Test Site: ETSPS
Operator: Mr. Sin
Test Specification: FCC part 15
Comment: ESHS 10 / ESH3-Z5 (N)
Model: M20; Mode: Charging mode (Adaptor: FW7600/05)



MEASUREMENT RESULT: "FCC part 15_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150000	44.33	10.1	66	21.67	---	---

Appendix L

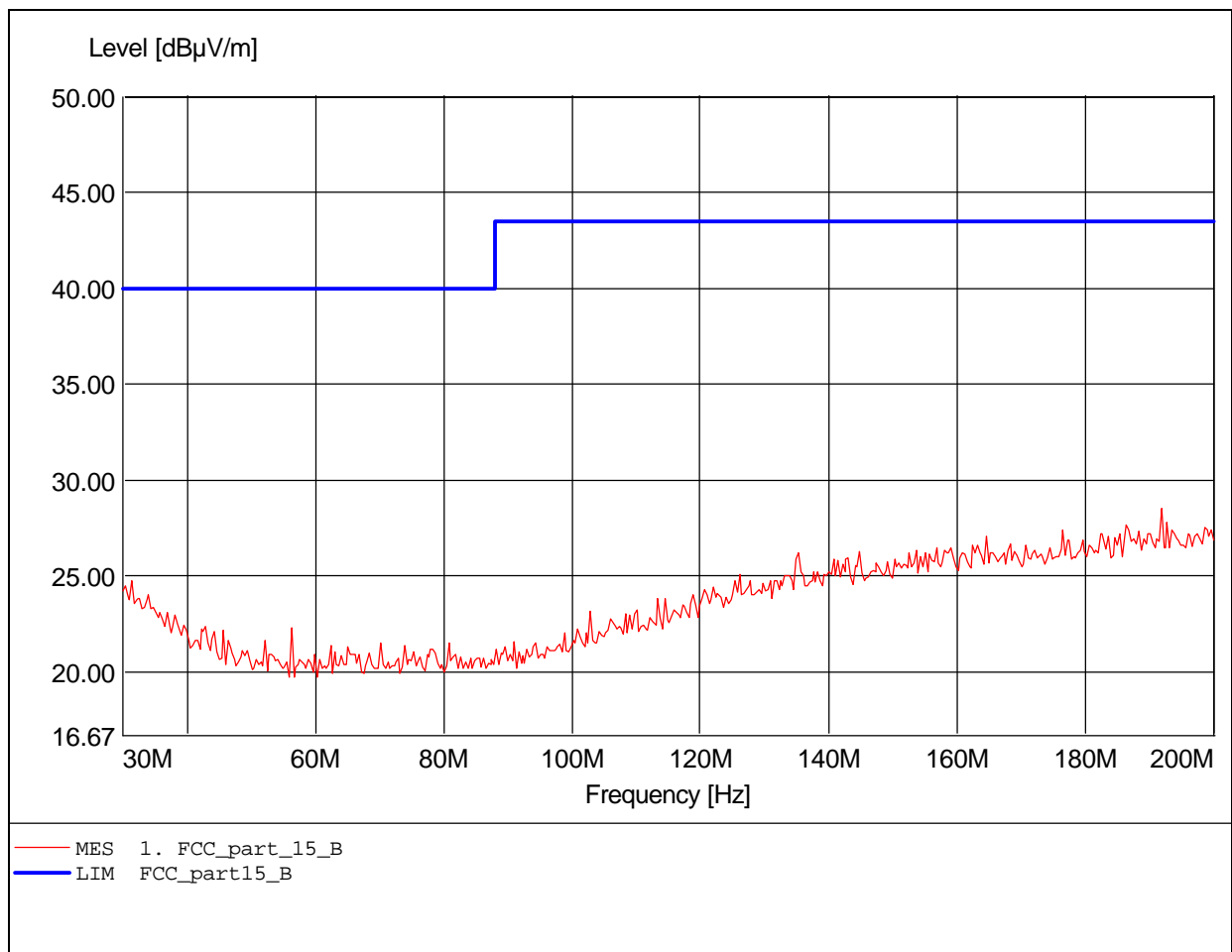
Receiver radiated emissions

Test Report No.: H1M20803-6695-P-15

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:191.824MHz Emax:28.51dBμV/m RBW: 100 kHz

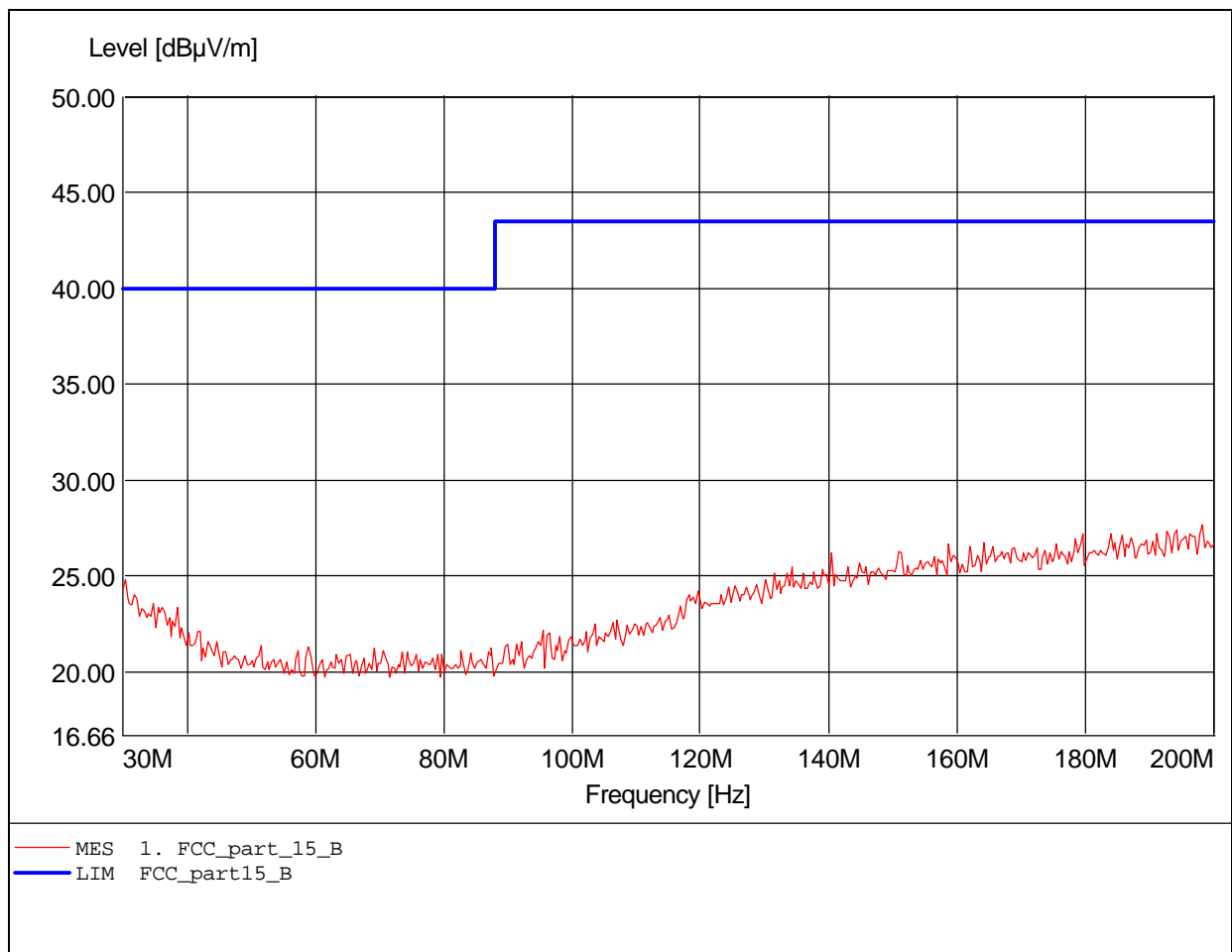


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:198.297MHz Emax:27.63dBμV/m RBW: 100 kHz

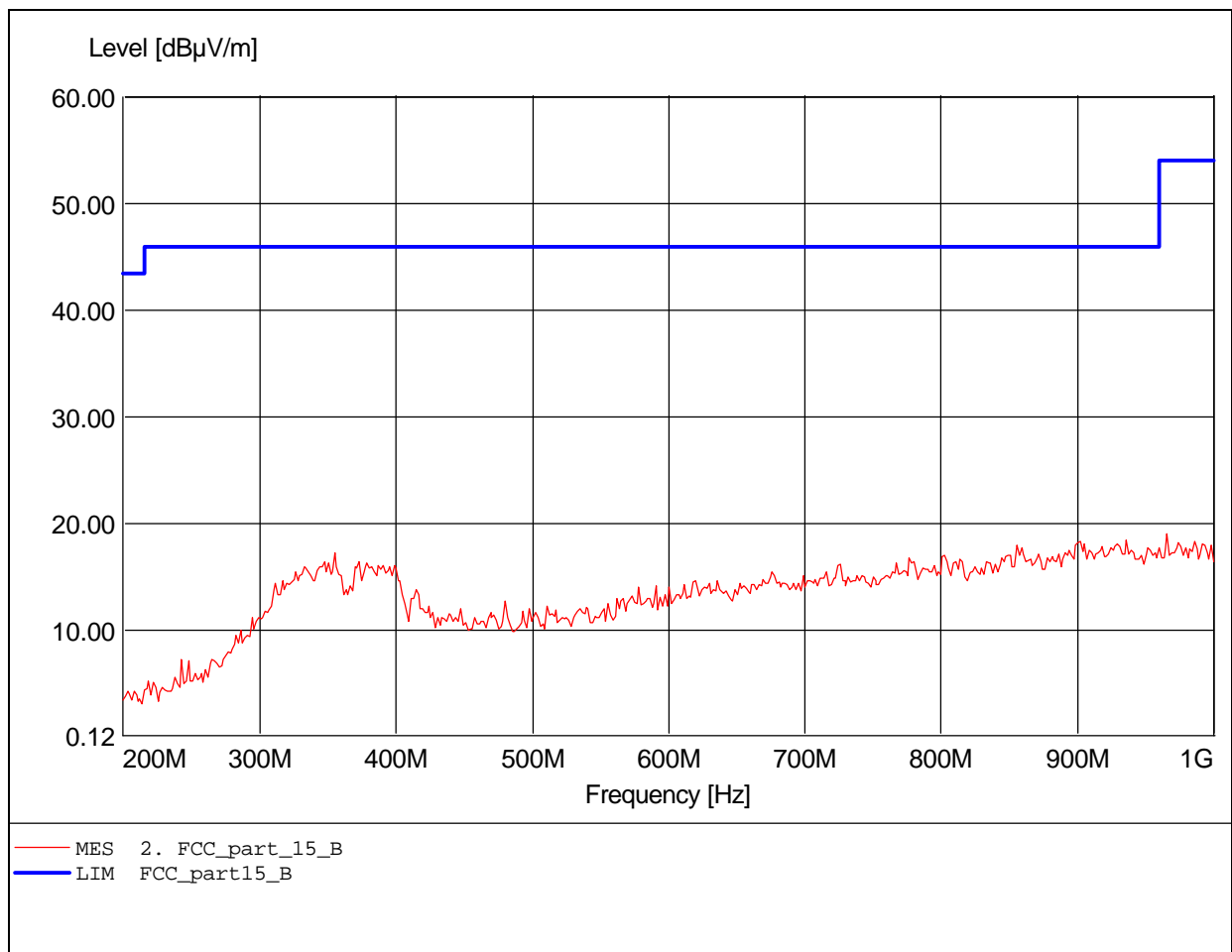


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:966.333MHz Emax:18.99dBμV/m RBW: 100 kHz

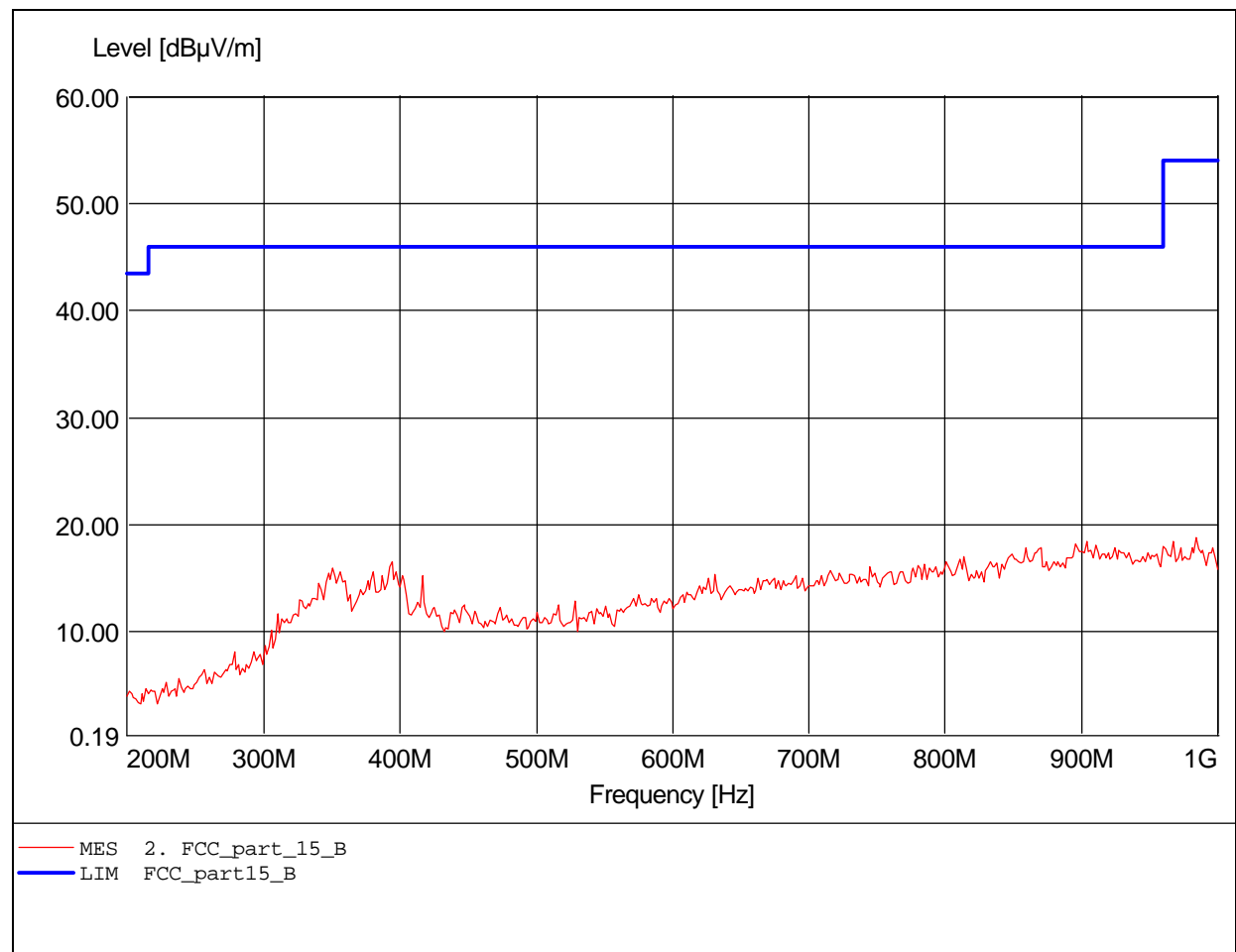


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq: 983.968MHz Emax: 18.75dBμV/m RBW: 100 kHz

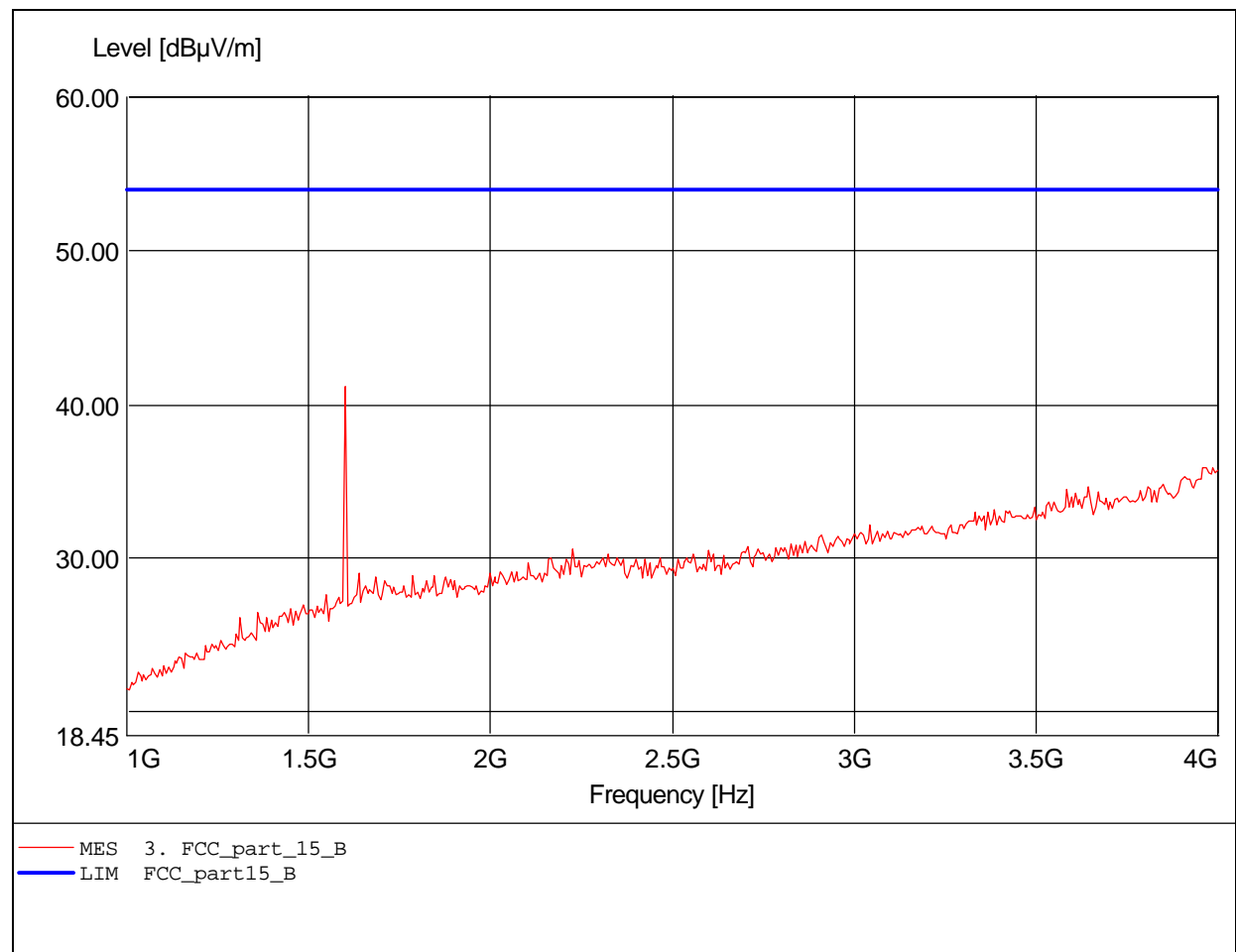


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.601GHz Emax:41.22dBμV/m RBW: 1 MHz

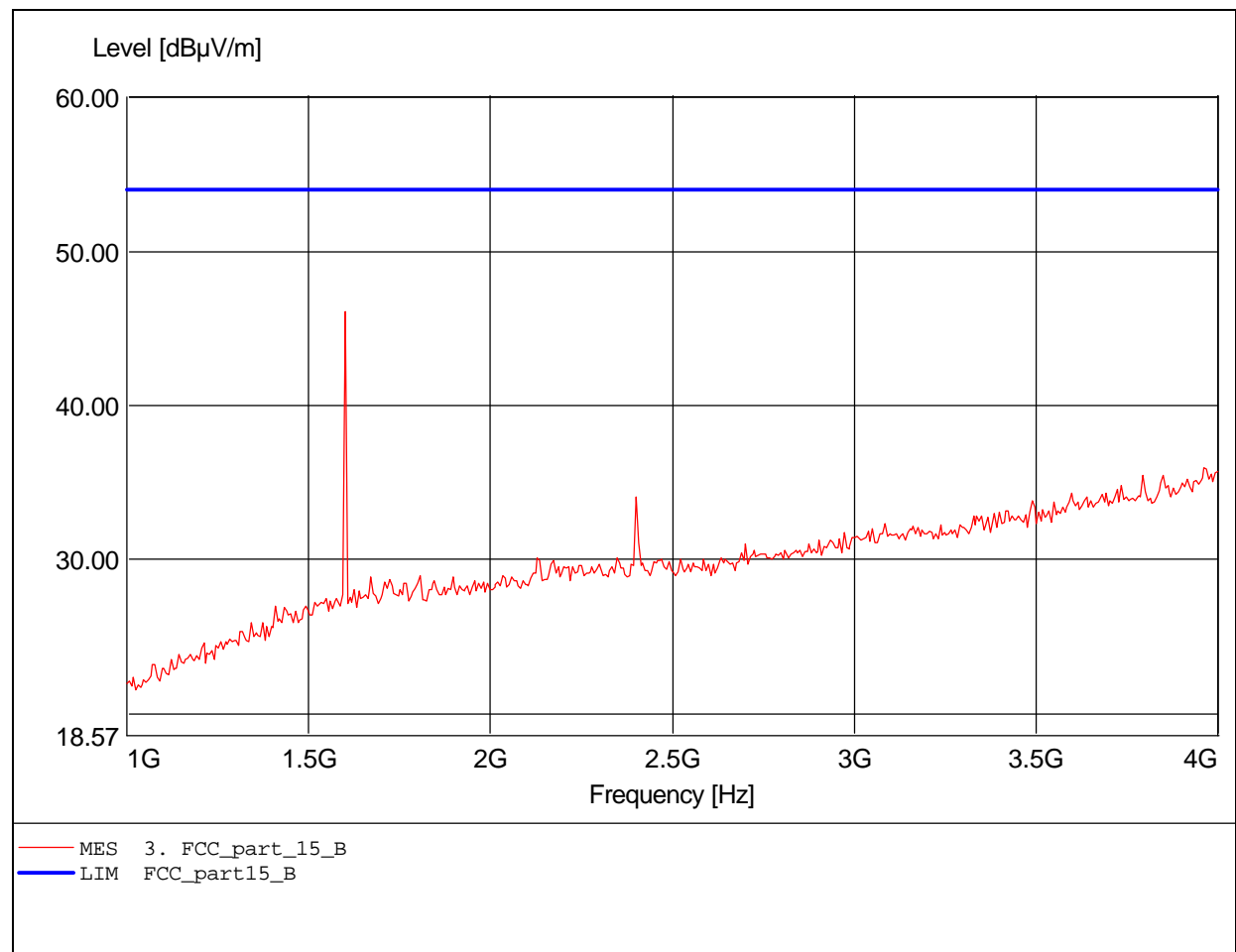


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B/ mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.601GHz Emax:46.09dBμV/m RBW: 1 MHz

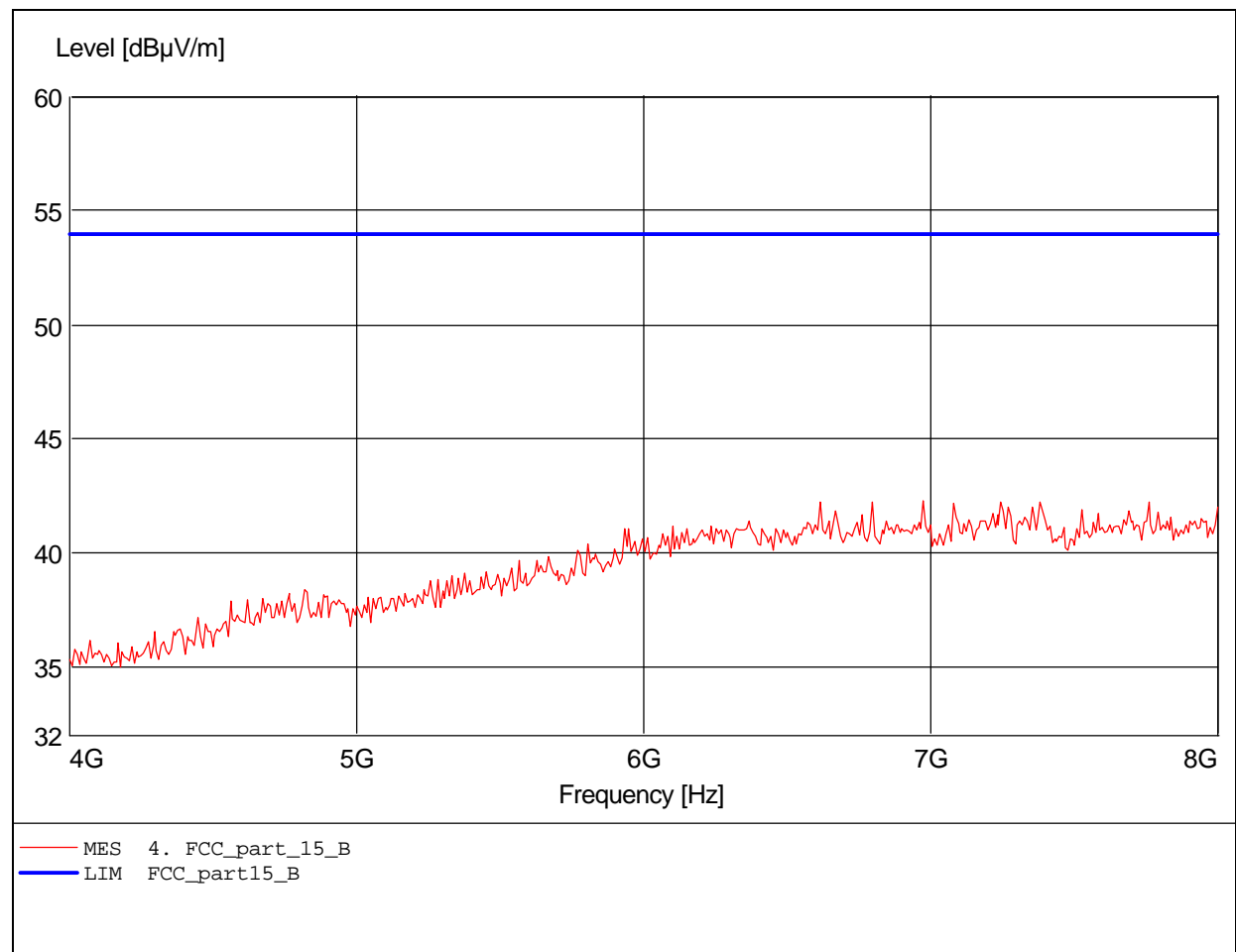


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 6.974GHz Emax: 42.30dBμV/m RBW: 1 MHz

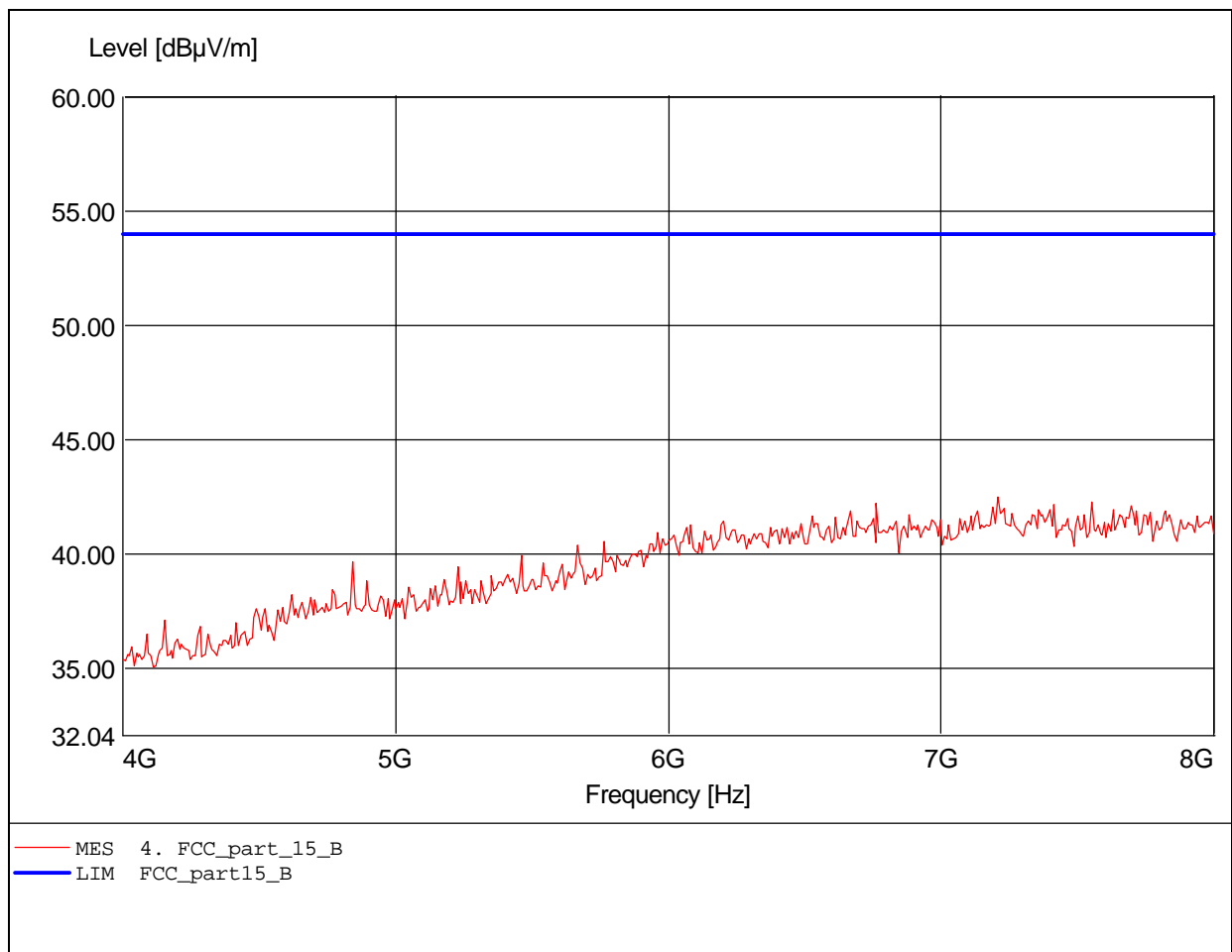


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 7.206GHz Emax: 42.49dBμV/m RBW: 1 MHz

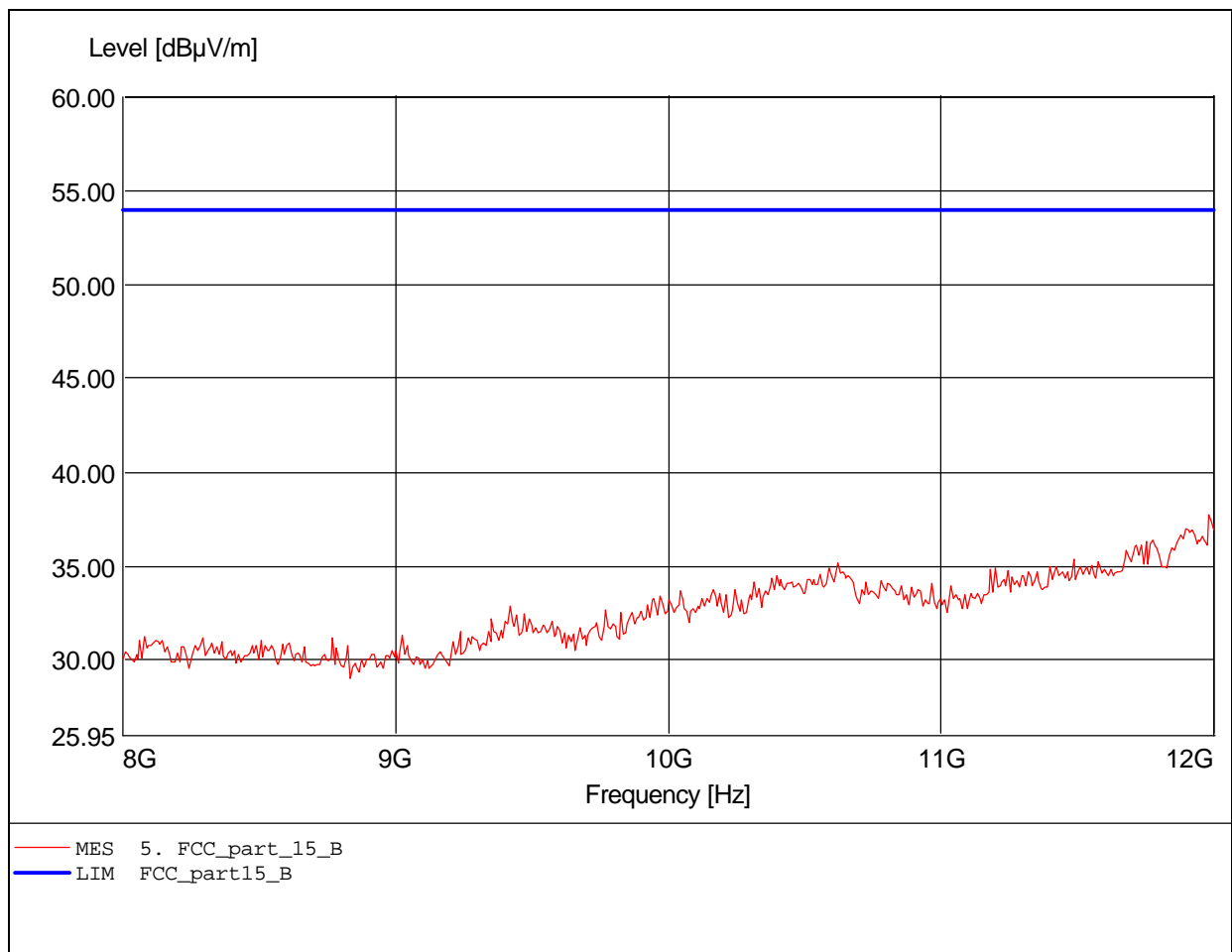


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 11.984GHz Emax: 37.74dBμV/m RBW: 1 MHz

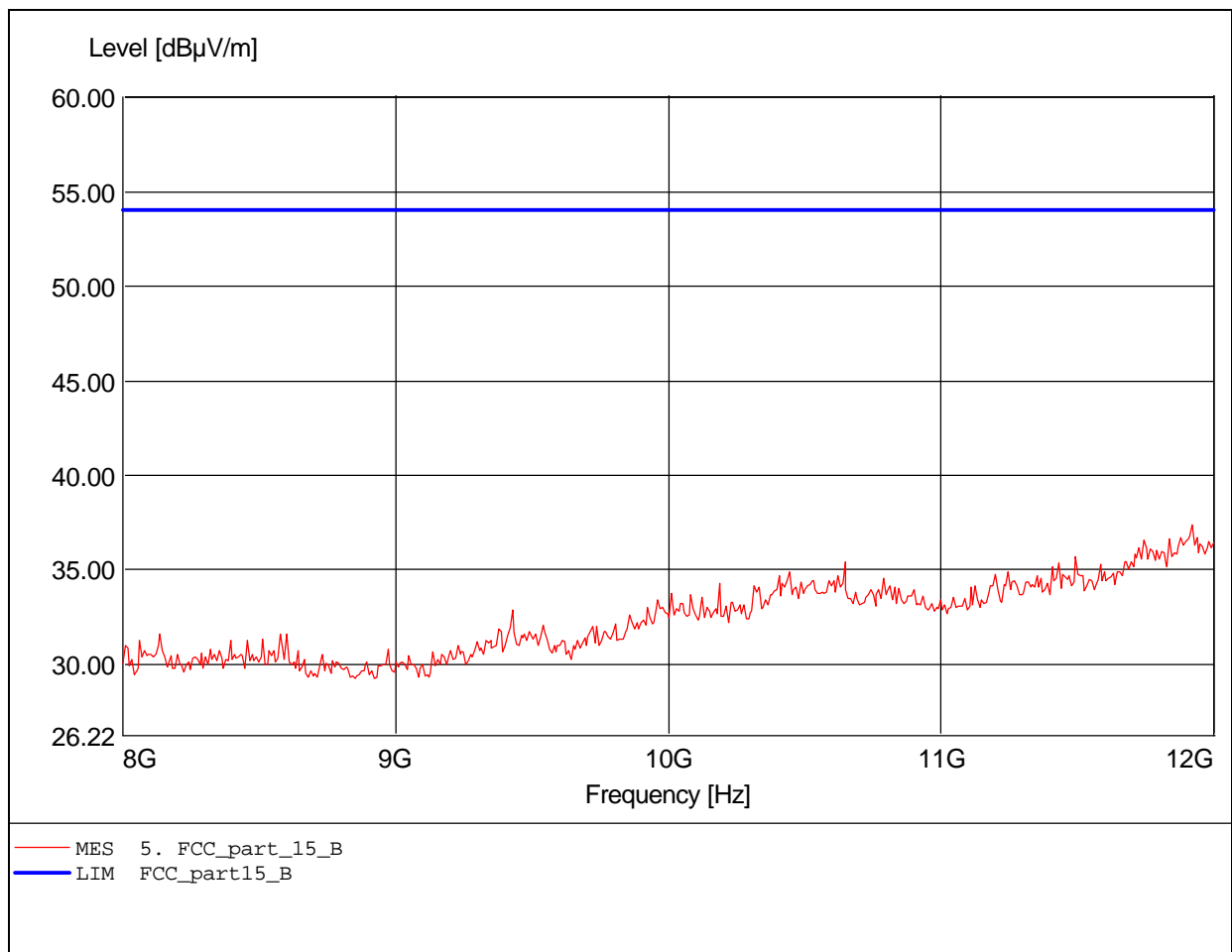


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 11.920GHz Emax: 37.33dBμV/m RBW: 1 MHz

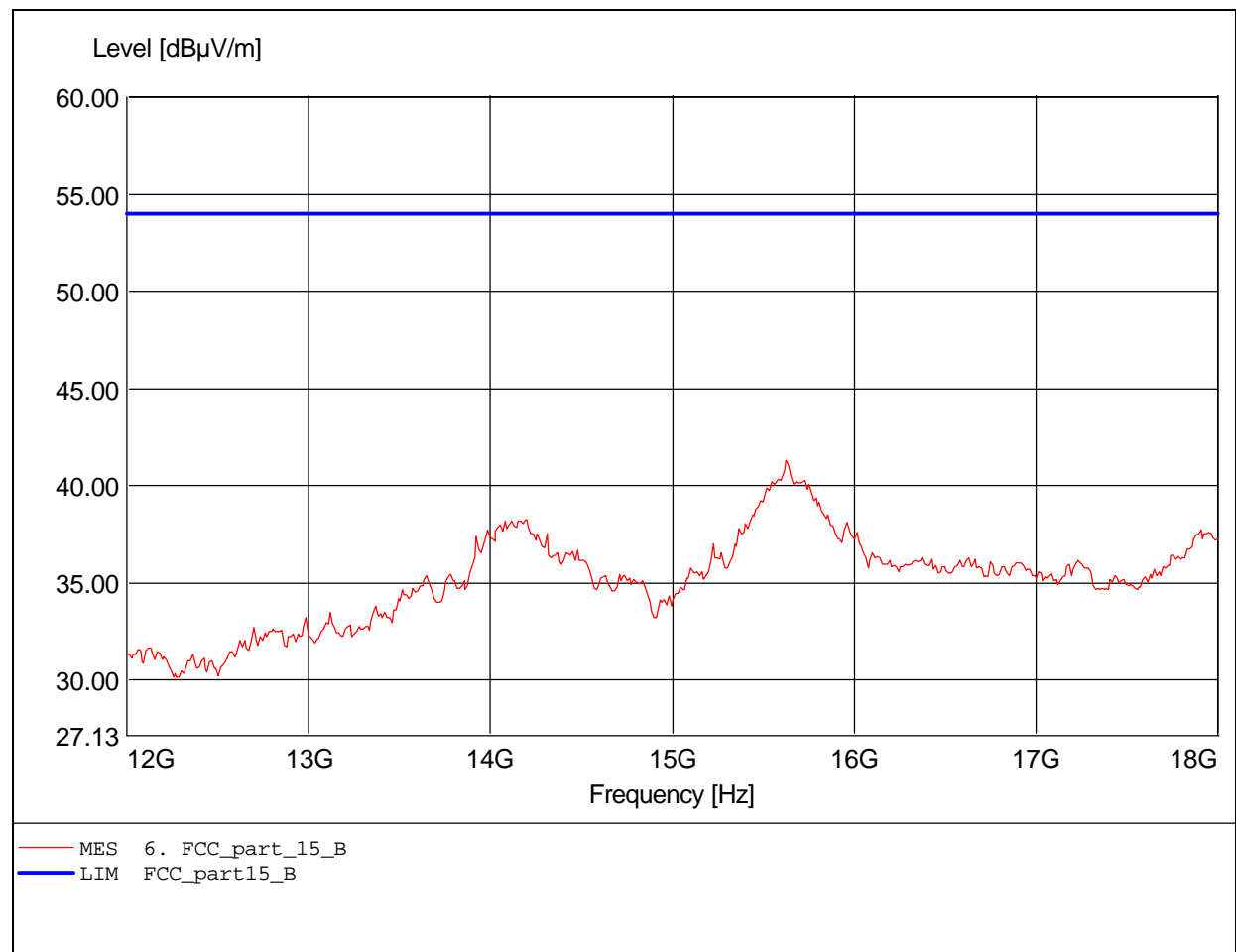


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:15.631GHz Emax:41.29dBμV/m RBW: 1 MHz

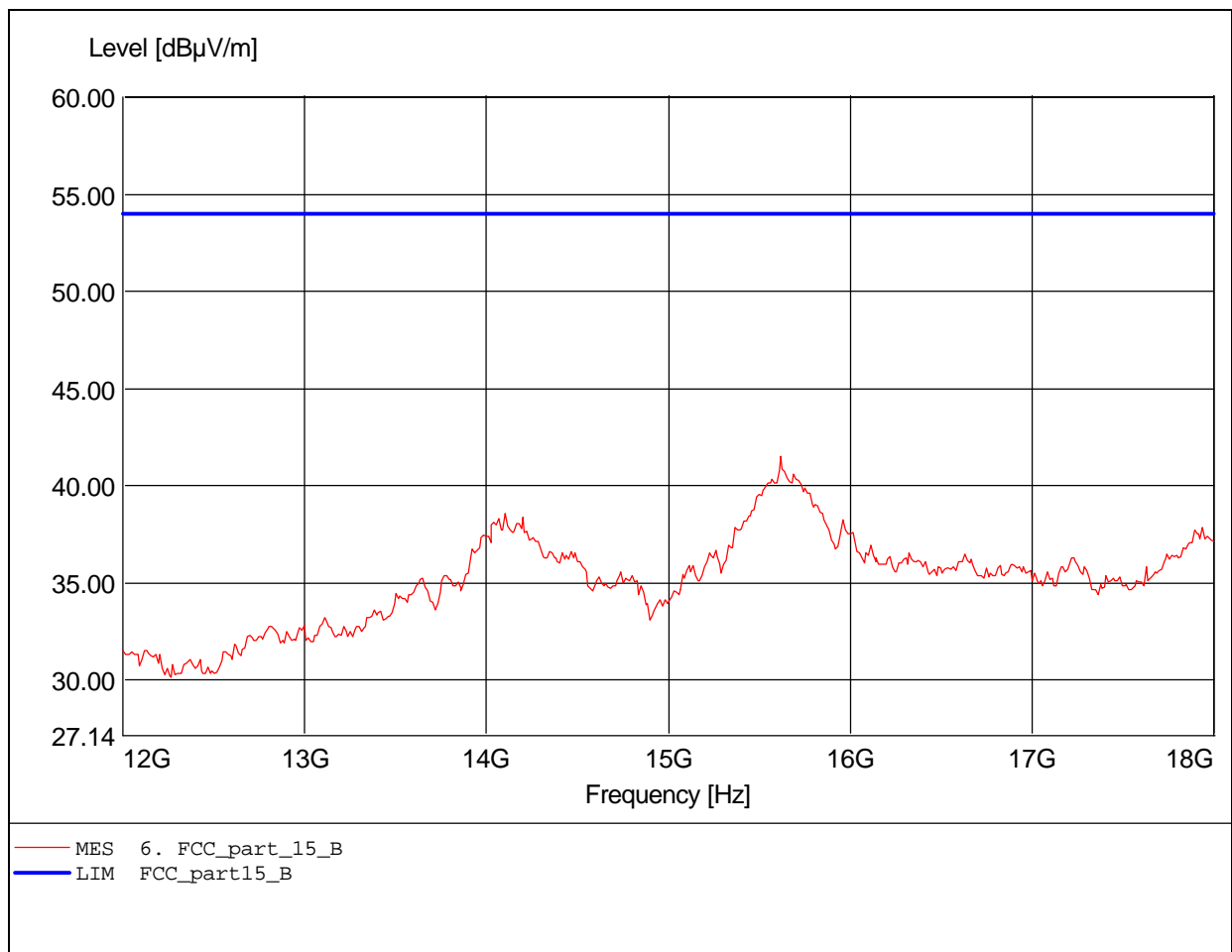


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:15.619GHz Emax:41.48dBμV/m RBW: 1 MHz

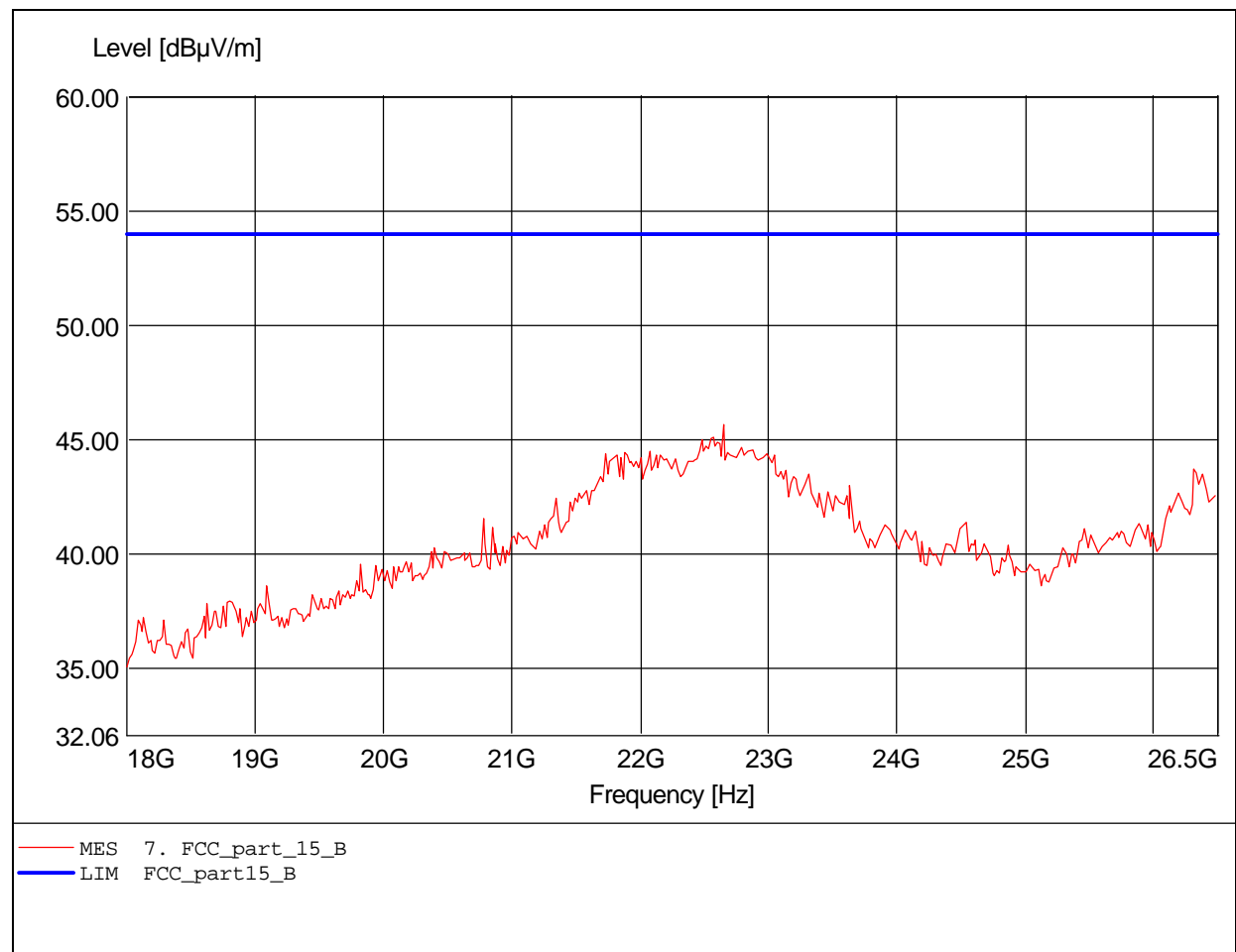


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Freq:22.650GHz Emax:45.66dBμV/m RBW: 1 MHz

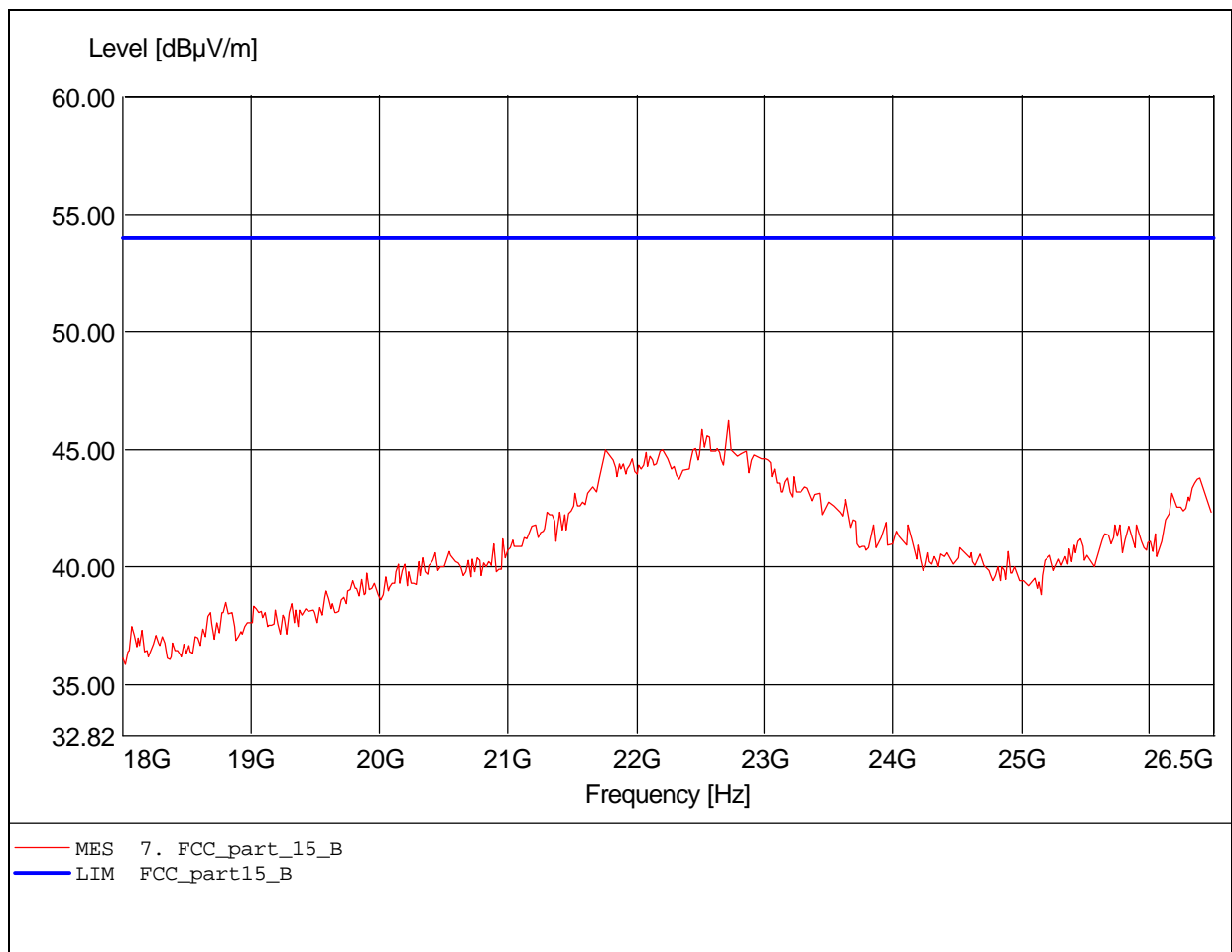


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.402 GHz)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Freq: 22.718GHz Emax: 46.20dBμV/m RBW: 1 MHz

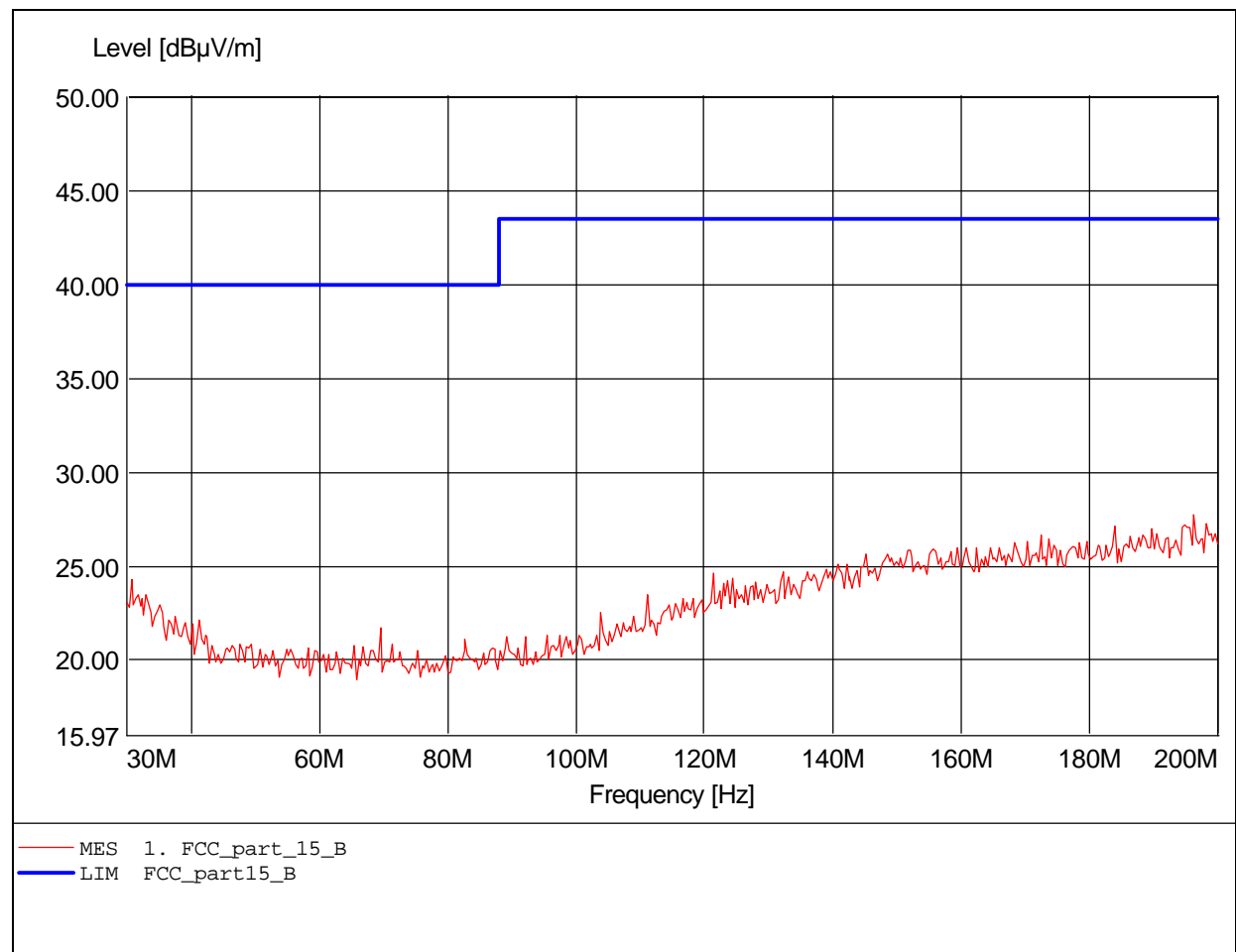


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:196.253MHz Emax:27.74dBμV/m RBW: 100 kHz

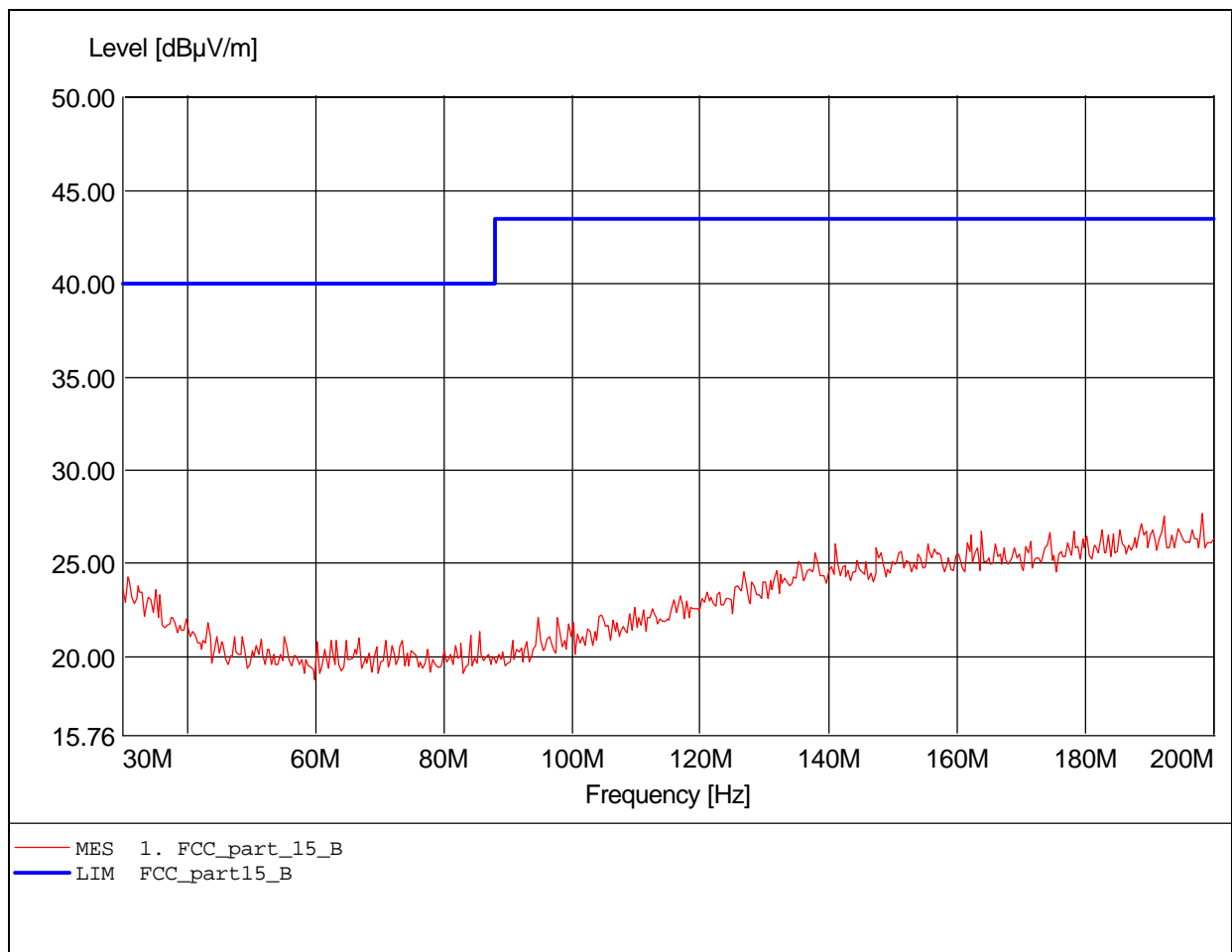


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:198.297MHz Emax:27.65dBμV/m RBW: 100 kHz

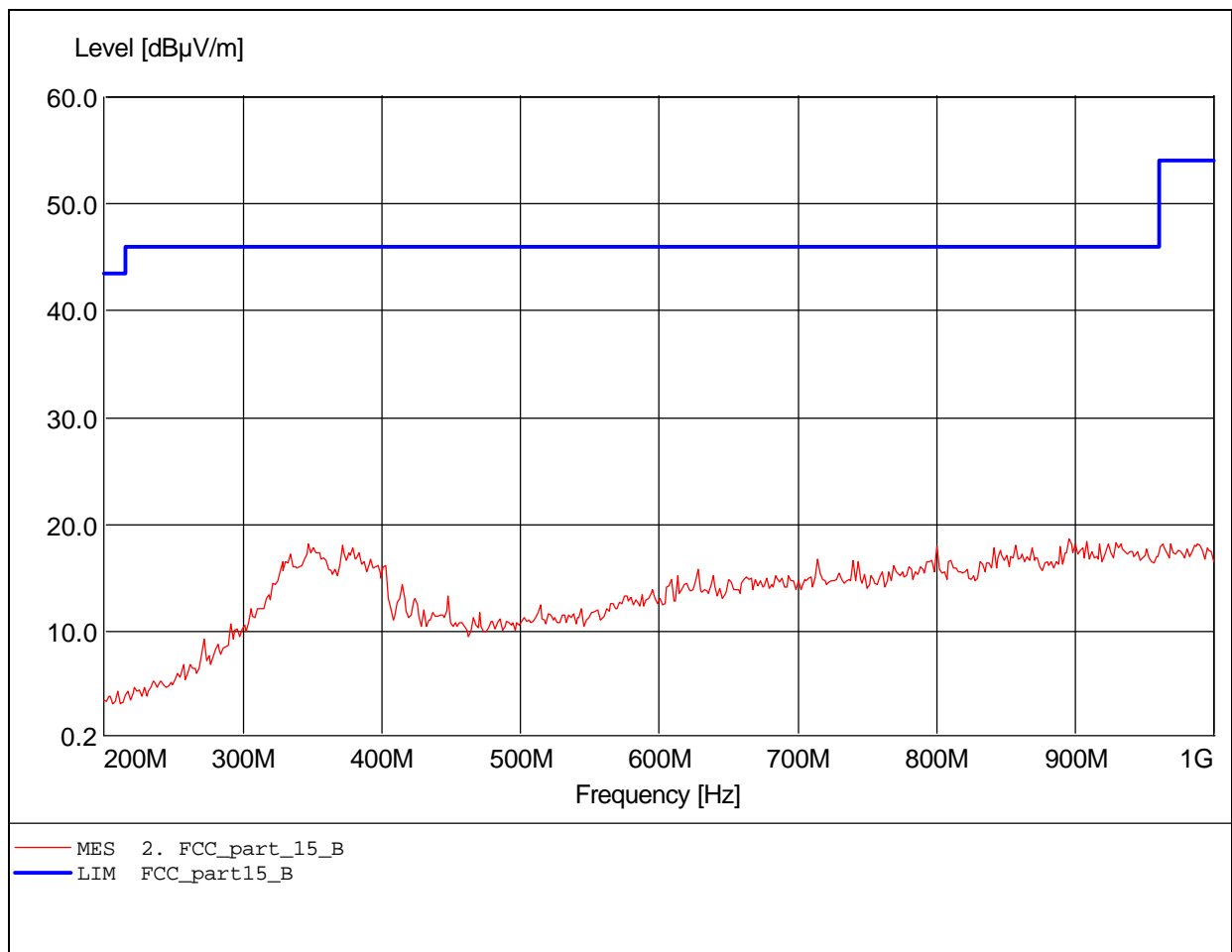


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:895.792MHz Emax:18.63dBμV/m RBW: 100 kHz

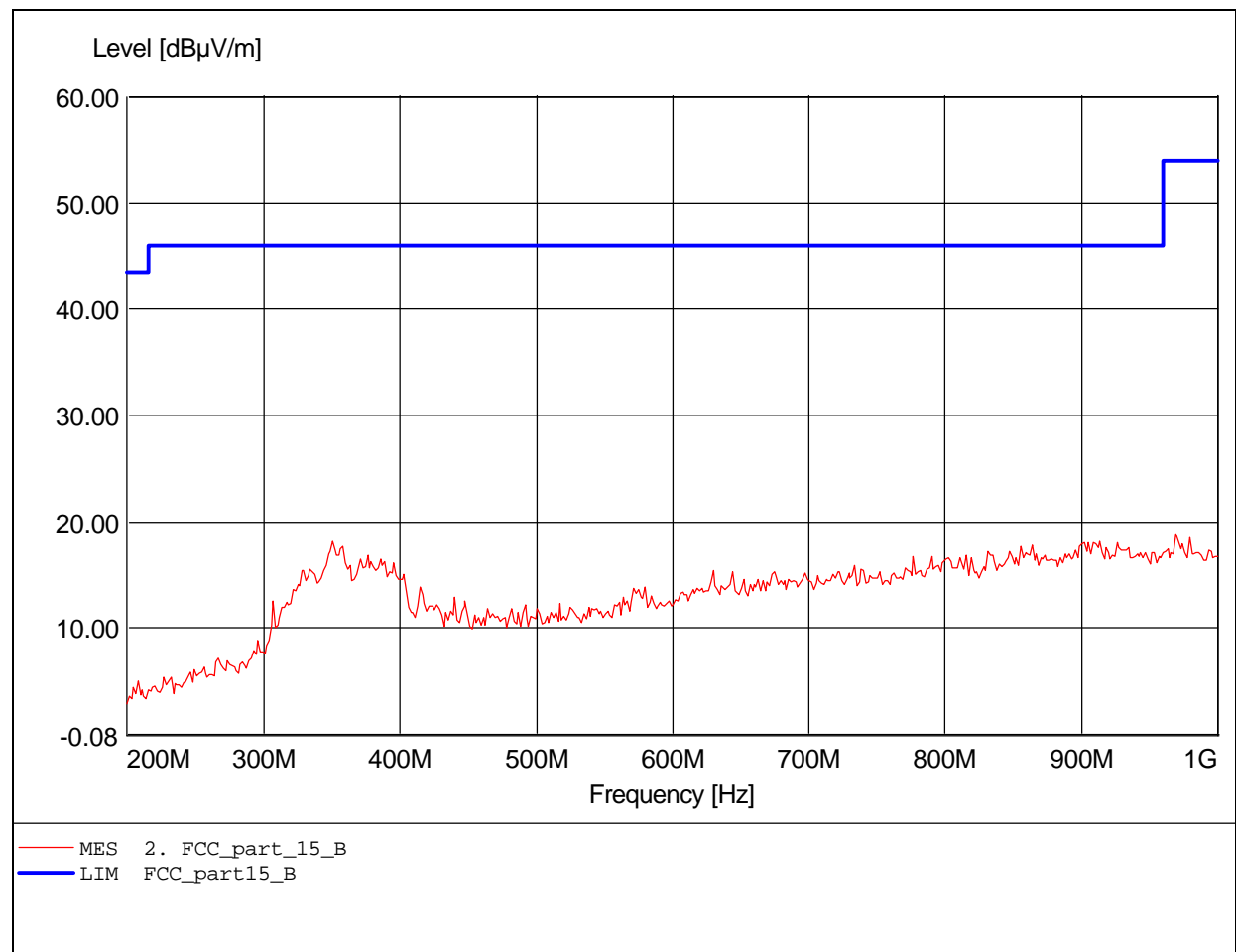


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq: 969.539MHz Emax: 18.83dBμV/m RBW: 100 kHz

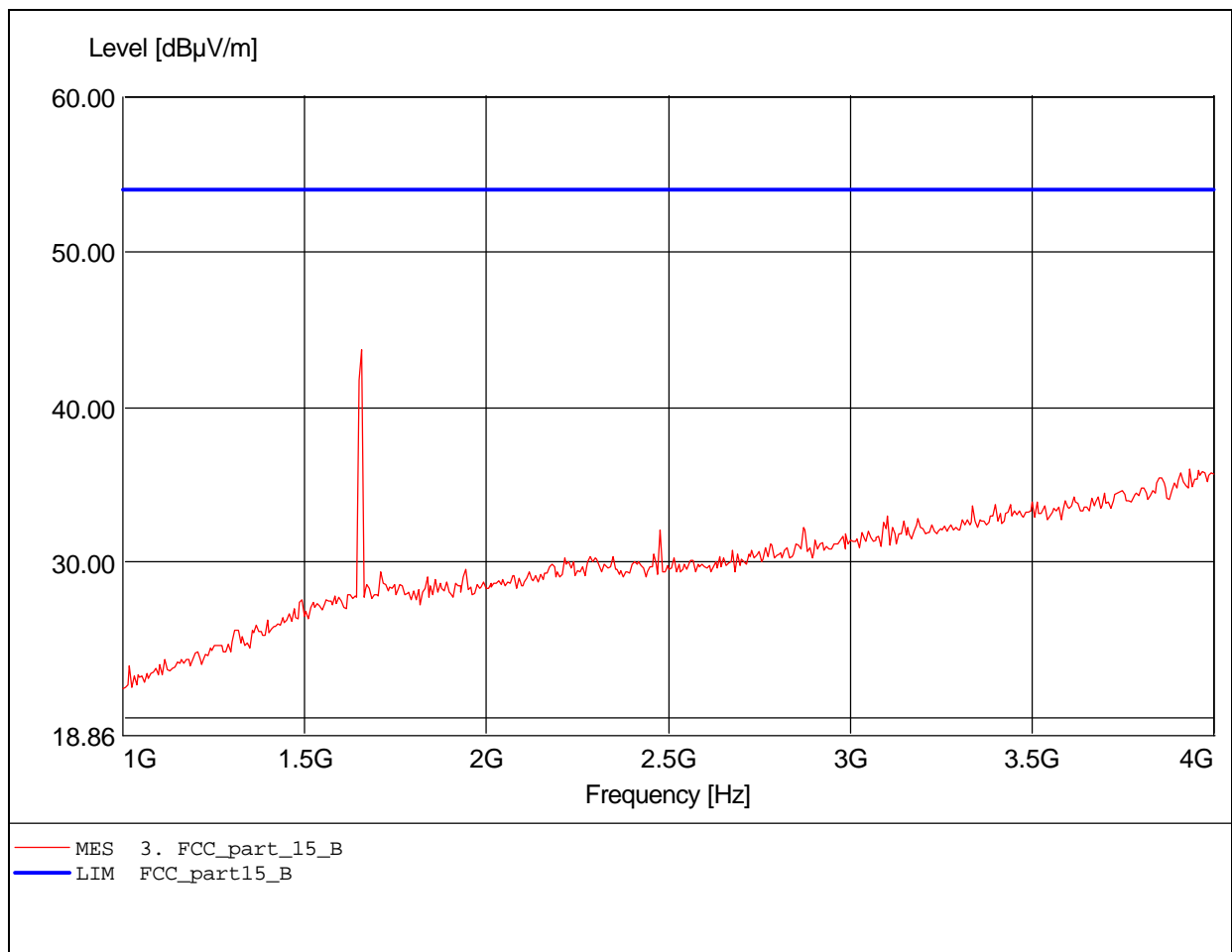


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.655GHz Emax:43.76dBμV/m RBW: 1 MHz

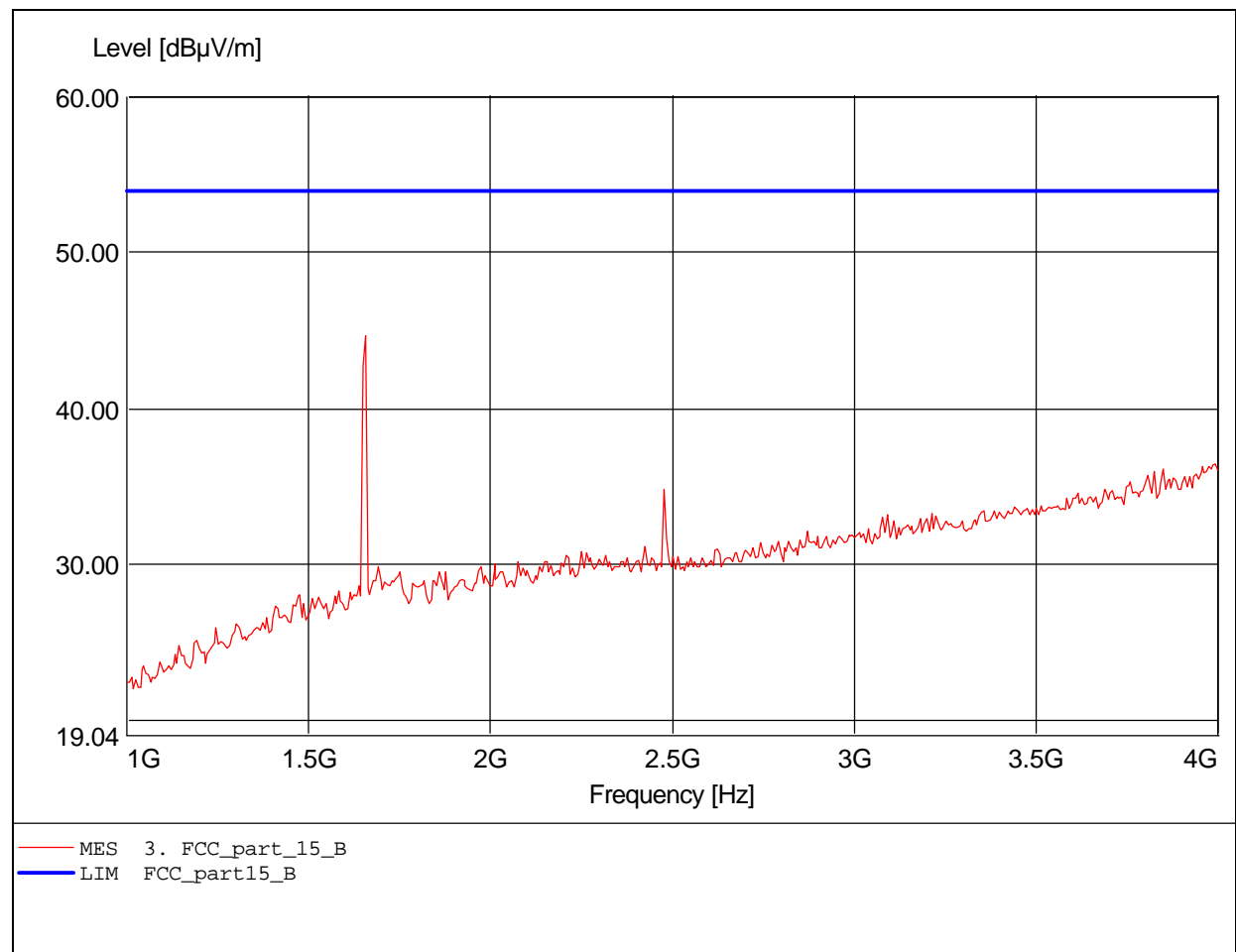


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.655GHz Emax:44.68dBμV/m RBW: 1 MHz

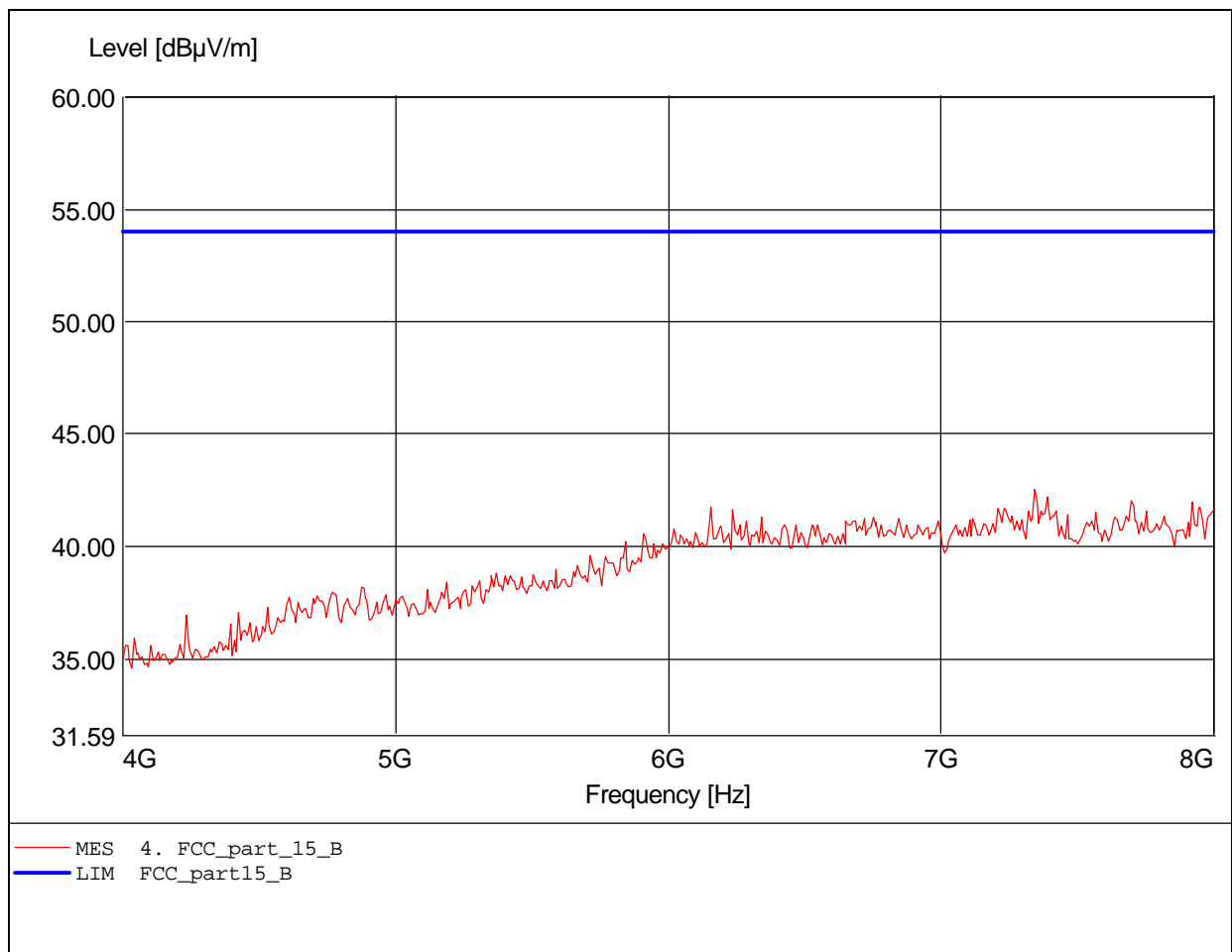


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 7.343GHz Emax: 42.55dB μ V/m RBW: 1 MHz

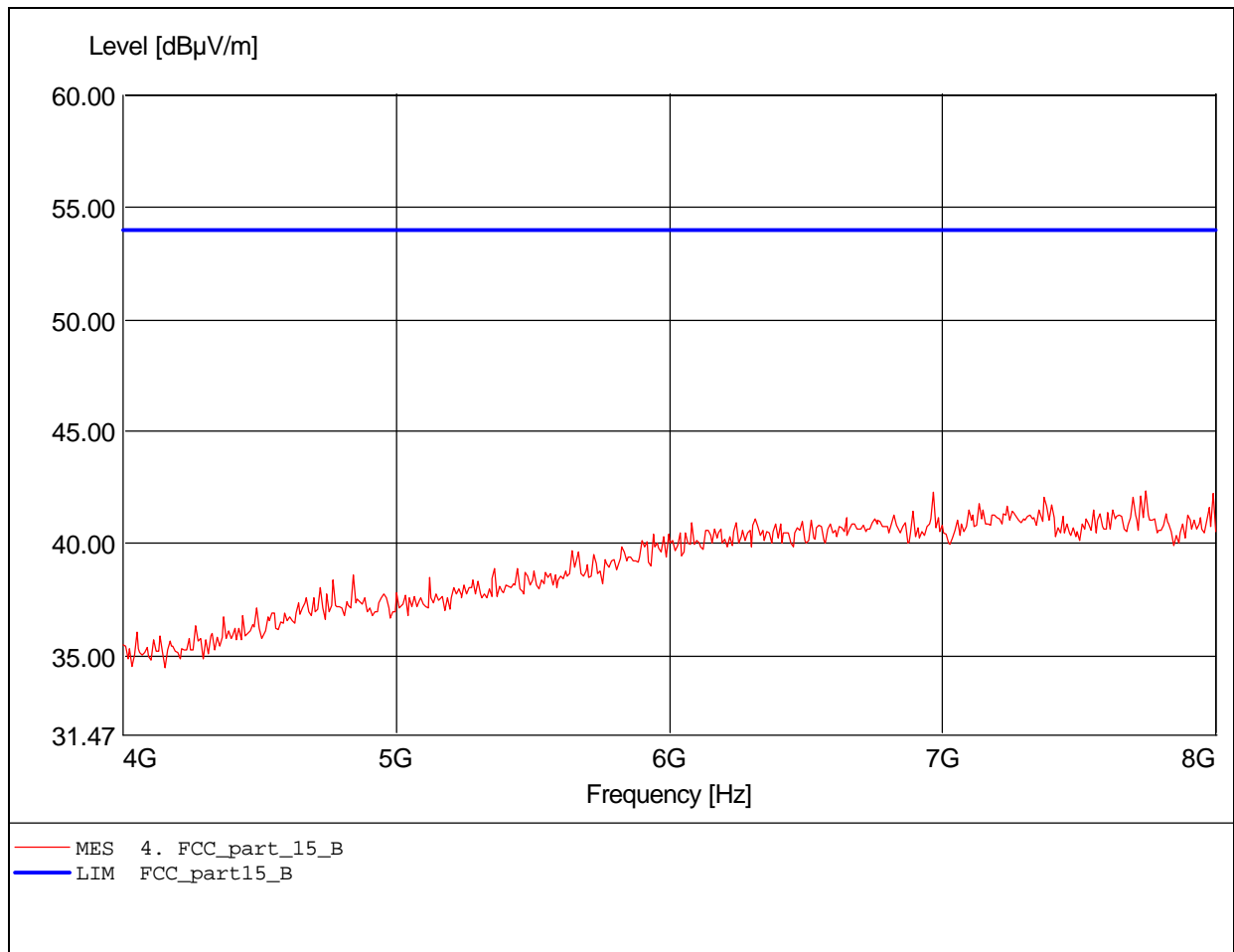


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 7.743GHz Emax: 42.39dB μ V/m RBW: 1 MHz

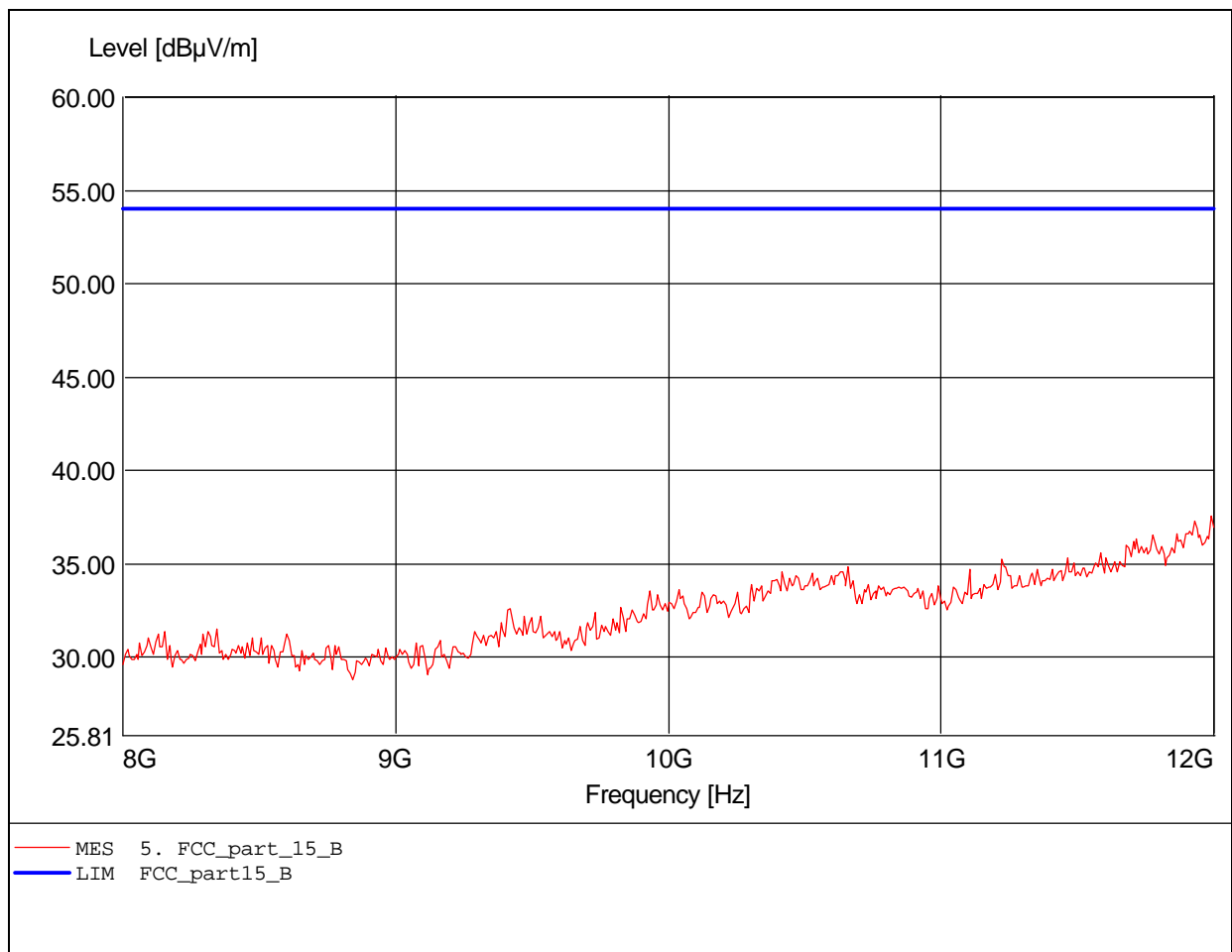


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 11.992GHz Emax: 37.61dBμV/m RBW: 1 MHz

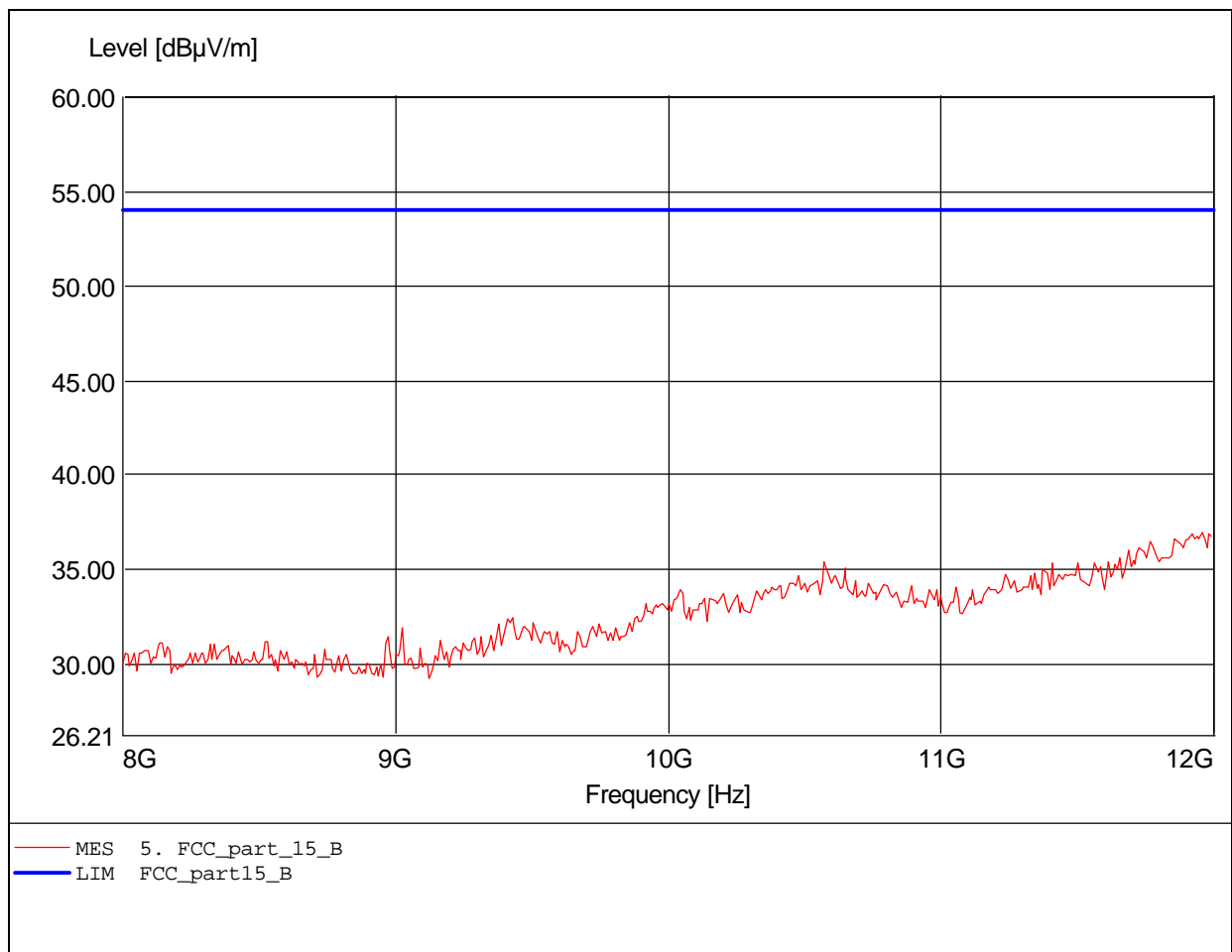


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq: 11.960GHz Emax: 36.96dBμV/m RBW: 1 MHz

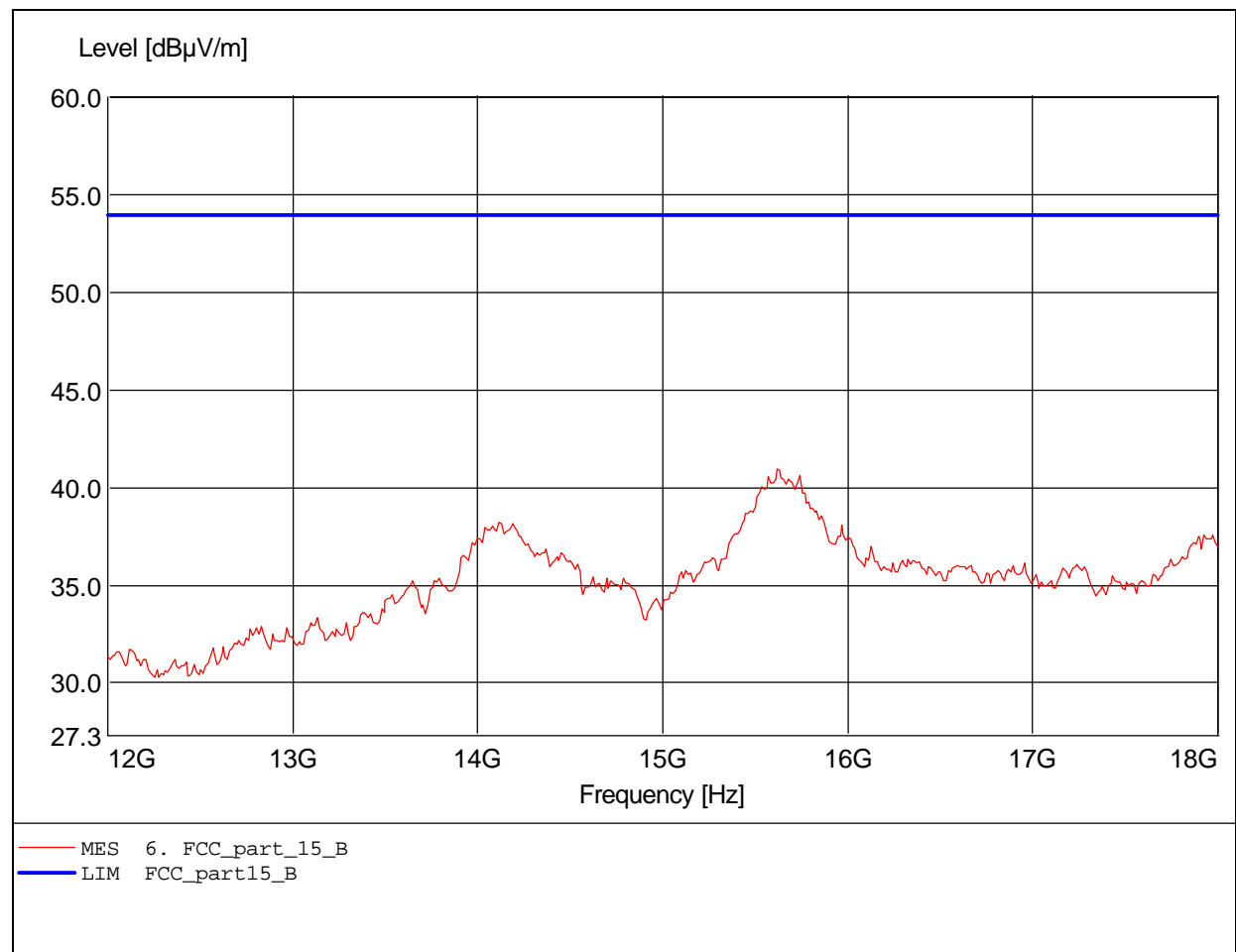


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:15.619GHz Emax:40.94dBμV/m RBW: 1 MHz

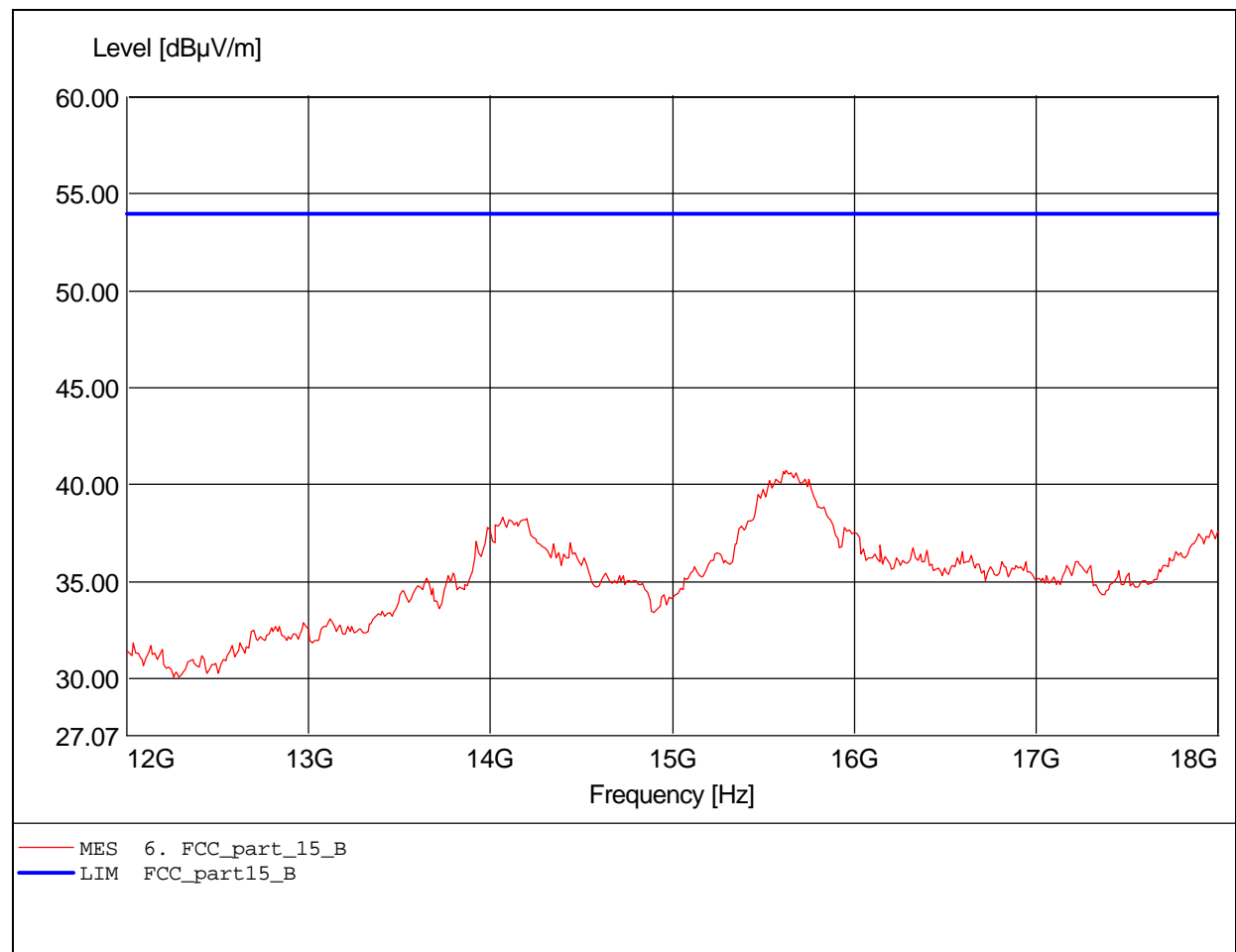


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:15.631GHz Emax:40.75dBμV/m RBW: 1 MHz

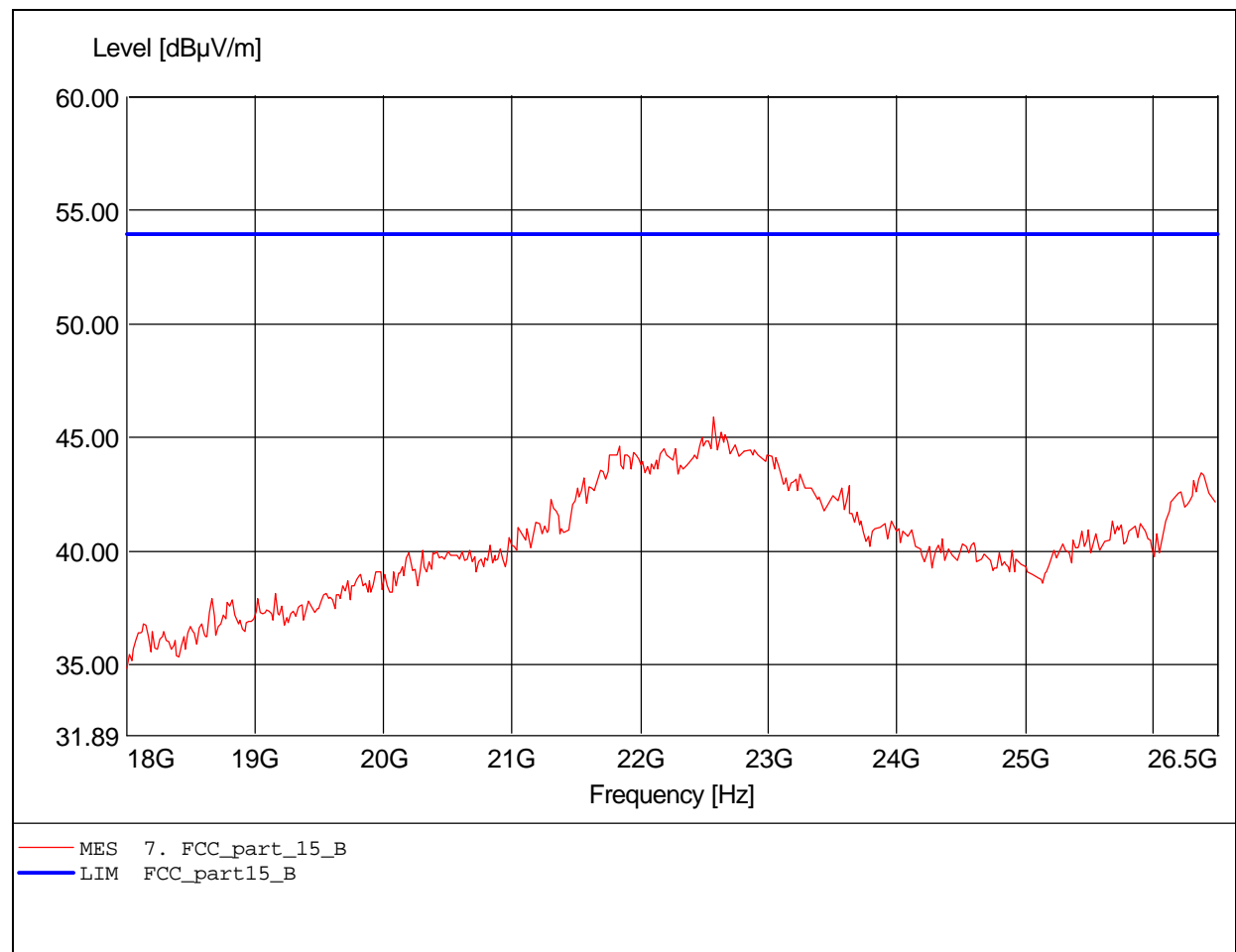


Antenna vertical

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Freq: 22.565GHz Emax: 45.93dB μ V/m RBW: 1 MHz

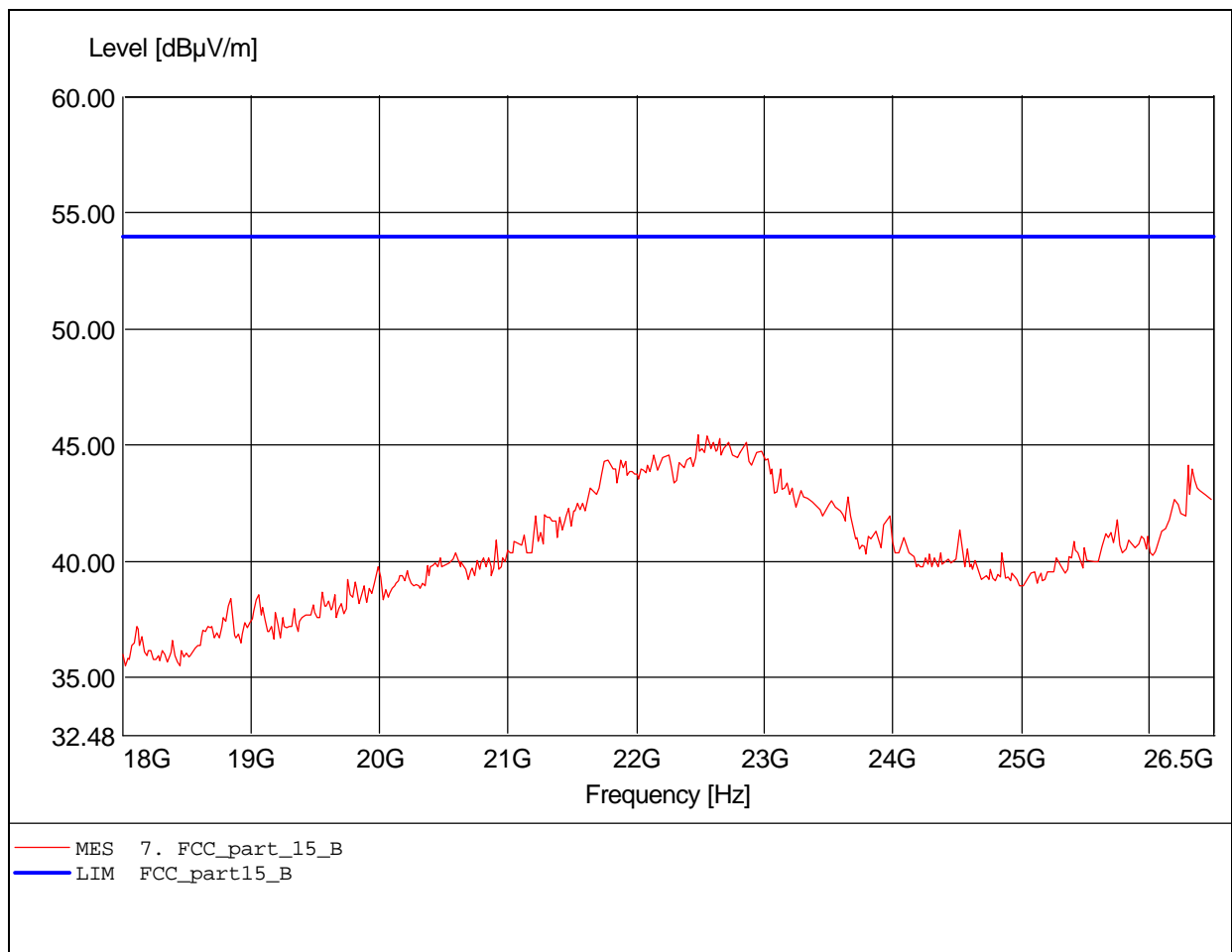


Antenna horizontal

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Bluetooth Headset
MODEL NO.: ARGARD / M20
Approval Holder: Argard Co., Ltd.
Test Site / Operator: ETSPS / Mr. Sin
Temperature/Voltage: Temp.: 23°C/ Unom.: 3.7V DC rechargeable battery
Test Specification: according to subpart B / mode: Rx (2.480 GHz)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Freq: 22.480GHz Emax: 45.45dB μ V/m RBW: 1 MHz



Antenna vertical