



FCC TEST REPORT FCC 47 CFR Part 15C Industry Canada RSS-210 Digital transmission systems operating within the 2400 – 2483.5 MHz band	
Report Reference No.	G0M-1206-2073-TFC247W-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	<div style="text-align: center;">   </div> <p>A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A</p>
Applicant's name	Kondo Kagaku Co., Ltd.
Address	4-17-7 Higashi Nippori, Arakawa-Ku Tokyo 116-0014 JAPAN
Test specification:	
Standard.....	47 CFR Part 15C KDB Publication No. 558074 RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
Equipment under test (EUT):	
Product description	Radio Control Transmitter for Model cars
Model No.	EX-1 ASF
Hardware version	1.00
Firmware / Software version	1.00
	FCC-ID: QH9KTSS-701 IC: N/A
Test result	Passed

Possible test case verdicts:

- neither assessed nor tested: N/N
- required by standard but not appl. to test object.....: N/A
- required by standard but not tested.....: N/T
- not required by standard for the test object: N/R
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing:

Date of receipt of test item: 2012-07-10

Date (s) of performance of tests: 2012-07-25

Compiled by: Antje Bartusch

Tested by (+ signature).....: Wilfried Treffke

(Testing Manager)

Approved by (+ signature): Jens Zimmermann

(Test Lab Manager)

Date of issue: 2012-10-24

Total number of pages: 78




General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

REPORT INDEX

1	EQUIPMENT (TEST ITEM) DESCRIPTION	4
1.1	Photos – Equipment External	5
1.2	Photos – Equipment internal	6
1.3	Photos – Test setup	8
1.4	Supporting Equipment Used During Testing	9
1.5	Test Modes	10
1.6	Test Equipment Used During Testing	11
1.7	Sample emission level calculation	12
2	RESULT SUMMARY	13
3	TEST CONDITIONS AND RESULTS	14
3.1	Test Conditions and Results – Occupied Bandwidth	14
3.2	Test Conditions and Results – 6 dB Bandwidth	18
3.3	Test Conditions and Results – Maximum peak conducted power	22
3.4	Test Conditions and Results – Power spectral density	23
3.5	Test Conditions and Results – Band edge compliance	24
3.6	Test Conditions and Results – Conducted spurious emissions	27
3.7	Test Conditions and Results – Transmitter radiated emissions	31
ANNEX A	Transmitter radiated spurious emissions	33

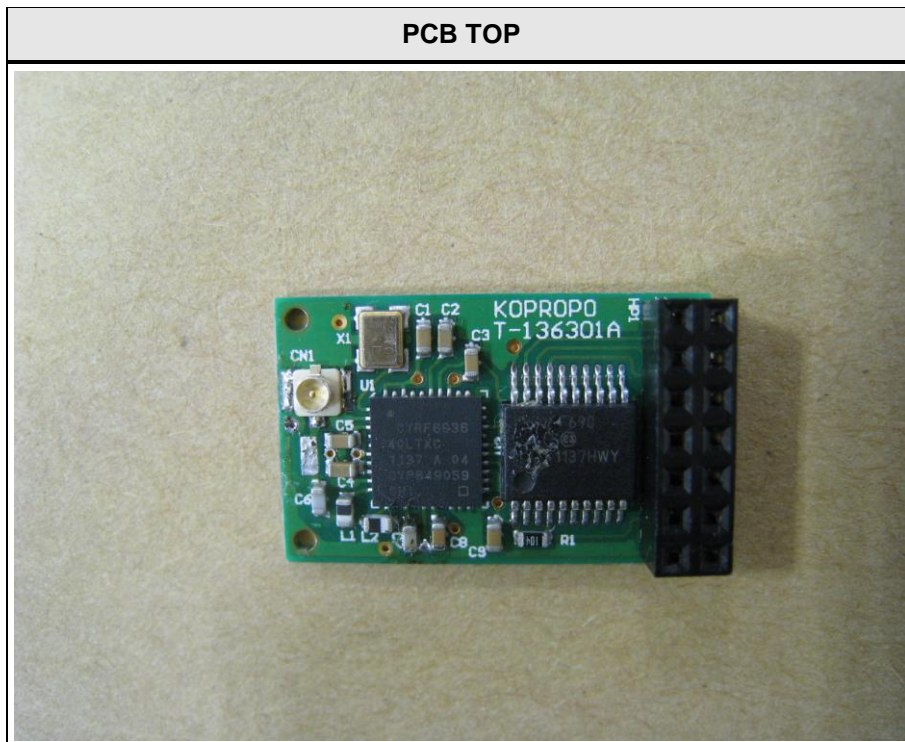
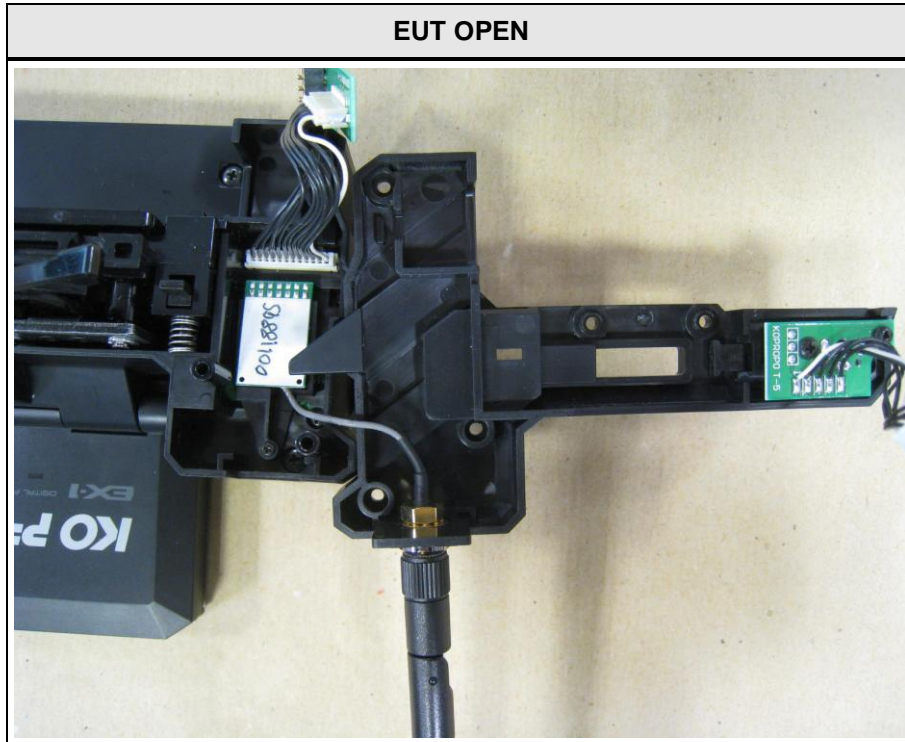
1 Equipment (Test item) Description

Description	Radio Control Transmitter for Model cars	
Model	EX-1 ASF	
Serial number	None	
Hardware version	1.00	
Software / Firmware version	1.00	
FCC-ID	QH9KTSS-701	
IC	N/A	
Equipment type	End product	
Radio type	Transmitter only	
Radio technology	Custom Digital Transmitter	
Operating frequency range	2404 - 2480 MHz	
Assigned frequency band	2400 - 2483.5 MHz	
Main test frequencies	F _{LOW}	2404 MHz
	F _{MID}	2440 MHz
	F _{HIGH}	2480 MHz
Spreading	DSSS	
Modulations	FSK	
Number of channels	39	
Channel spacing	2MHz	
Number of antennas	1	
Antenna	Type	external dedicated
	Model	simple wire antenna
	Manufacturer	unspecified
	Gain	1.9dBi (declared by customer)
Power supply	V _{NOM}	6.0 VDC
	V _{MIN}	-- VDC
	V _{MAX}	-- VDC
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

1.1 Photos – Equipment External



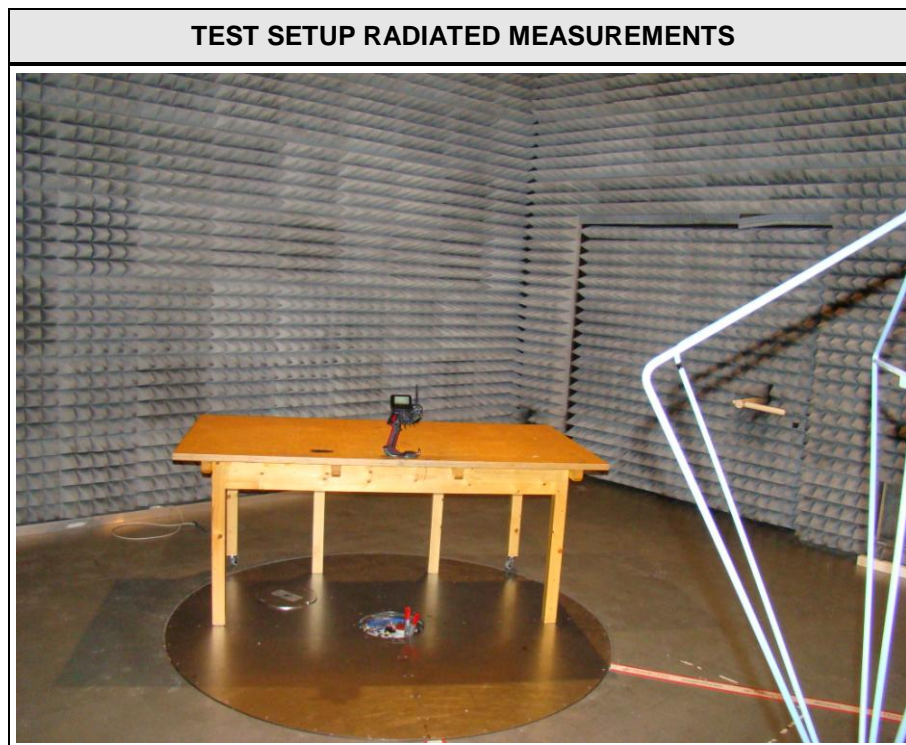
1.2 Photos – Equipment internal



PCB BOTTOM



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
None				
<p>*Note: Use the following abbreviations:</p> <p style="padding-left: 40px;">AE : Auxiliary/Associated Equipment, or</p> <p style="padding-left: 40px;">SIM : Simulator (Not Subjected to Test)</p> <p style="padding-left: 40px;">CABL : Connecting cables</p>				

1.5 Test Modes

Mode #	Description	
DSSS	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = DSSS Modulation = FSK Duty cycle = 100 % Power level = Maximum

1.6 Test Equipment Used During Testing

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2011-12	2012-12

6dB Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2011-12	2012-12

Maximum peak conducted power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2011-12	2012-12

Power spectral density					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2011-12	2012-12

Band edge compliance					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2011-12	2012-12

Conducted spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2011-12	2012-12

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 5	EF00395	-	-
Spectrum Analyzer	R&S	FSIQ26	EF00151	2011-11	2012-11
Biconical Antenna	R&S	HK 116	EF00012	2010-01	2013-01
LPD Antenna	R&S	HL 223	EF00187	2011-02	2014-02
LPD Antenna	R&S	HL 025	EF00327	2010-02	2013-02

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dB μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ V/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 * \log (\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

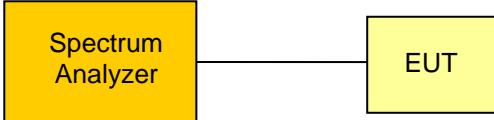
$$\begin{array}{rclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading - FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{ dB} \end{array}$$

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 4.6.1	Occupied Bandwidth	RSS-Gen 4.6.1	N/R	Informational only
FCC § 15.247(a)(2) IC RSS-210 § A8.2	6dB Bandwidth	KDB Publication No. 558074	PASS	
FCC § 15.247(b)(3) IC RSS-210 § A8.4	Maximum peak conducted power	KDB Publication No. 558074	PASS	
FCC § 15.247(e) IC RSS-210 § A8.2	Power spectral density	KDB Publication No. 558074	PASS	
47 CFR 15.207 RSS-Gen 7.2.4	AC power line conducted emissions	KDB Publication No. 558074 / ANSI C63.4	N/A	
FCC § 15.247(d) IC RSS-210 § A8.5	Band edge compliance	KDB Publication No. 558074	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	KDB Publication No. 558074	PASS	
FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 4.9 IC RSS-Gen 7.2.5	Transmitter radiated spurious emissions	KDB Publication No. 558074 / ANSI C 63.4	PASS	
IC RSS-Gen 4.10 IC RSS-Gen 6.1	Receiver radiated spurious emissions	ANSI C 63.4	N/A	
Remarks:				

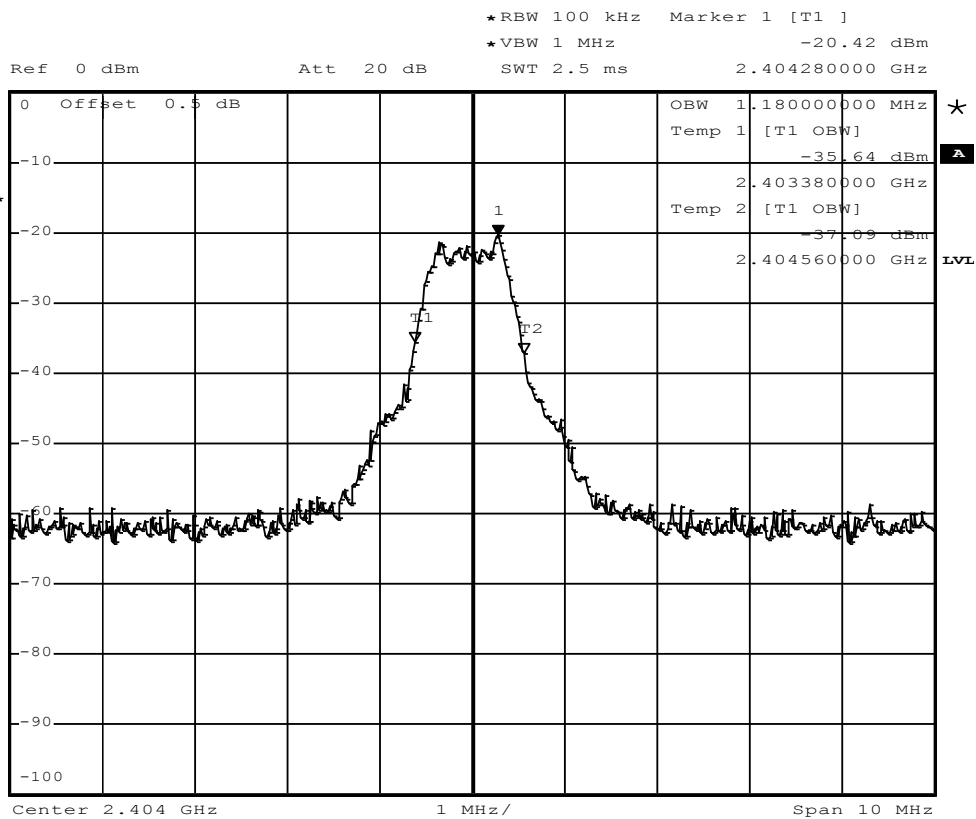
3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

Occupied Bandwidth acc. IC RSS-Gen		Verdict: PASS	
Test according to measurement reference	Reference Method		
	RSS-Gen 4.6.1		
Test frequency range	Tested frequencies		
	$F_{LOW} / F_{MID} / F_{HIGH}$		
Limits			
None (Informational only)			
Test setup			
			
Test procedure			
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function			
Test results			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [MHz]
F_{LOW}	2404	DSSS	1.18
F_{MID}	2440	DSSS	1.16
F_{HIGH}	2480	DSSS	1.18
Comments:			

Occupied Bandwidth – DSSS F_{LOW}
**RSS Gen
Occupied Bandwidth**

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2404 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	DSSS



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Occupied Bandwidth – DSSS F_{MID}
**RSS Gen
Occupied Bandwidth**

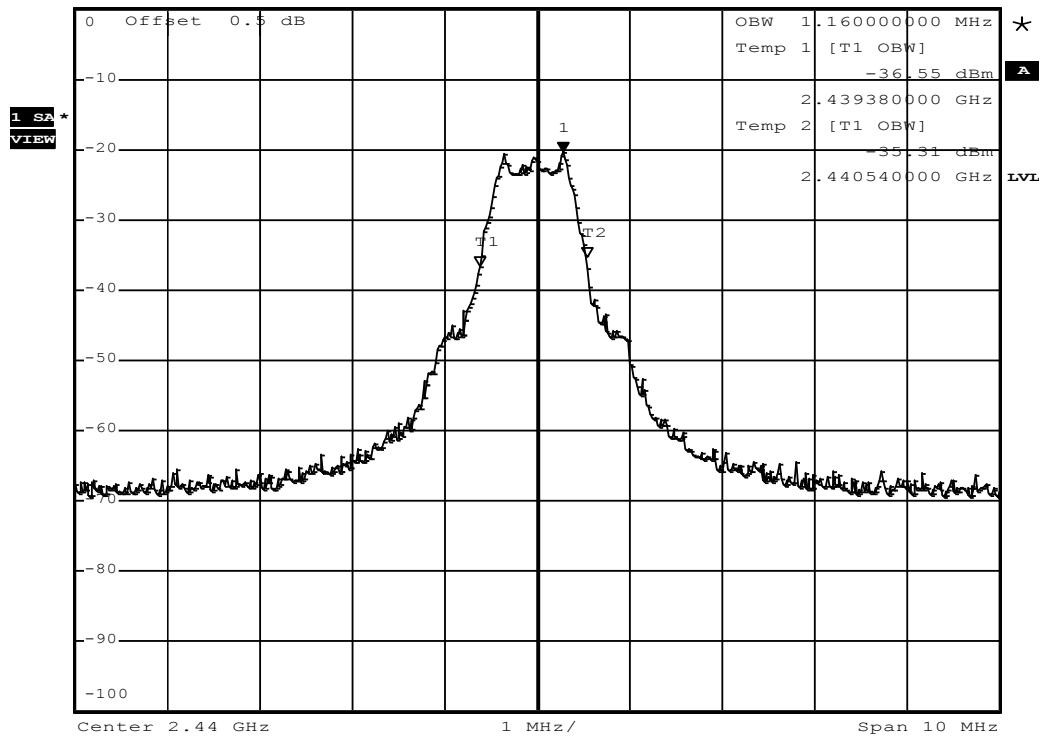
EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2440 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	DSSS



*RBW 100 kHz Marker 1 [T1]

*VBW 1 MHz -20.23 dBm

Ref 0 dBm Att 20 dB SWT 2.5 ms 2.440280000 GHz



Date: 25.JUL.2012 13:44:28

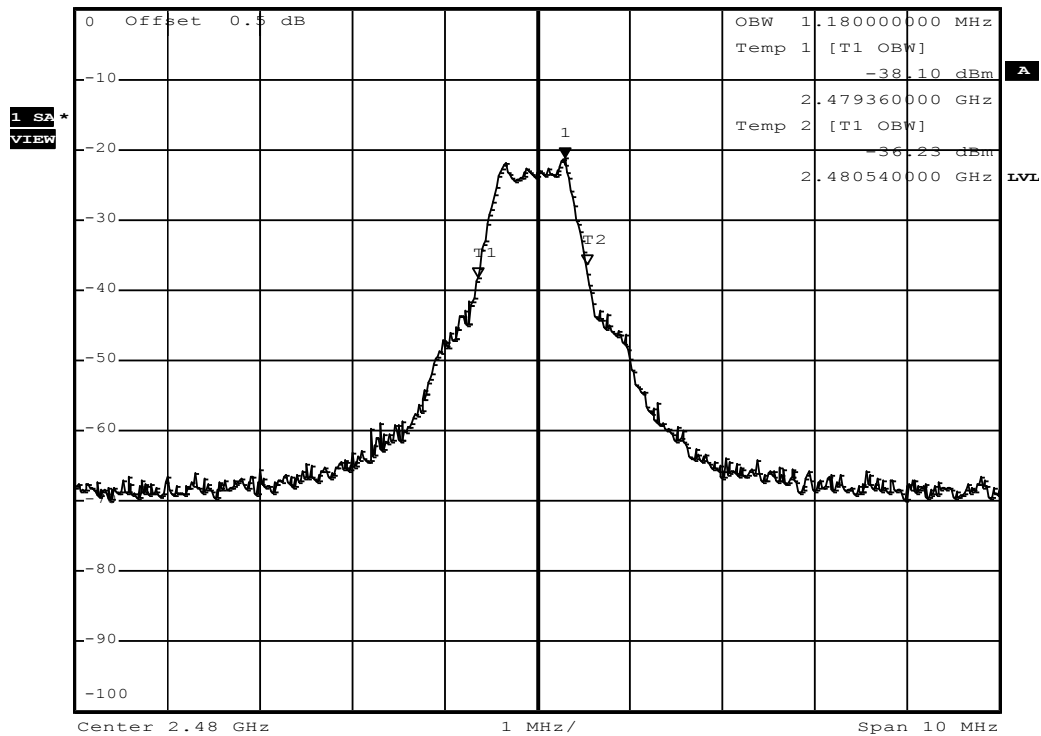
Occupied Bandwidth – DSSS F_{HIGH}
**RSS Gen
Occupied Bandwidth**

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2480 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	DSSS




*RBW 100 kHz Marker 1 [T1]
*VBW 1 MHz -21.13 dBm

Ref 0 dBm Att 20 dB SWT 2.5 ms 2.480300000 GHz



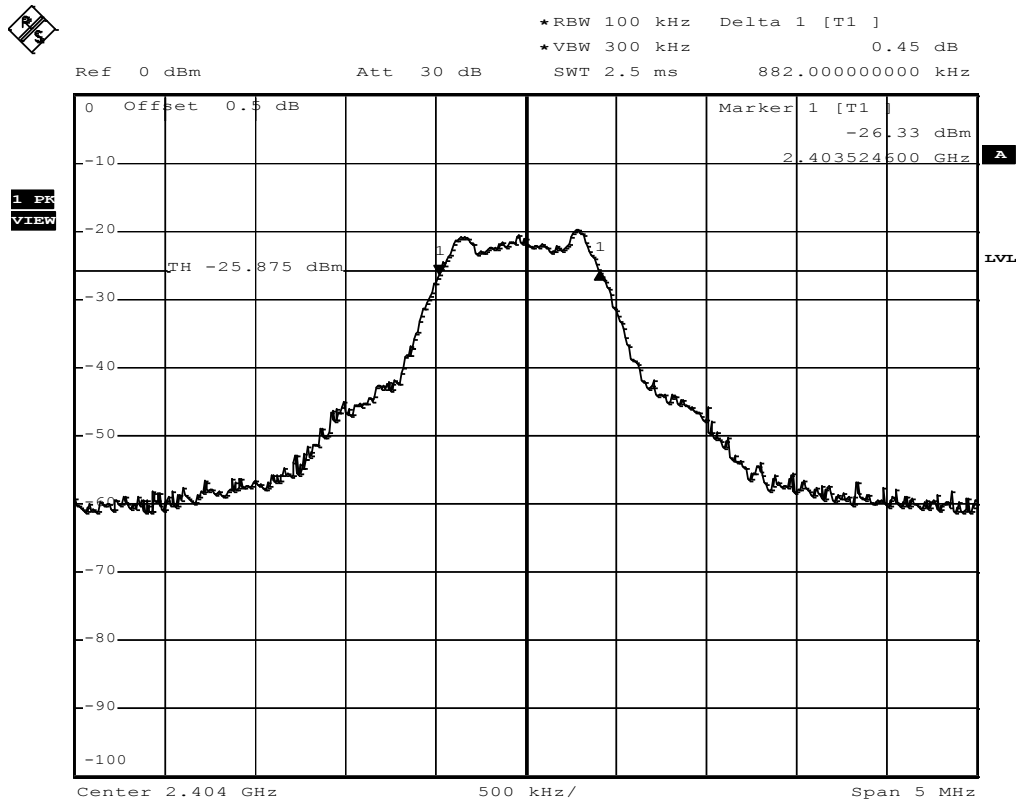
Date: 25.JUL.2012 13:46:01

3.2 Test Conditions and Results – 6 dB Bandwidth

6dB Bandwidth acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause	Reference				
	FCC 15.247(a)(2) / IC RSS-210 A8.2				
Test according to measurement reference	Reference Method				
	FCC KDB Publication No. 558074				
Test frequency range	Tested frequencies				
	$F_{LOW} / F_{MID} / F_{HIGH}$				
Limits					
≥ 500kHz					
Test setup					
 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre>					
Test procedure					
<ol style="list-style-type: none"> 1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and RBW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6 dB Bandwidth is determined by marker frequency separation 					
Test results					
Channel	Frequency [MHz]	Mode	6 dB Bandwidth [kHz]	Limit [kHz]	Result
F_{LOW}	2404	DSSS	882	500	PASS
F_{MID}	2440	DSSS	890	500	PASS
F_{HIGH}	2480	DSSS	901	500	PASS
Comments:					

6 dB Bandwidth – DSSS F_{LOW}
**FCC part 15.247 (a)2
Minimum 6 dB Bandwidth**

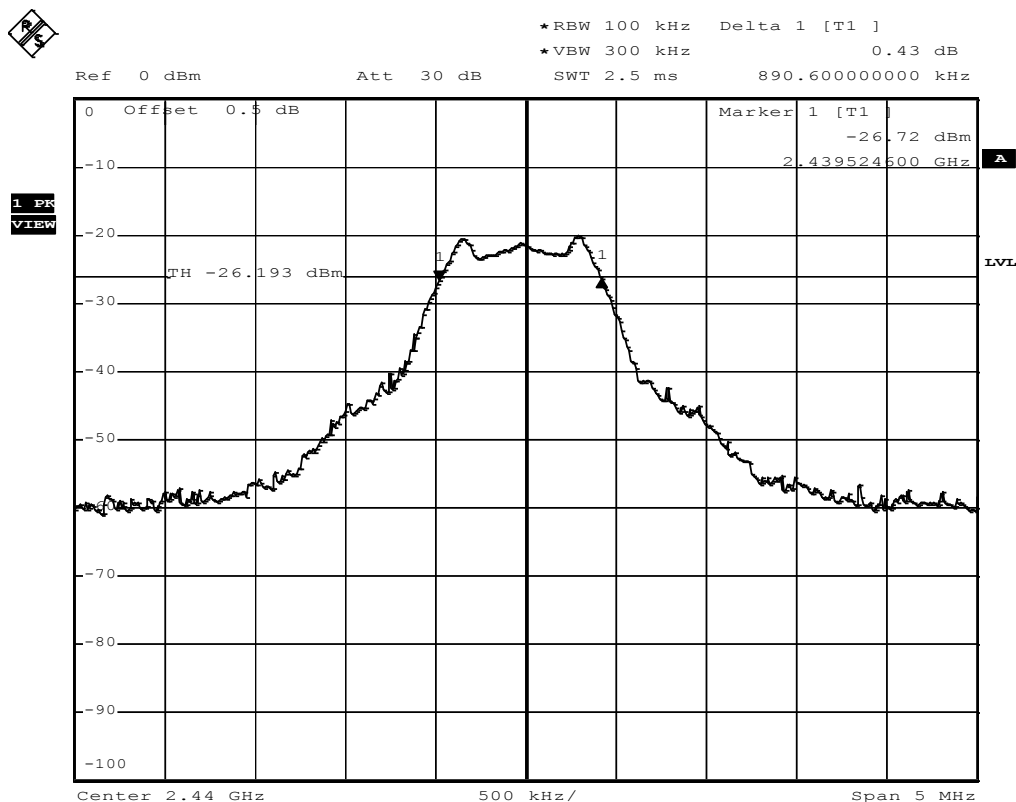
EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15.247 (a)2
Comment 1	Minimum 6 dB Bandwidth
Comment 2	Channel : 24804 MHz
Comment 3	DSSS



Comment: 6 dB bandwidth: 882 KHz > 500 KHz; verdict: PASS
 Date: 25.JUL.2012 12:50:05

6 dB Bandwidth – DSSS F_{MID}
**FCC part 15.247 (a)2
Minimum 6 dB Bandwidth**

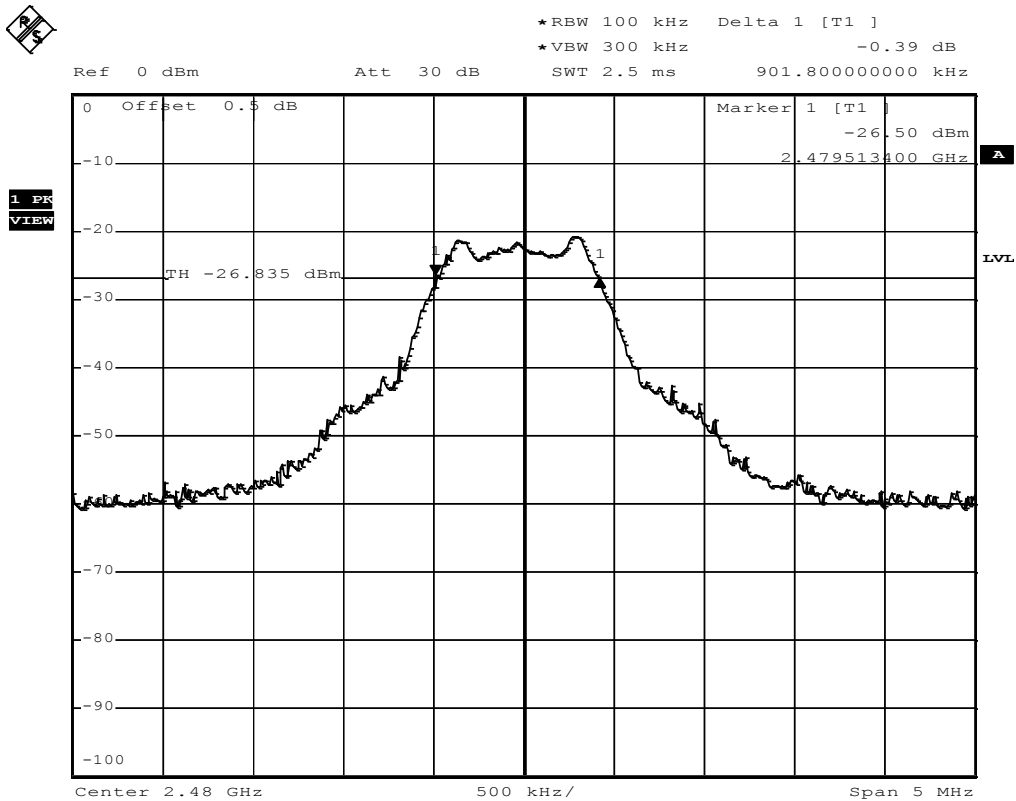
EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15.247 (a)2
Comment 1	Minimum 6 dB Bandwidth
Comment 2	Channel : 2440 MHz
Comment 3	DSSS



Comment: 6 dB bandwidth: 890.6 KHz > 500 KHz; verdict: PASS
Date: 25.JUL.2012 12:54:18

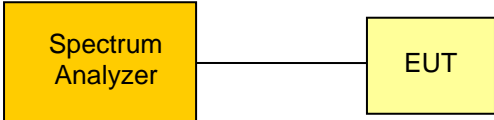
6 dB Bandwidth – DSSS F_{HIGH}
**FCC part 15.247 (a)2
Minimum 6 dB Bandwidth**

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15.247 (a)2
Comment 1	Minimum 6 dB Bandwidth
Comment 2	Channel : 2480 MHz
Comment 3	DSSS




Comment: 6 dB bandwidth: 901.8 KHz > 500 KHz; verdict: PASS
 Date: 25.JUL.2012 12:45:53

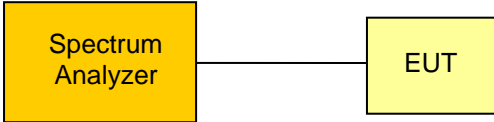
3.3 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. FCC 15.247 / IC RSS-210						Verdict: PASS	
EUT requirement rule parts and clause	Reference						
	FCC 15.247(b)(3) / IC RSS-210 A8.4						
Test according to measurement reference	Reference Method						
	FCC KDB Publication No. 558074						
Test frequency range	Tested frequencies						
	$F_{LOW} / F_{MID} / F_{HIGH}$						
Measurement mode	Peak						
Maximum antenna gain	1.9 dBi \Rightarrow Limit correction = 0 dB						
Limits							
1 W (30 dBm)							
<p>The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. 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 the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>							
Test setup							
 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre>							
Test procedure							
<ol style="list-style-type: none"> EUT set to test mode (Communication tester is used if needed) Center frequency set to test channel center frequency Span set to twice the 20 dB bandwidth and detector to peak and max hold Resolution bandwidth is set to 3 MHz Peak conducted power is determined from peak of spectrum envelope 							
Test results							
Channel	Frequency [MHz]	Voltage [VDC]	Mode	Peak power [dbm]	Peak power [mW]	Limit [dBm]	Margin [dB]
F_{LOW}	2404	$V_{NOM} = 6.0$	DSSS	-19.4	0.007	30	-49.40
F_{MID}	2440	$V_{NOM} = 6.0$	DSSS	-19.8	0.006	30	-49.80
F_{HIGH}	2480	$V_{NOM} = 6.0$	DSSS	-20.3	0.006	30	-50.30
Comments:							

3.4 Test Conditions and Results – Power spectral density

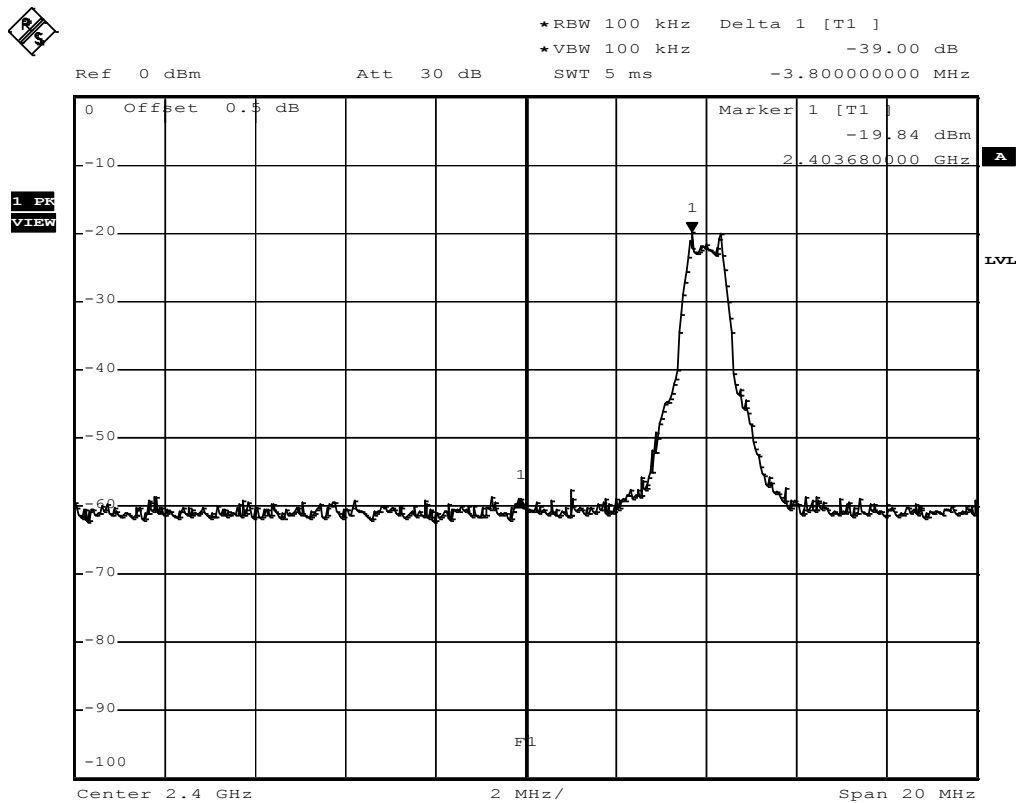
Power spectral density acc. FCC 15.247 / IC RSS-210				Verdict: PASS		
EUT requirement rule parts and clause	Reference					
	FCC 15.247(e) / IC RSS-210 A8.2					
Test according to measurement reference	Reference Method					
	FCC KDB Publication No. 558074					
Test frequency range	Tested frequencies					
	$F_{\text{LOW}} / F_{\text{MID}} / F_{\text{HIGH}}$					
Measurement mode	Peak					
Limits						
8 dBm / 3 kHz						
Test setup						
						
Test procedure						
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span is set large enough to capture maximum emissions in passband, RBW is set to 3kHz 4. Peak power density is determined from peak emission of envelope 						
Test results						
Channel	Frequency [MHz]	Test mode	Peak frequency [MHz]	Peak power density [dBm]	Limit [dBm/3kHz]	Margin [dB]
F_{LOW}	2404	DSSS	2403	-28.3	8.0	-36.30
F_{MID}	2440	DSSS	2439	-27.3	8.0	-35.30
F_{HIGH}	2480	DSSS	2480	-27.6	8.0	-35.60
Comments:						

3.5 Test Conditions and Results – Band edge compliance

Band-edge compliance acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause	Reference				
	FCC 15.247(d) / IC RSS-210 A8.5				
Test according to measurement reference	Reference Method				
	FCC KDB Publication No. 558074				
Test frequency range	Tested frequencies				
	F_{LOW} / F_{HIGH}				
Measurement mode	Peak				
Limits					
Limit			Condition		
≤ -20 dB / 100 kHz			Peak power measurement detector = Peak		
≤ -30 dB / 100 kHz			Peak power measurement detector = RMS		
Test setup					
					
Test procedure					
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference 					
Test results					
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]
F_{LOW}	2404	DSSS	-39.0	-20	-19.00
F_{HIGH}	2480	DSSS	-38.7	-20	-18.70
Comments:					

Band-edge compliance – DSSS F_{LOW}
FCC part 15.247
Band-edge compliance of RF conducted emissions

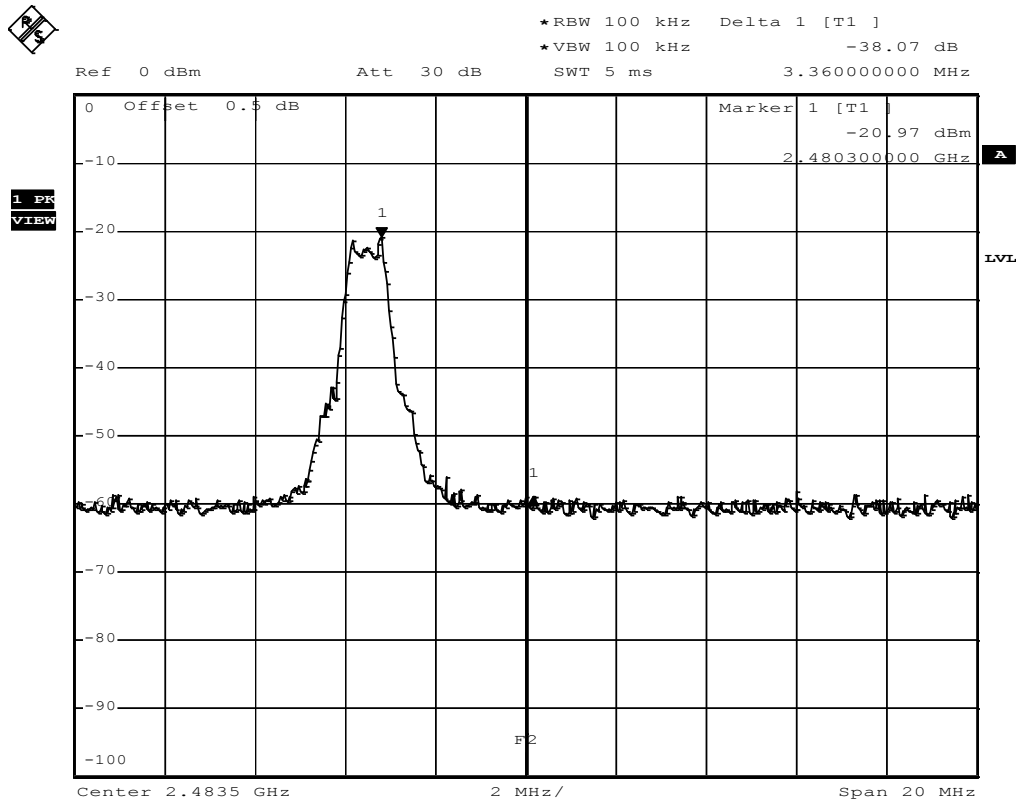
EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 2404 MHz
Comment 3	DSSS



Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 25.JUL.2012 13:51:54


Band-edge compliance – DSSS F_{HIGH}
FCC part 15.247
Band-edge compliance of RF conducted emissions

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 2480 MHz
Comment 3	DSSS



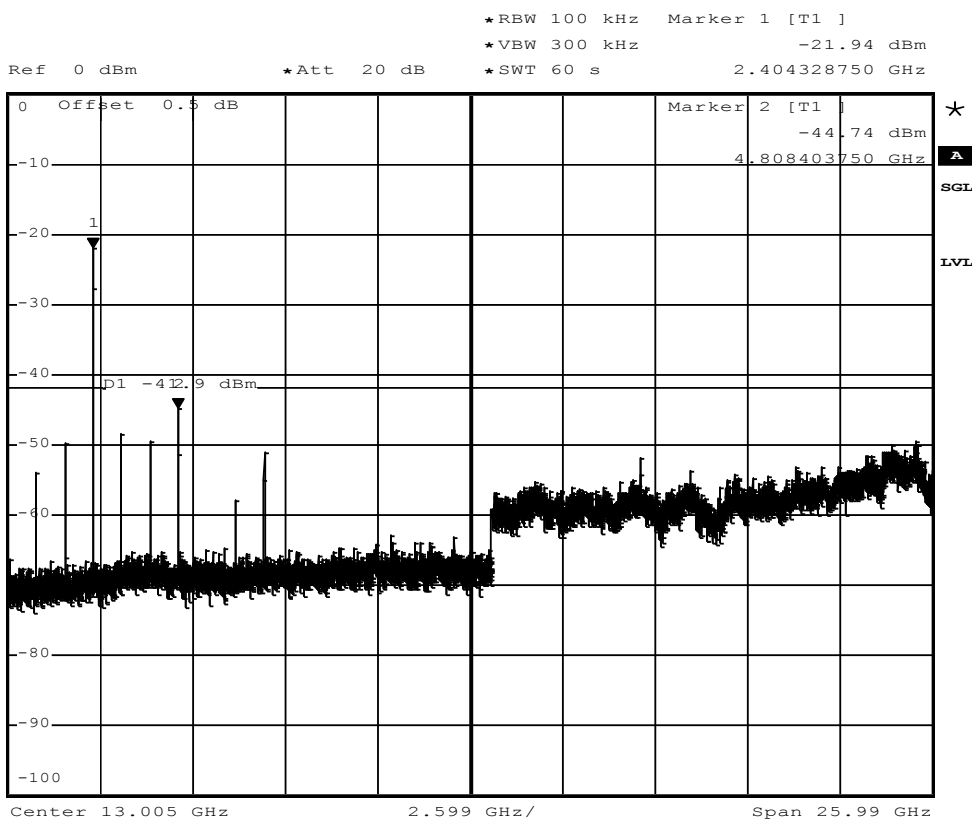
Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 25.JUL.2012 13:49:23

3.6 Test Conditions and Results – Conducted spurious emissions

Conducted spurious emissions acc. FCC 15.247 / IC RSS-210						Verdict: PASS	
EUT requirement rule parts and clause		Reference					
		FCC 15.247(d) / IC RSS-210 A8.5					
Test according to measurement reference		Reference Method					
		FCC KDB Publication No. 558074					
Test frequency range		Tested frequencies					
		10 MHz – 10 th Harmonic					
Measurement mode		Peak					
Limits							
Limit				Condition			
≤ -20 dB / 100 kHz				Peak power measurement detector = Peak			
≤ -30 dB /100 kHz				Peak power measurement detector = RMS			
Test setup							
							
Test procedure							
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth is set to 100 kHz and detector to peak and max hold 4. Markers are set to peak emission levels within frequency band 5. Emission level is determined by second marker on emission peak 6. Attenuation is determined from level difference 							
Test results							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Peak power [dBm]	Limit [dBm]	Margin [dB]
F _{LOW}	2404	DSSS	4808.40	-44.74	-21.94	-41.94	-02.80
F _{MID}	2440	DSSS	4808.40	-44.74	-20.93	-40.93	-03.81
F _{HIGH}	2480	DSSS	4957.84	-44.96	-23.08	-43.08	-01.88
Comments:							

Conducted spurious emissions – DSSS F_{LOW}
**FCC part 15.247 (d)
Spurious Emissions**

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15.247 (d)
Comment 1	Spurious Emissions conducted
Comment 2	Channel : 2404 MHz
Comment 3	pass



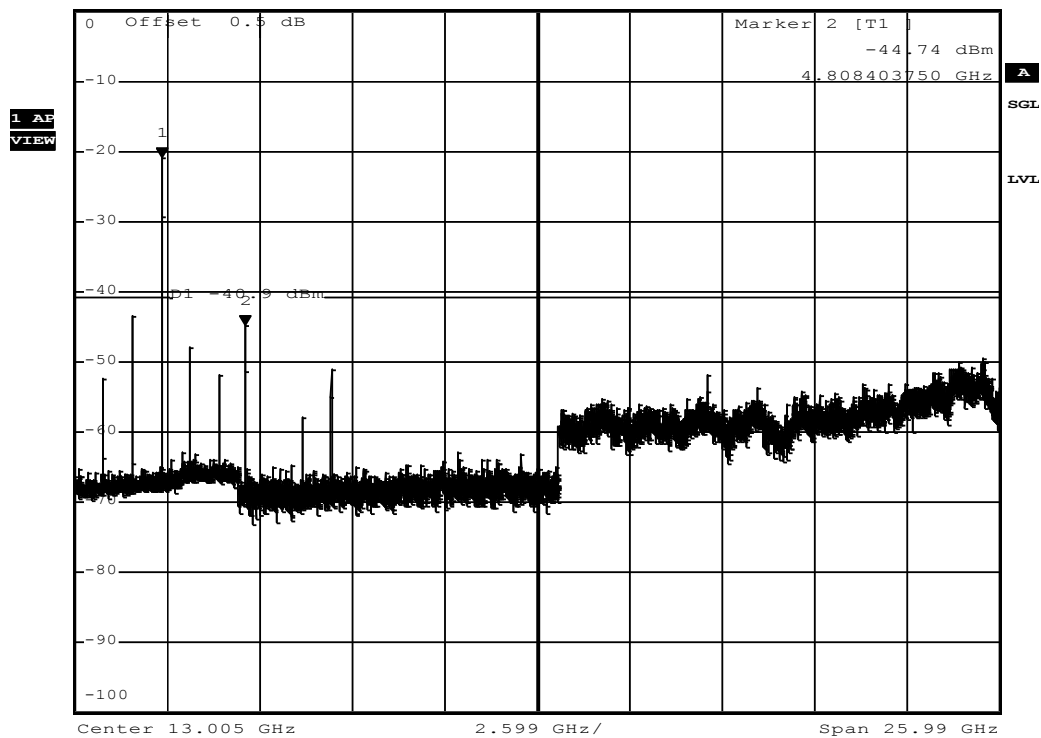
Date: 25.JUL.2012 13:25:45

Conducted spurious emissions – DSSS F_{MID}
**FCC part 15.247 (d)
Spurious Emissions**

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15.247 (d)
Comment 1	Spurious Emissions conducted
Comment 2	Channel : 2440 MHz
Comment 3	pass



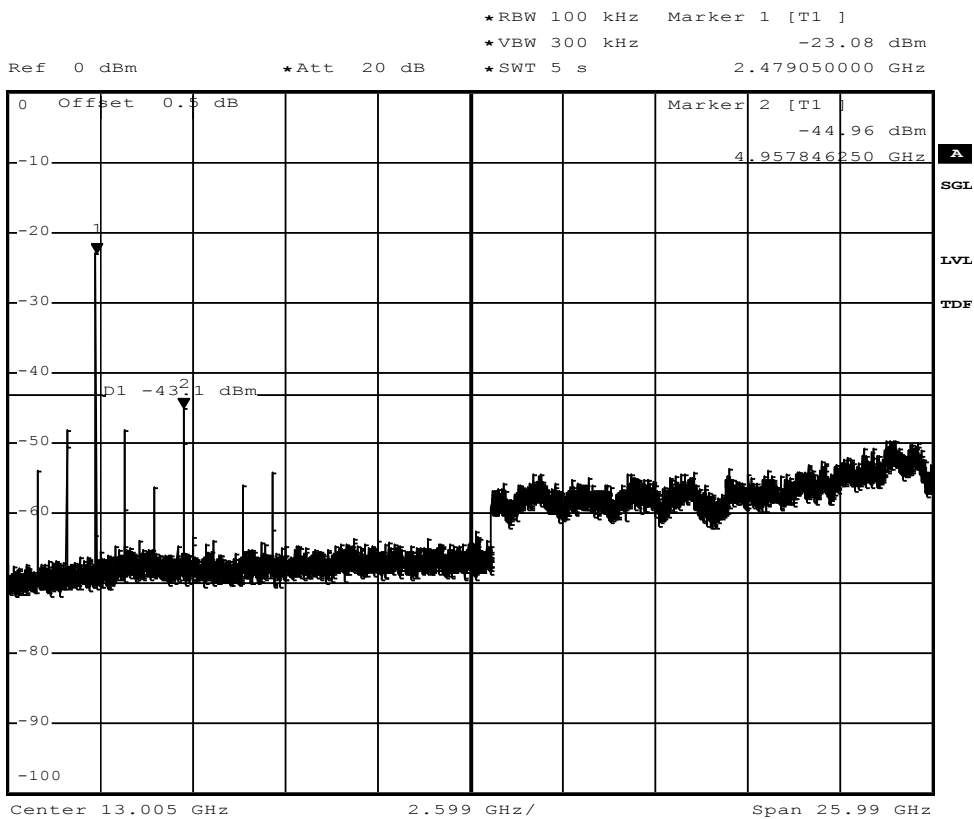
Ref 0 dBm *Att 20 dB *RBW 100 kHz Marker 1 [T1] -20.93 dBm
 *VBW 300 kHz 2.440065000 GHz
 *SWT 60 s



Date: 25.JUL.2012 13:28:08

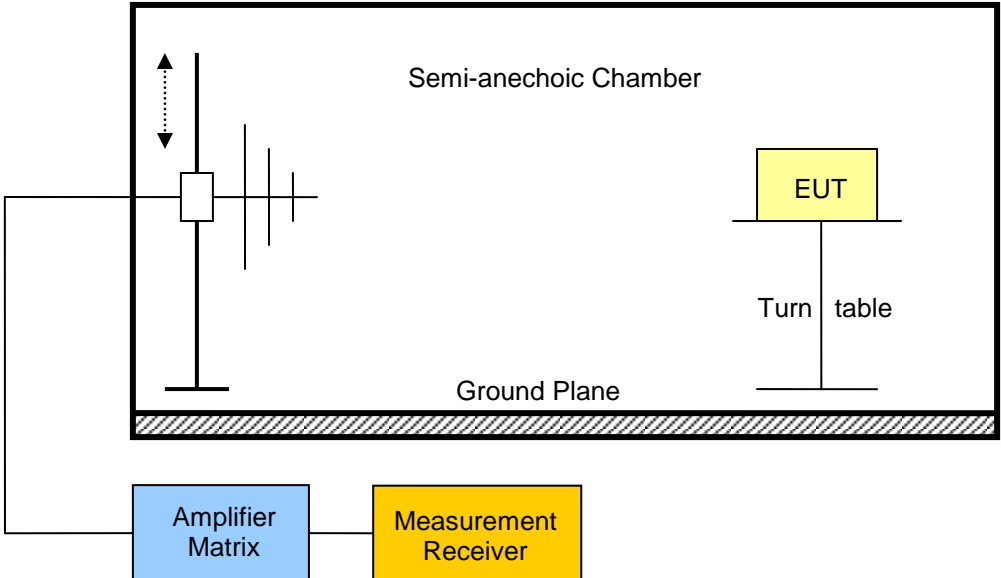
Conducted spurious emissions – DSSS F_{HIGH}
**FCC part 15.247 (d)
Spurious Emissions**

EUT	Radio Control Transmitter for Model cars
Model	EX-1 AFS
Approval Holder	Kondo Kagaku Co., Ltd. / Ord.: G0M-1206-2073
Temperature / Voltage	25°C, Vnom
Test Site / Operator	Eurofins Product Service GmbH, Mr. Treffke
Test Specification	FCC part 15.247 (d)
Comment 1	Spurious Emissions conducted
Comment 2	Channel : 2480 MHz
Comment 3	pass



Date: 25.JUL.2012 13:39:00

3.7 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. FCC 47 CFR 15.247 / IC RSS-210				Verdict: PASS	
Test according referenced standards		Reference Method			
		FCC 15.247(d) / IC RSS-210 A8.5			
Test according to measurement reference		Reference Method			
		FCC KDB Publication No. 558074 / ANSI C63.4			
Test frequency range		Tested frequencies			
		30 MHz – 10 th Harmonic			
Limits					
Frequency range [MHz]	Detector	Limit [μ V/m]	Limit [dB μ V/m]	Limit Distance [m]	
30 – 88	Quasi-Peak	100	40	3	
88 – 216	Quasi-Peak	150	43.5	3	
216 – 960	Quasi-Peak	200	46	3	
960 – 1000	Quasi-Peak	500	54	3	
> 1000	Average	500	54	3	
<p>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)).</p> <p>When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.</p>					
Test setup					
 <p>The diagram illustrates the test setup within a Semi-anechoic Chamber. A Ground Plane is located at the bottom of the chamber. An Amplifier Matrix is connected to the chamber. A Measurement Receiver is connected to the Amplifier Matrix. The Equipment Under Test (EUT) is placed on a Turn table inside the chamber. A vertical antenna is positioned to the left of the chamber, with a dashed arrow indicating its height. The chamber is labeled 'Semi-anechoic Chamber'.</p>					

Test procedure

1. EUT set to test mode (Communication tester is used if needed)
2. Span it set according to measurement range
3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz
4. Markers are set to peak emission levels within restricted bands

Test results

Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [db μ V/m]	Det.	Pol.	Limit [db μ V/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2404	DSSS	4810	55.42	pk	ver	74	3	-18.58
F _{LOW}	2404	DSSS	4808	39.58	av	ver	54	3	-14.42
F _{MID}	2440	DSSS	4882	56.86	pk	hor	74	3	-17.14
F _{MID}	2440	DSSS	4880	41.56	av	hor	54	3	-12.44
F _{HIGH}	2480	DSSS	4962	58.66	pk	ver	74	3	-15.34
F _{HIGH}	2480	DSSS	4961	43.82	av	ver	54	3	-10.18

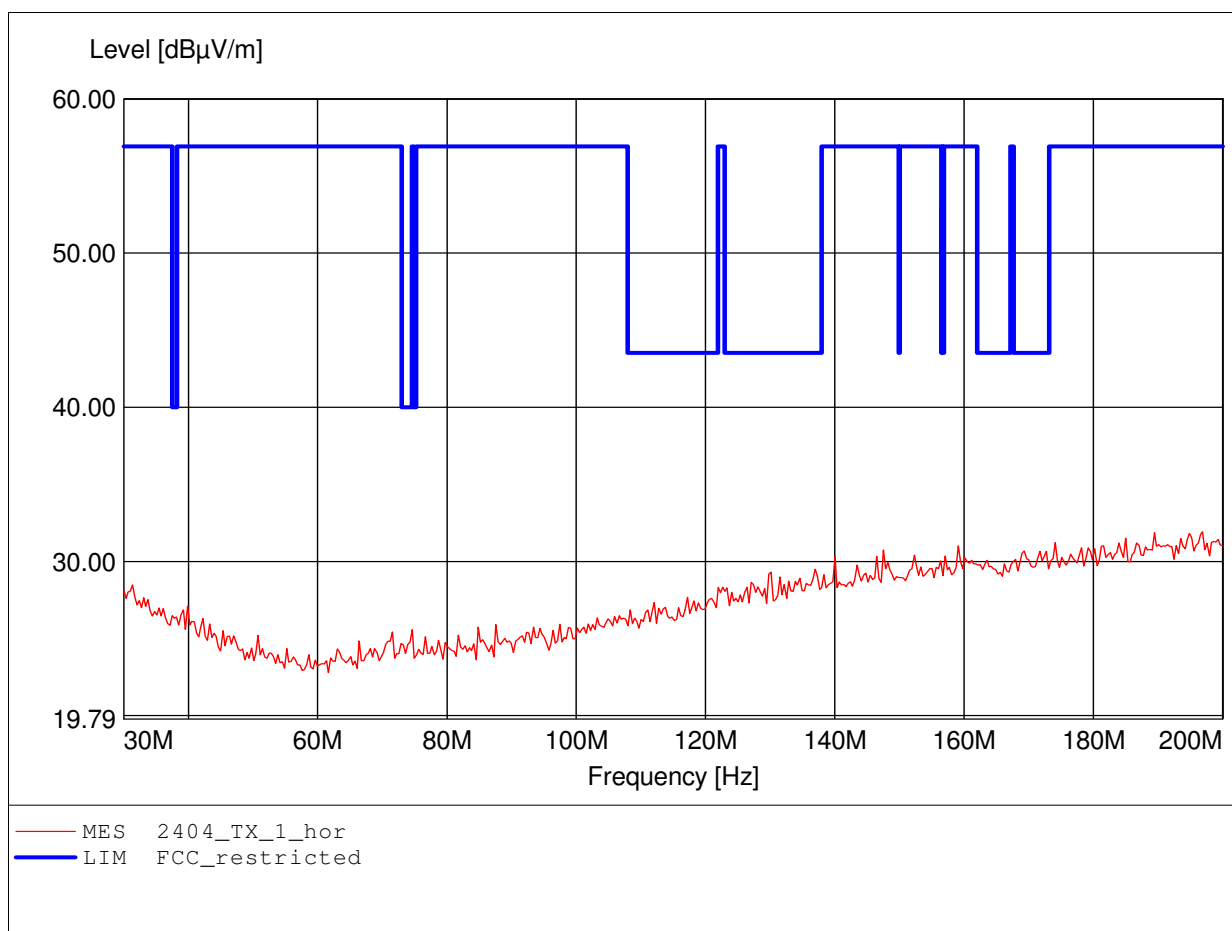
Comments: * Physical distance between EUT and measurement antenna.

ANNEX A Transmitter radiated spurious emissions

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

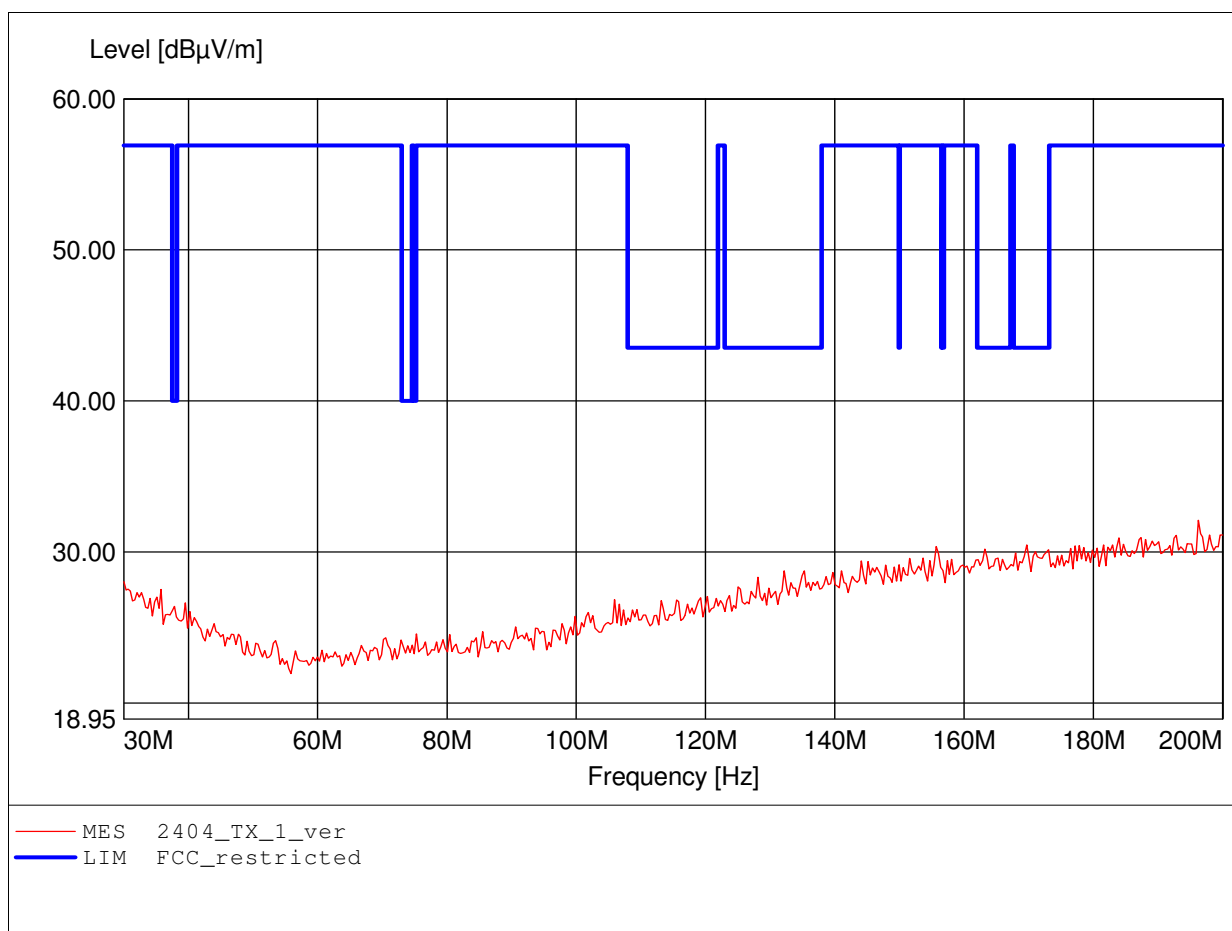
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 196.934MHz, Emax: 31.93dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

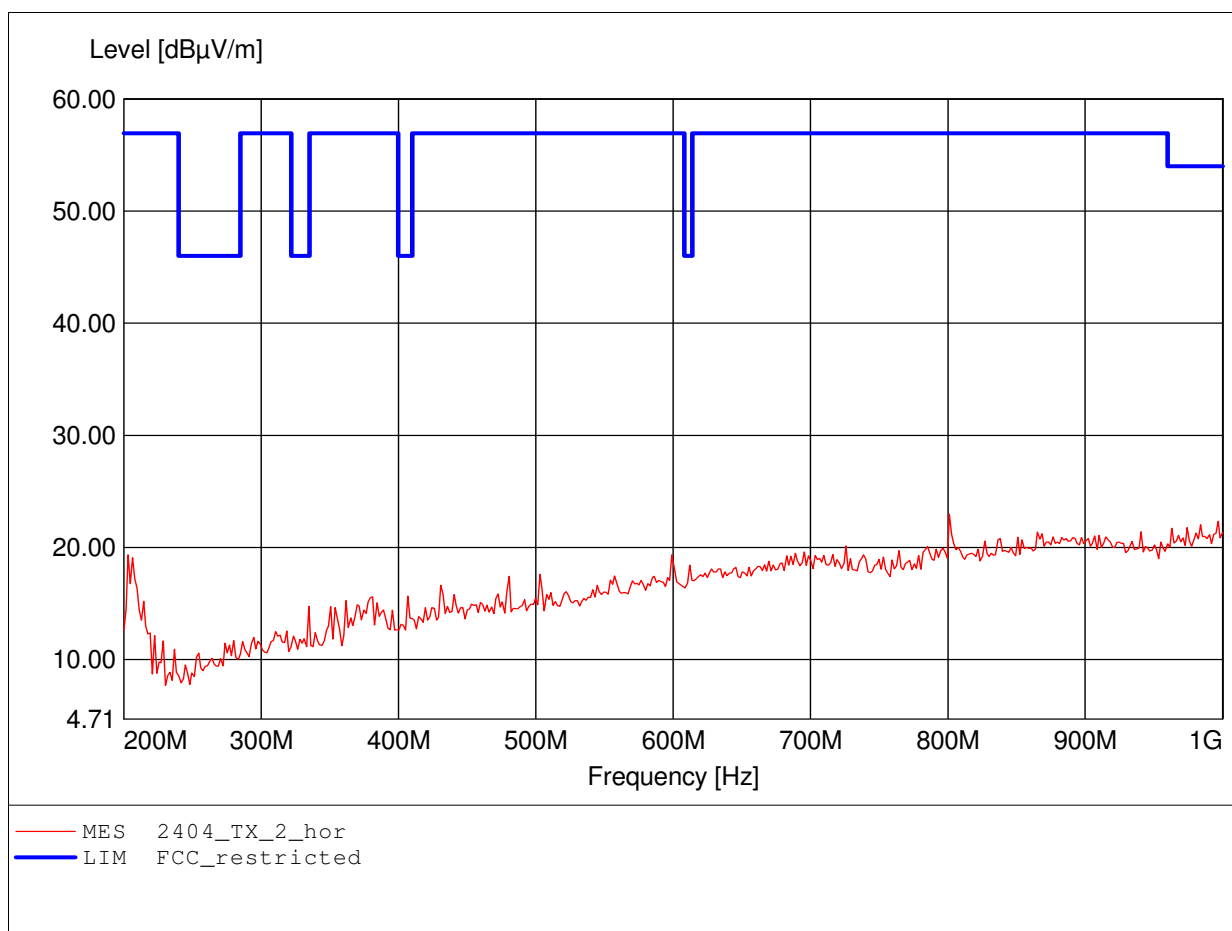
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 196.253MHz, Emax: 32.12dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

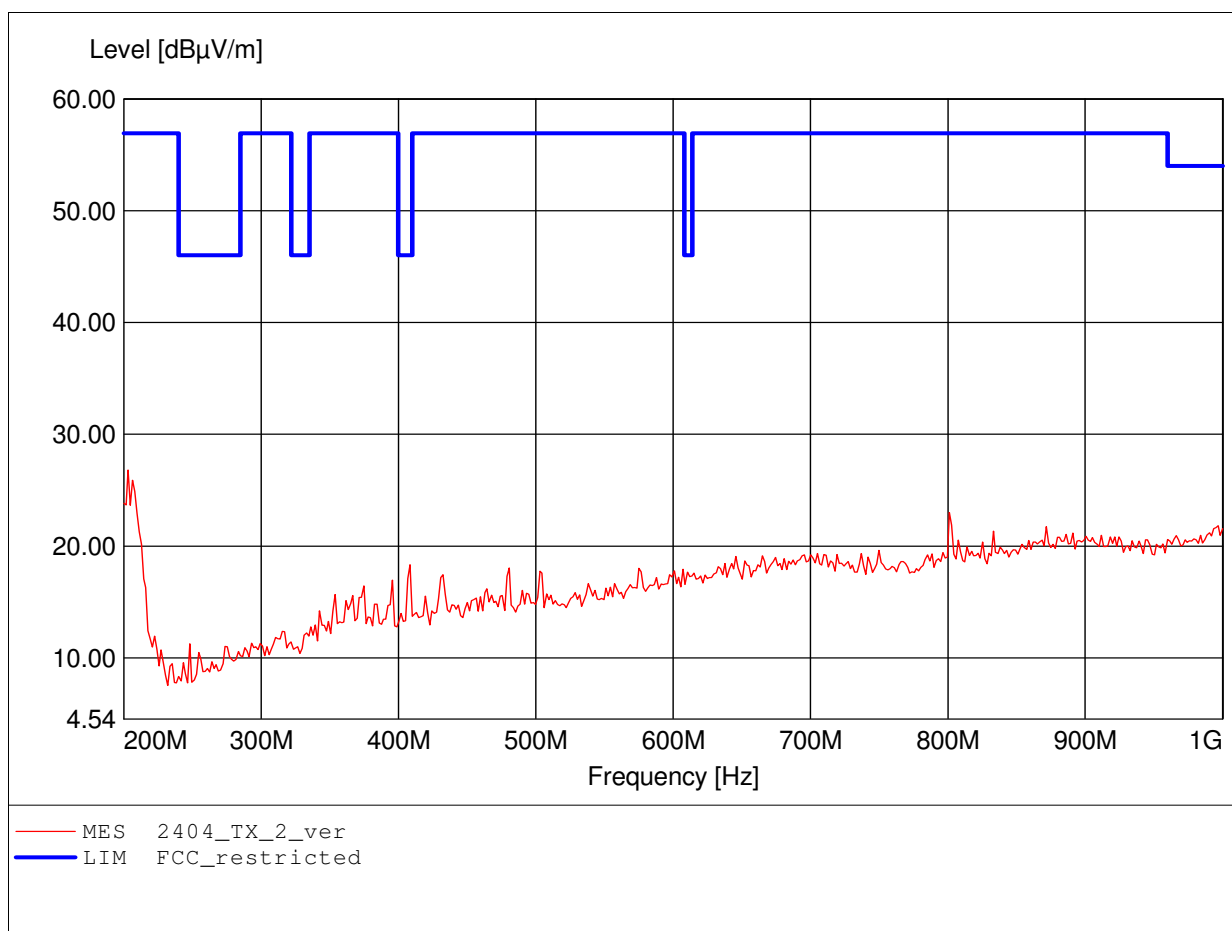
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 801.202MHz, Emax: 22.98dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

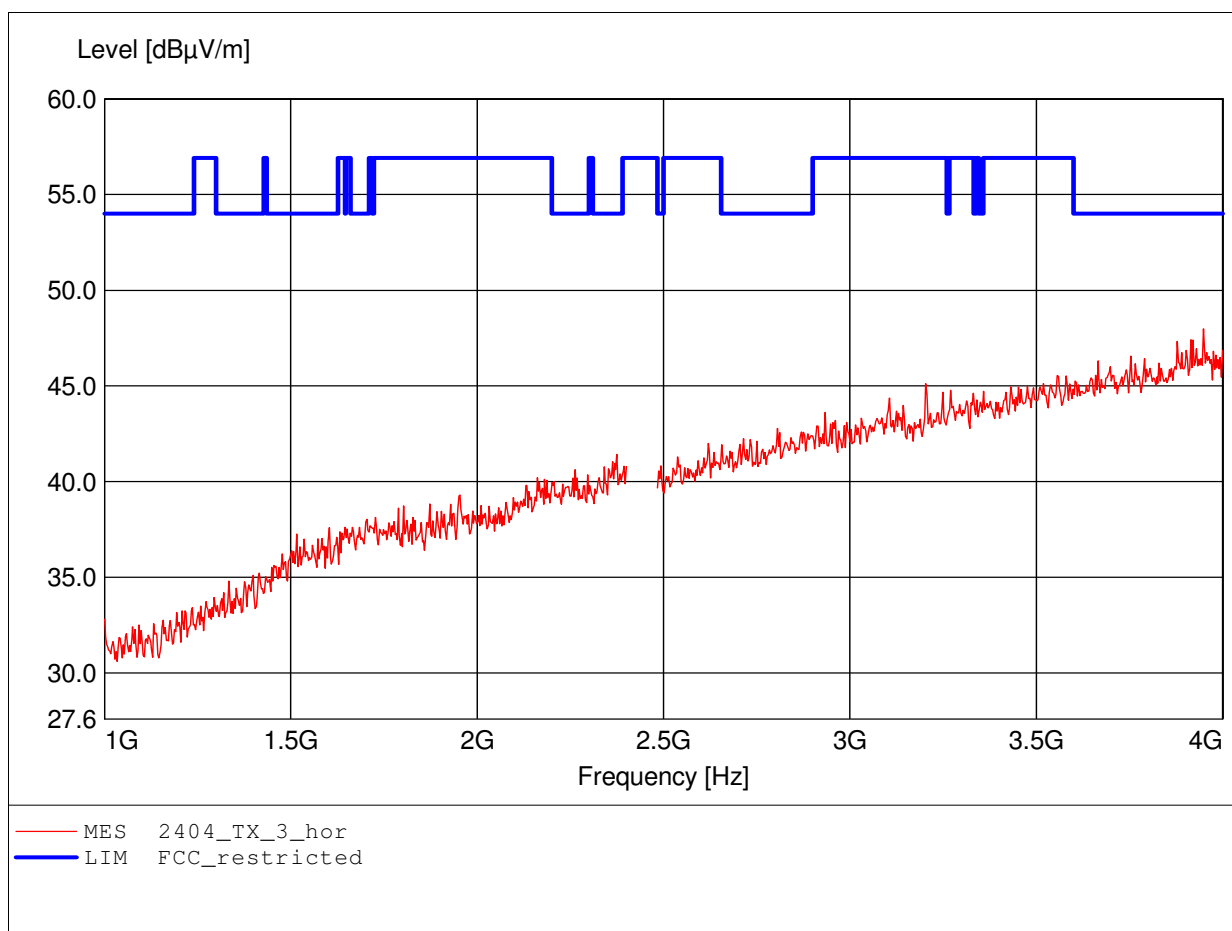
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 203.206MHz, Emax: 26.79dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

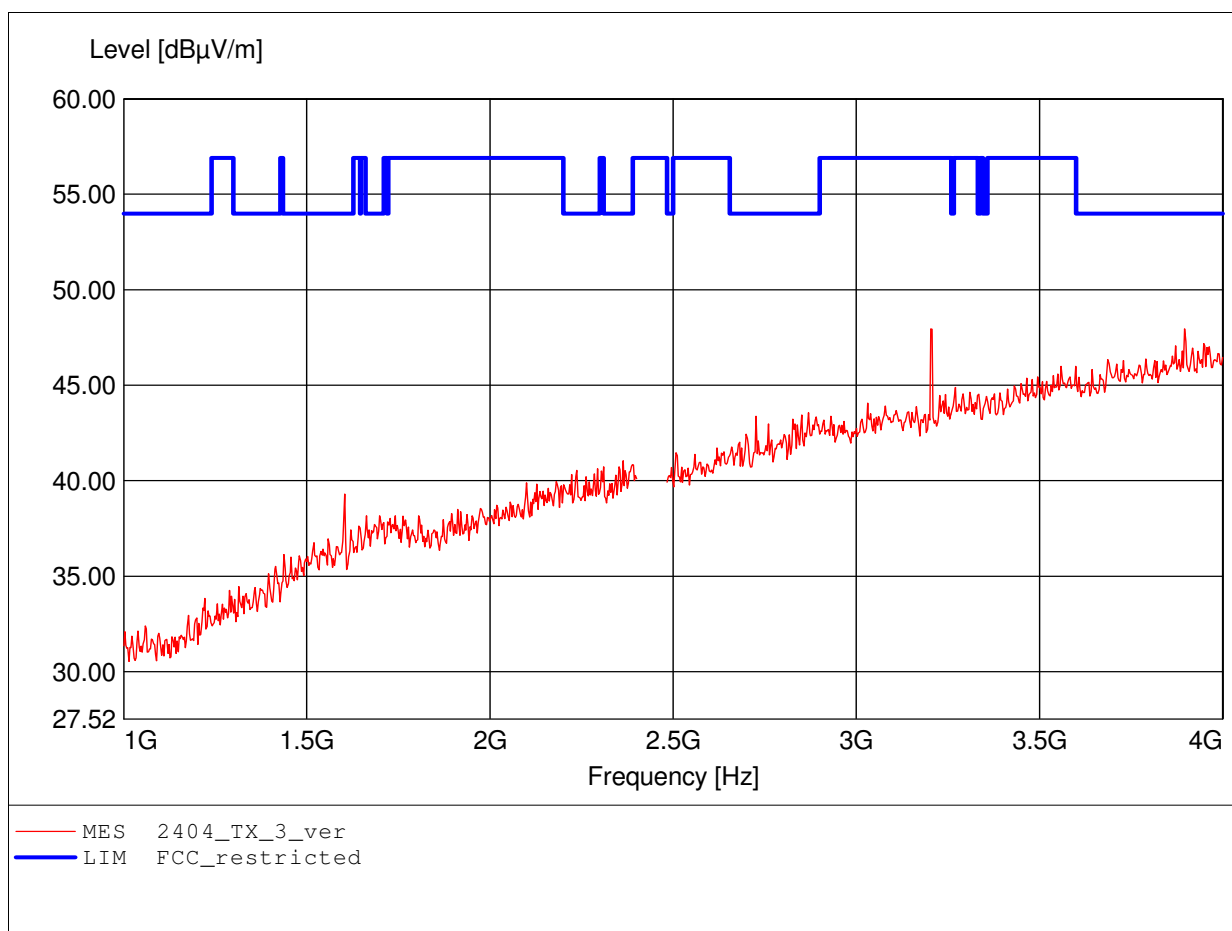
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EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.948GHz, Emax: 47.97dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

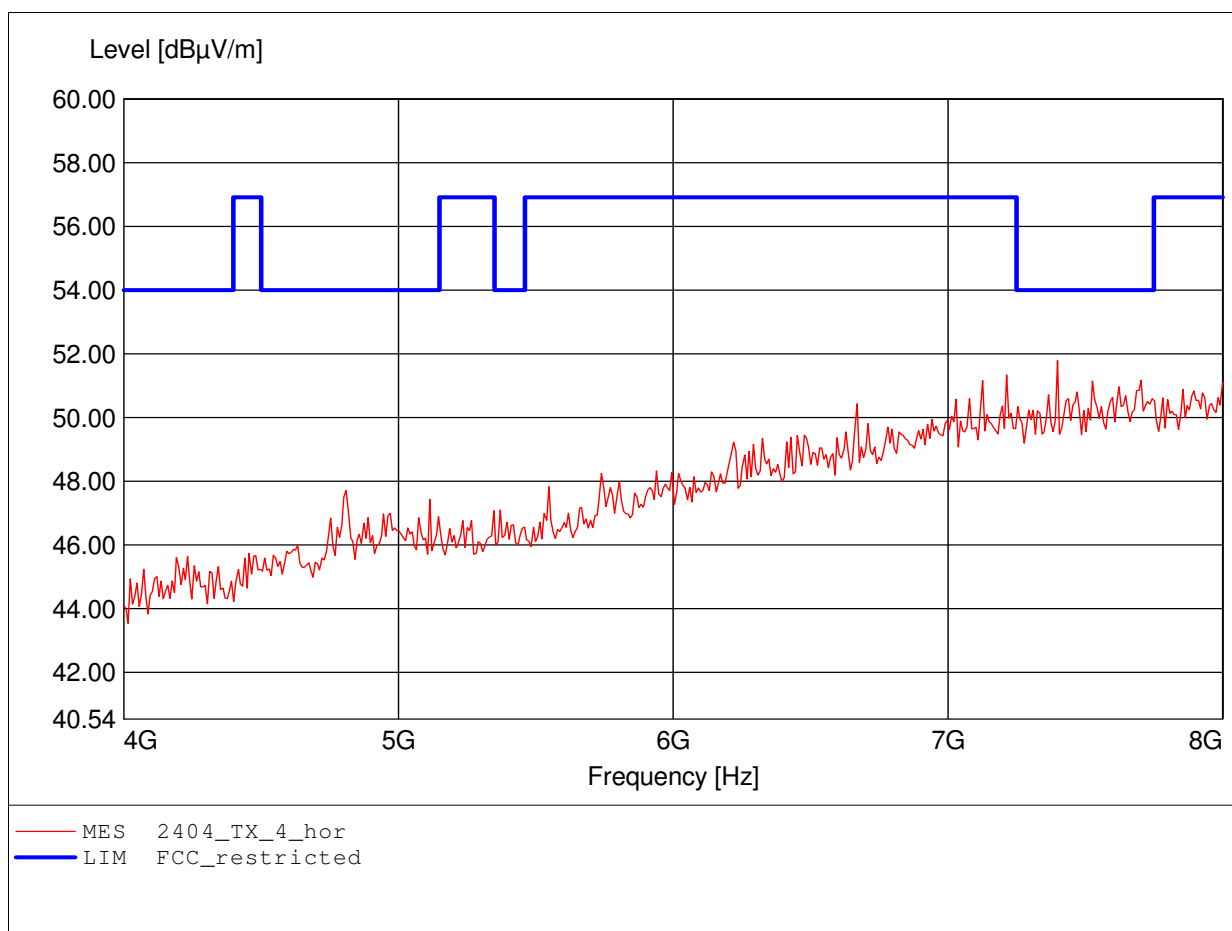
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.897GHz, Emax: 47.95dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

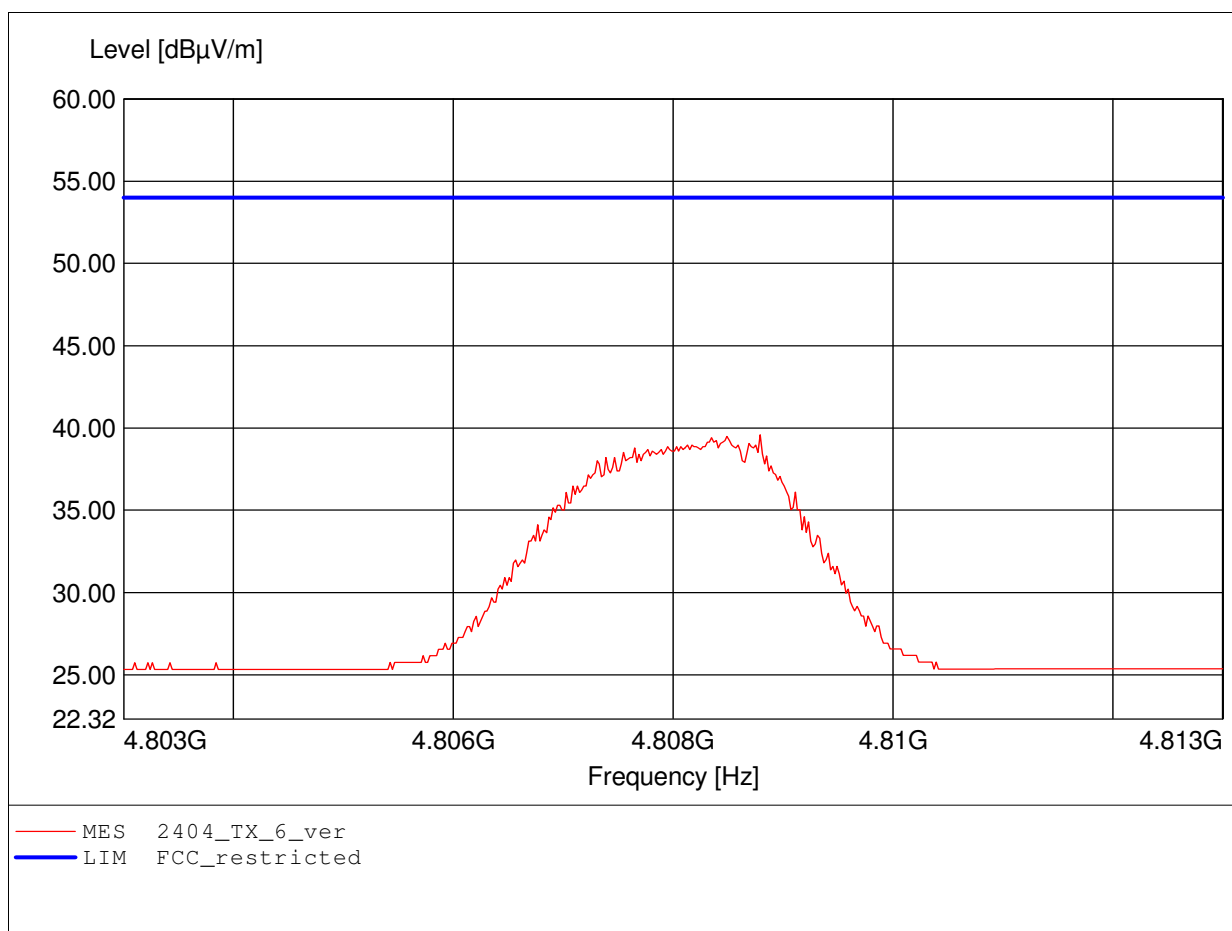
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 7.399GHz, Emax: 51.78dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

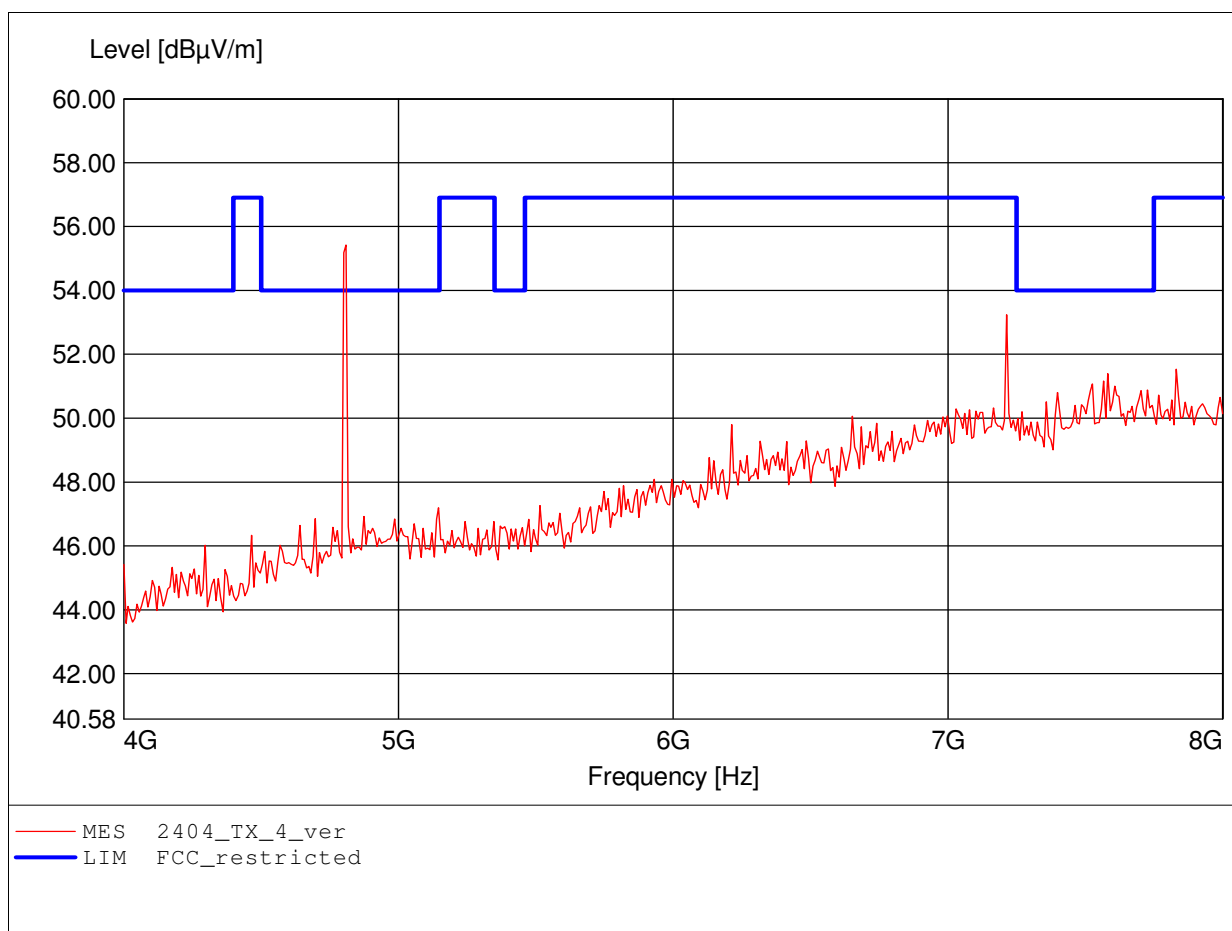
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.809GHz, Emax: 39.58dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

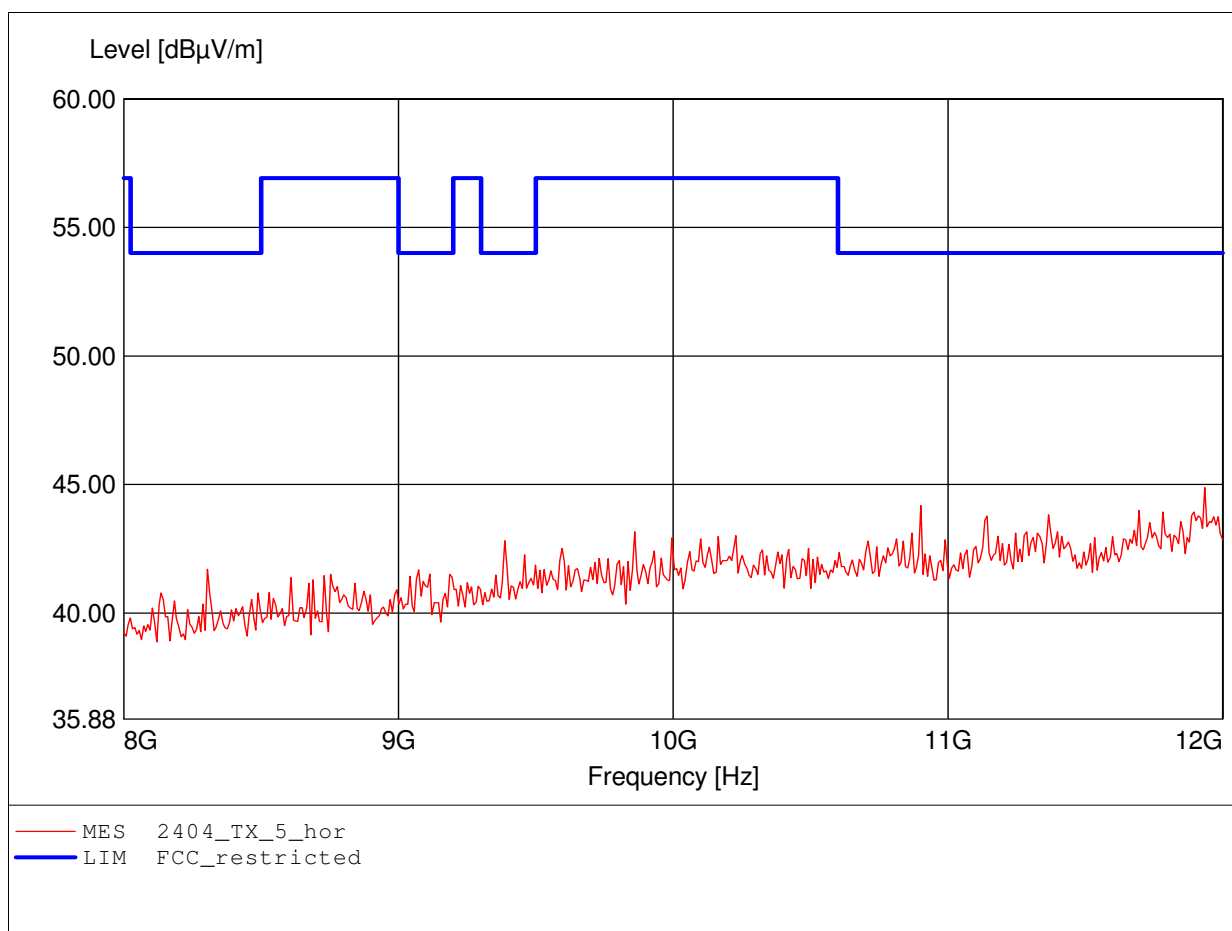
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 4.810GHz, Emax: 55.42dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

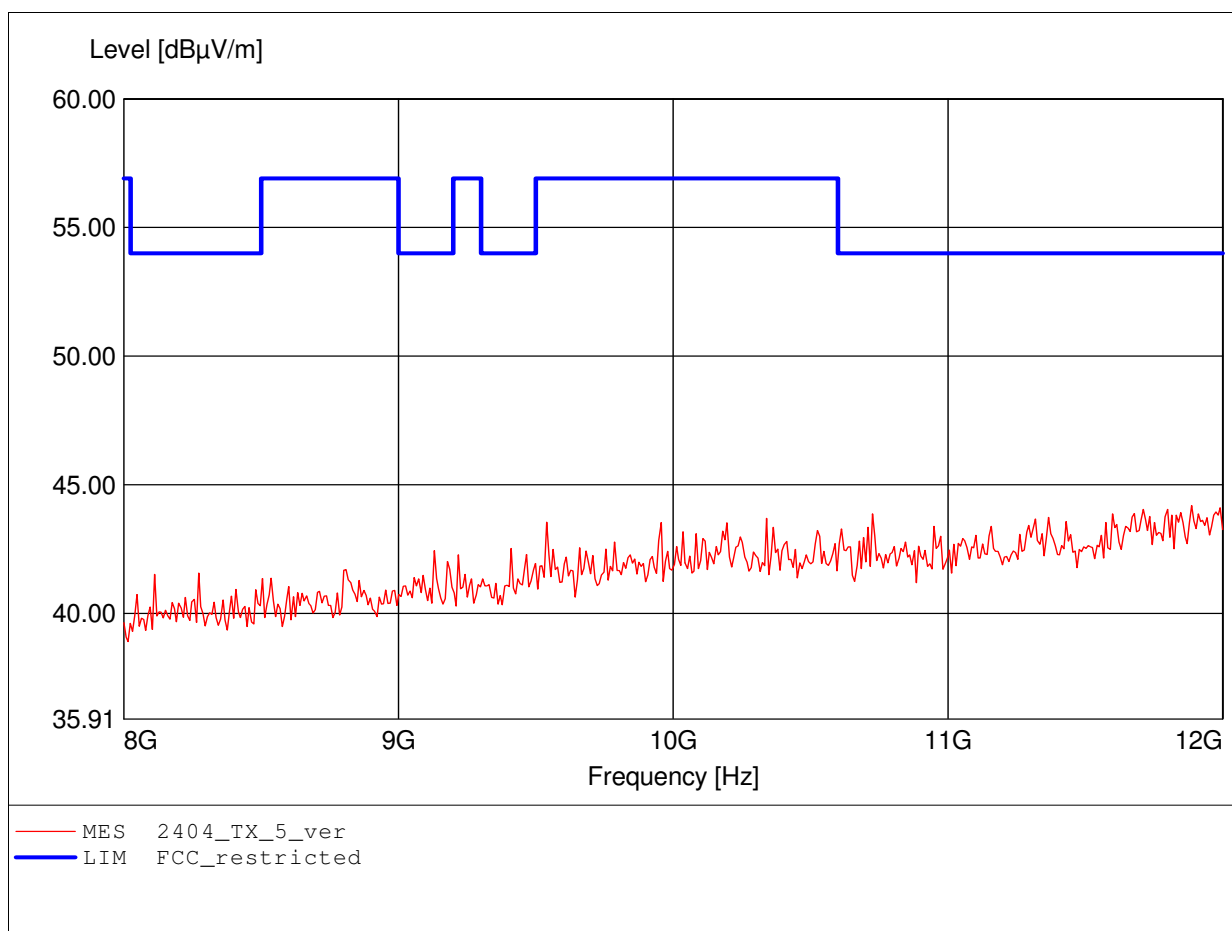
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.936GHz, Emax: 44.88dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

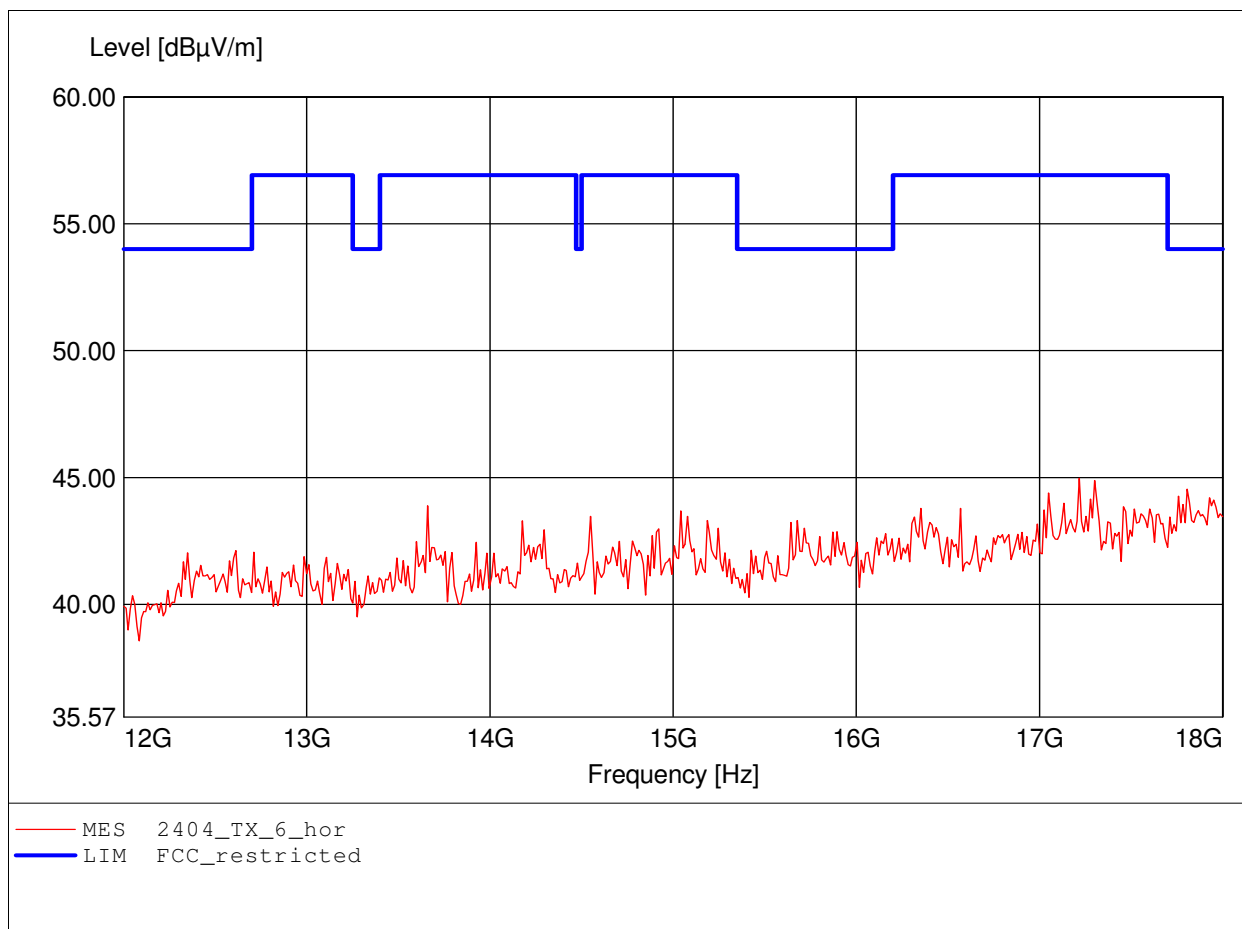
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.888GHz, Emax: 44.20dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

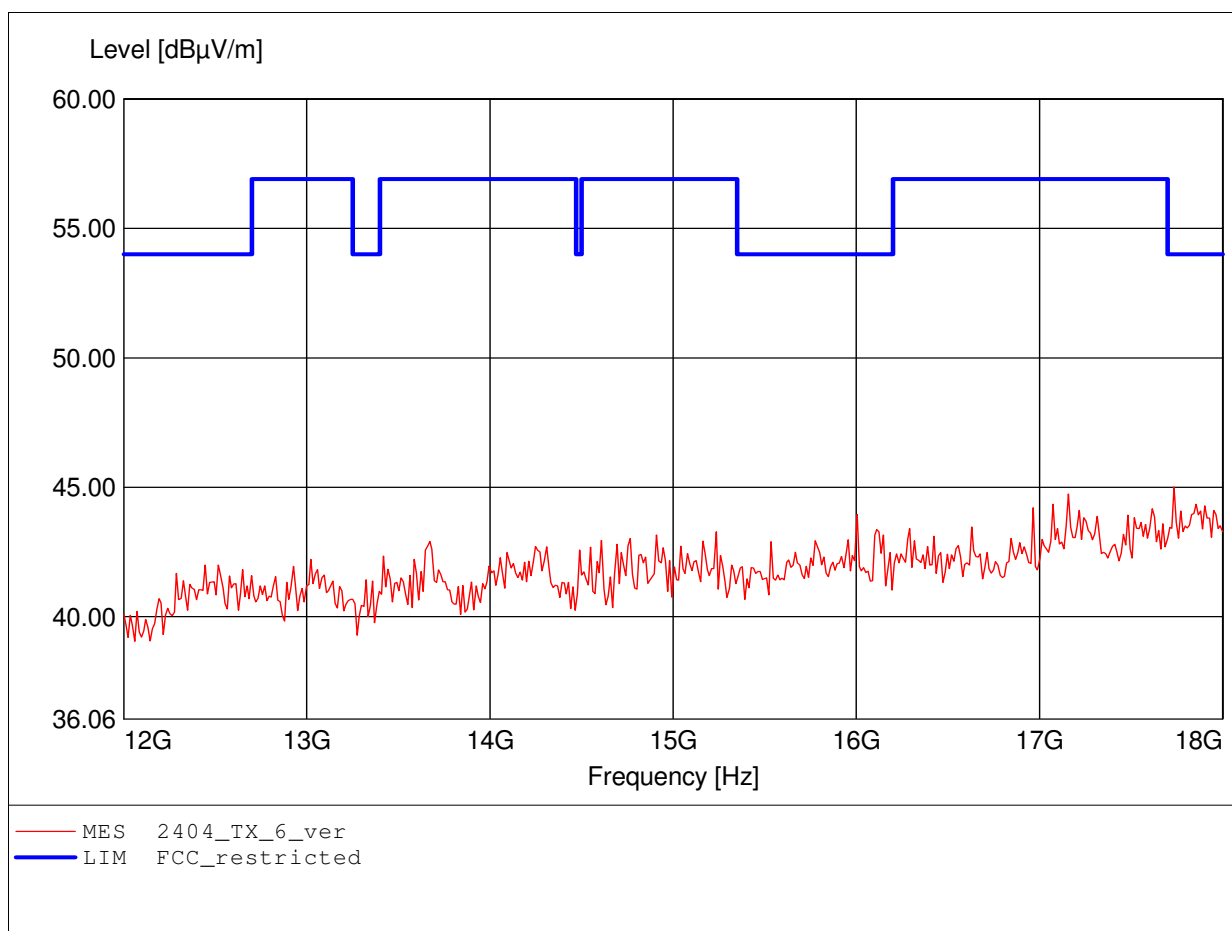
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 17.218GHz, Emax: 44.98dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

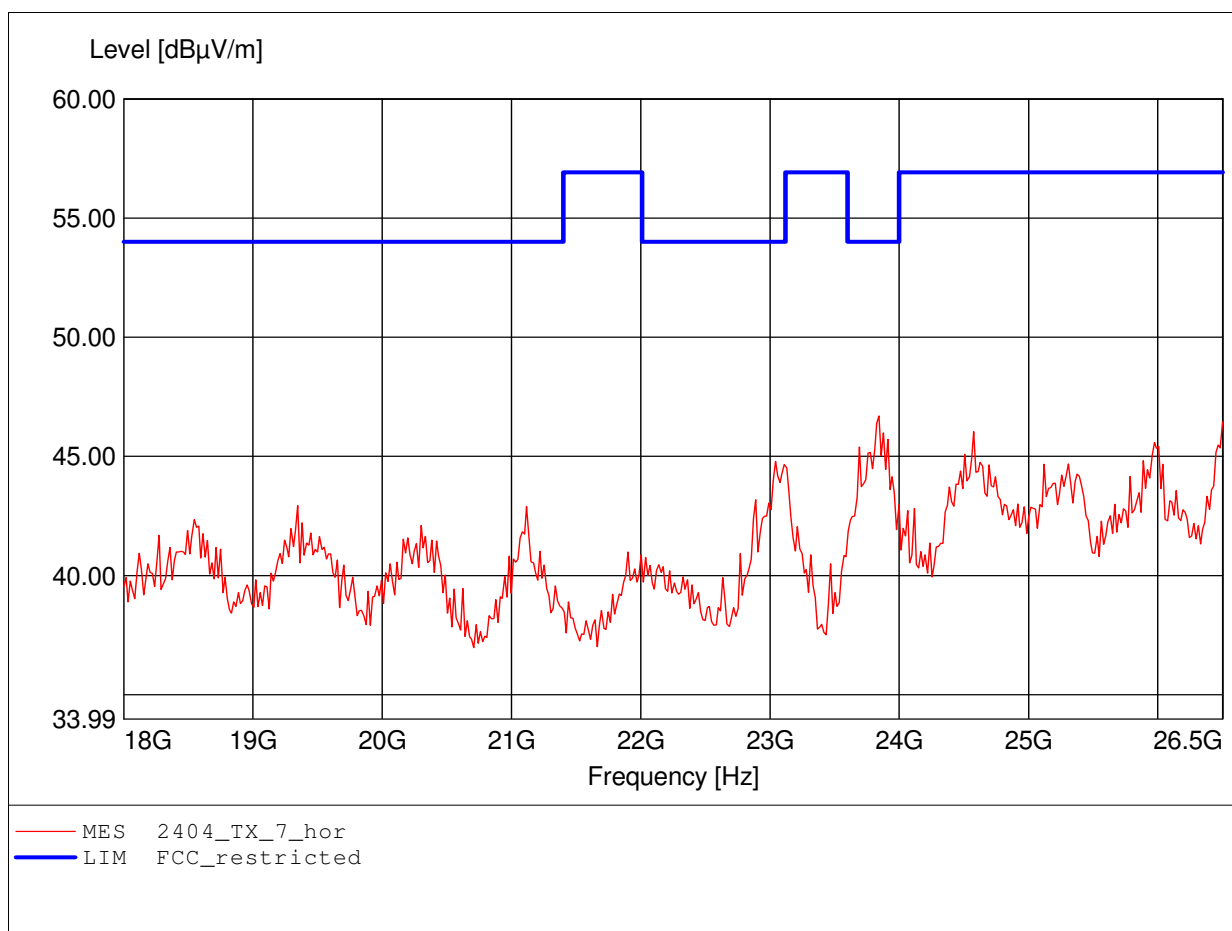
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 17.735GHz, Emax: 45.02dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

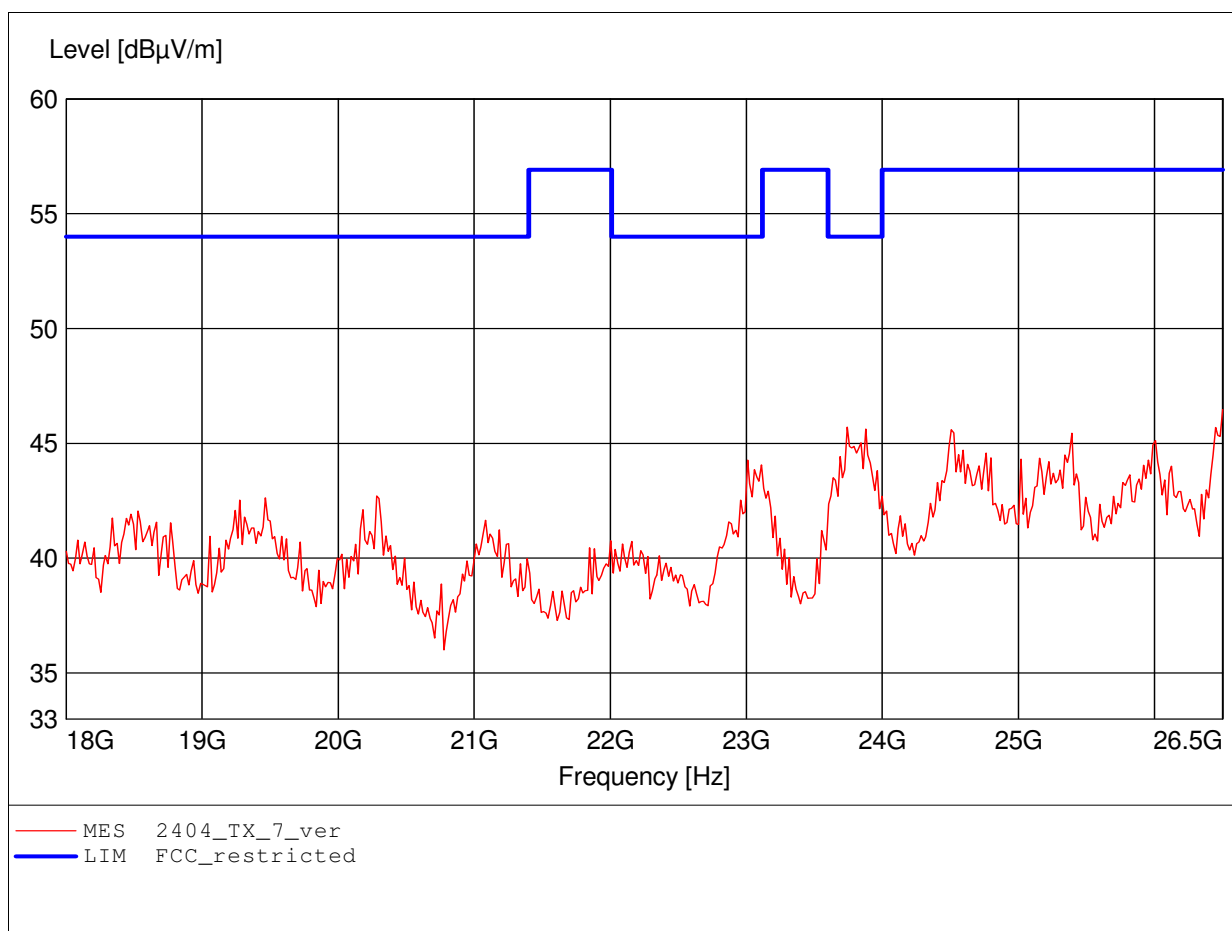
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 23.843GHz, Emax: 46.71dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

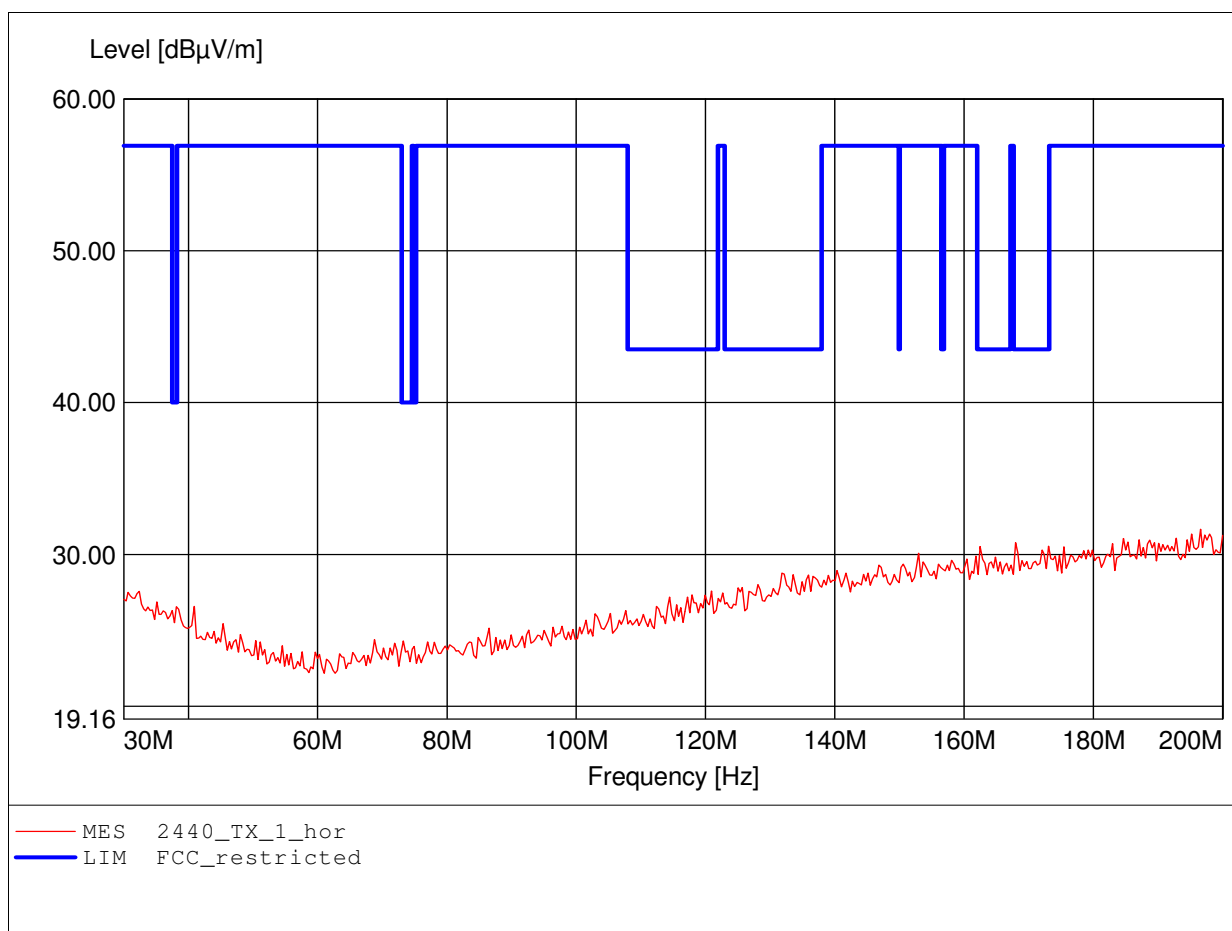
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Low / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2404
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.500GHz, Emax: 46.47dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

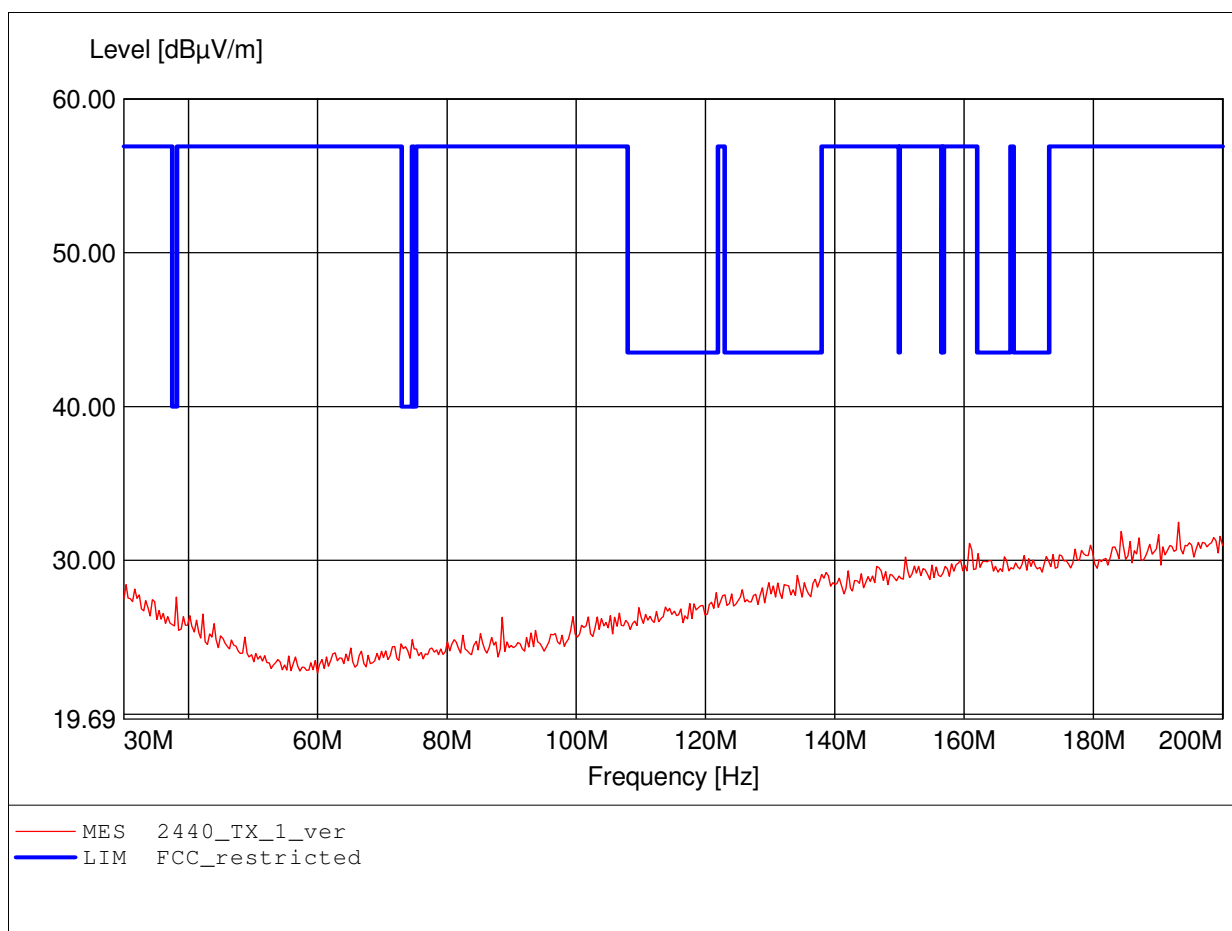
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 196.593MHz, Emax: 31.65dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

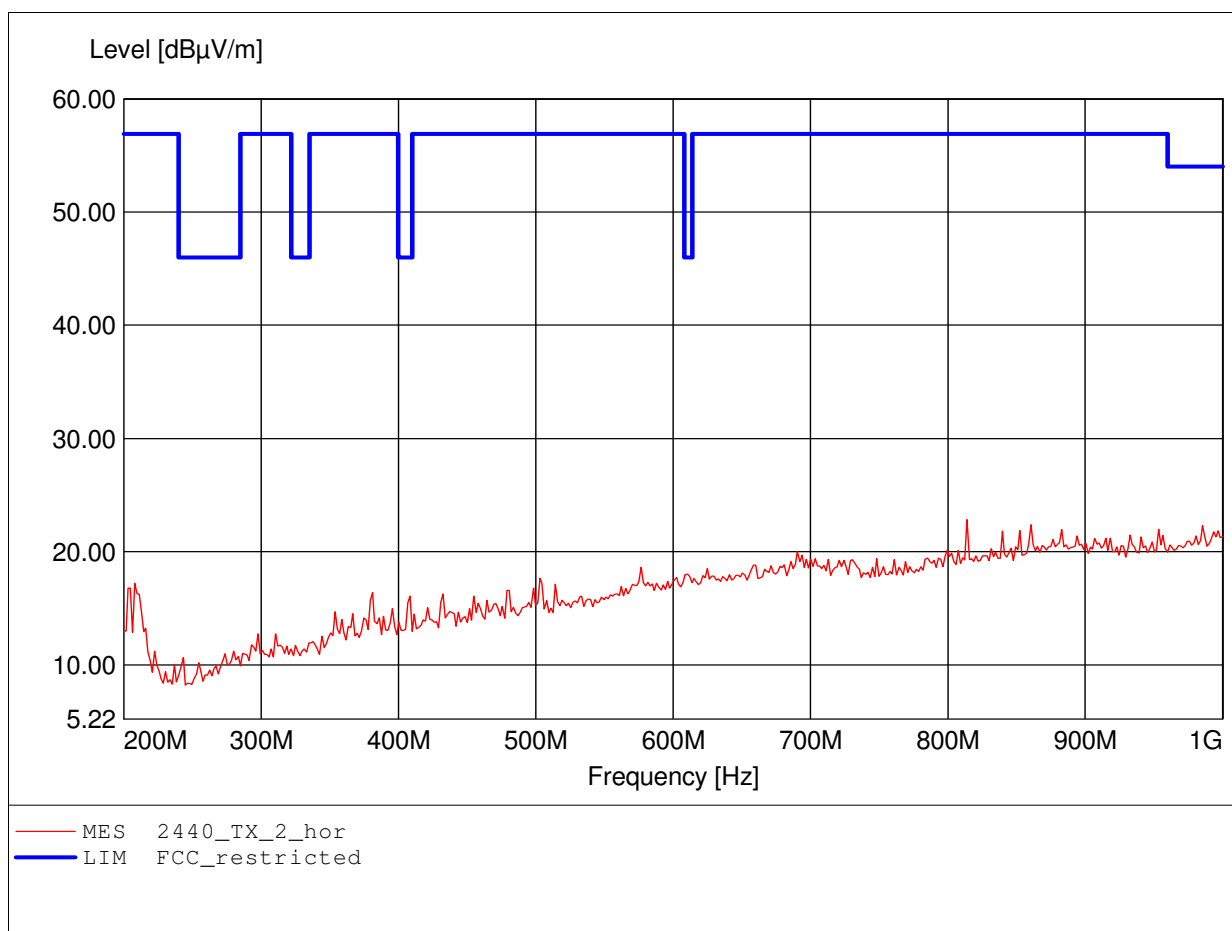
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 193.186MHz, Emax: 32.48dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

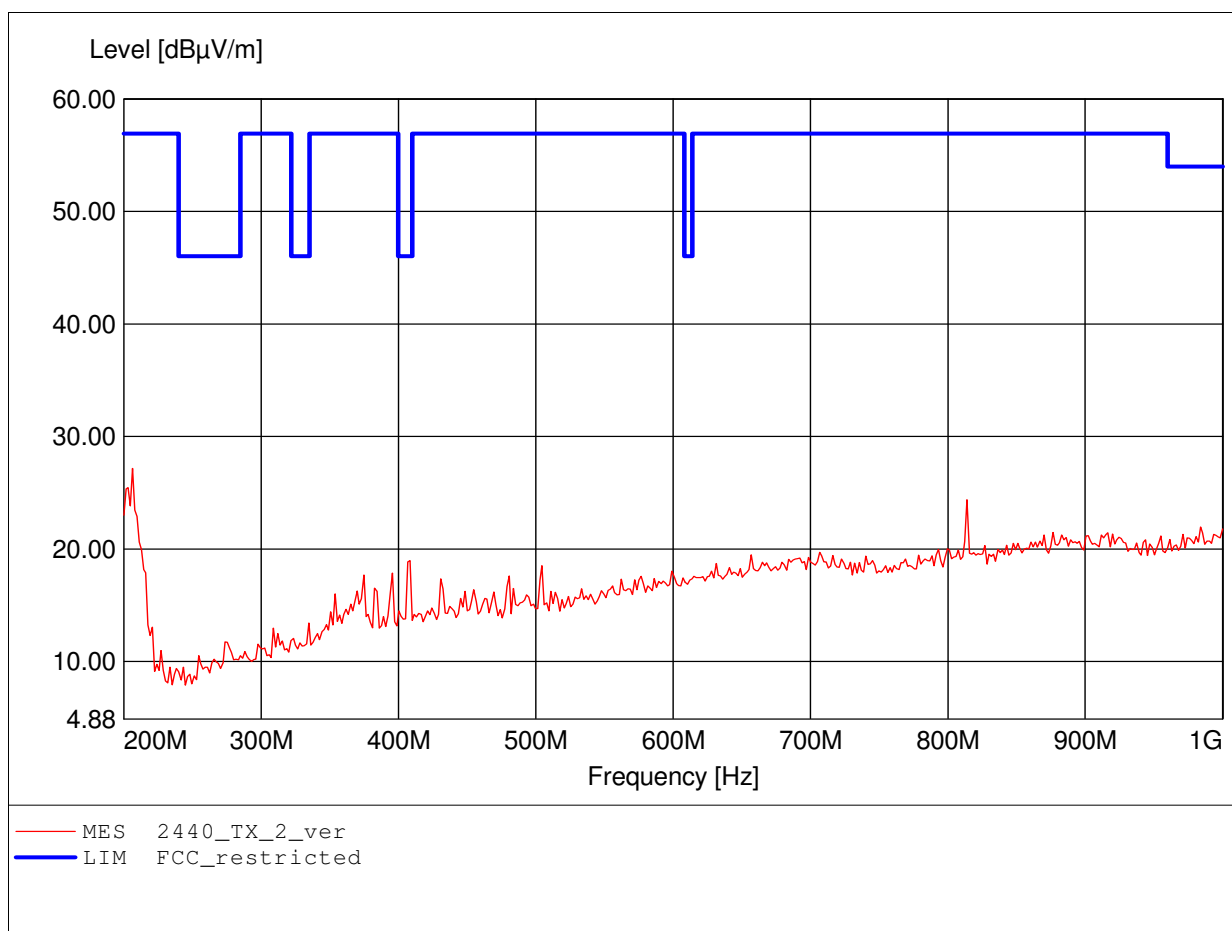
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 814.028MHz, Emax: 22.83dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

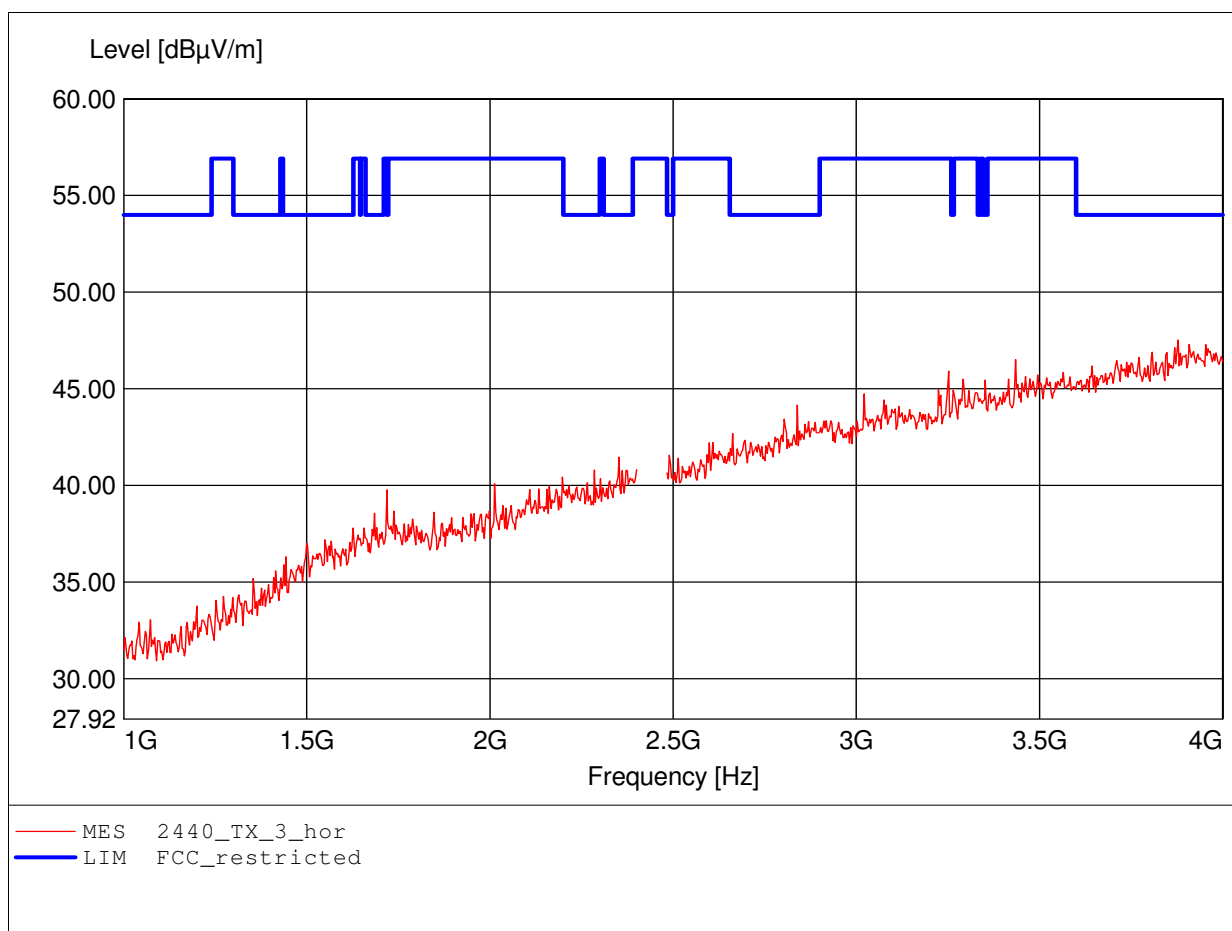
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 206.413MHz, Emax: 27.15dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

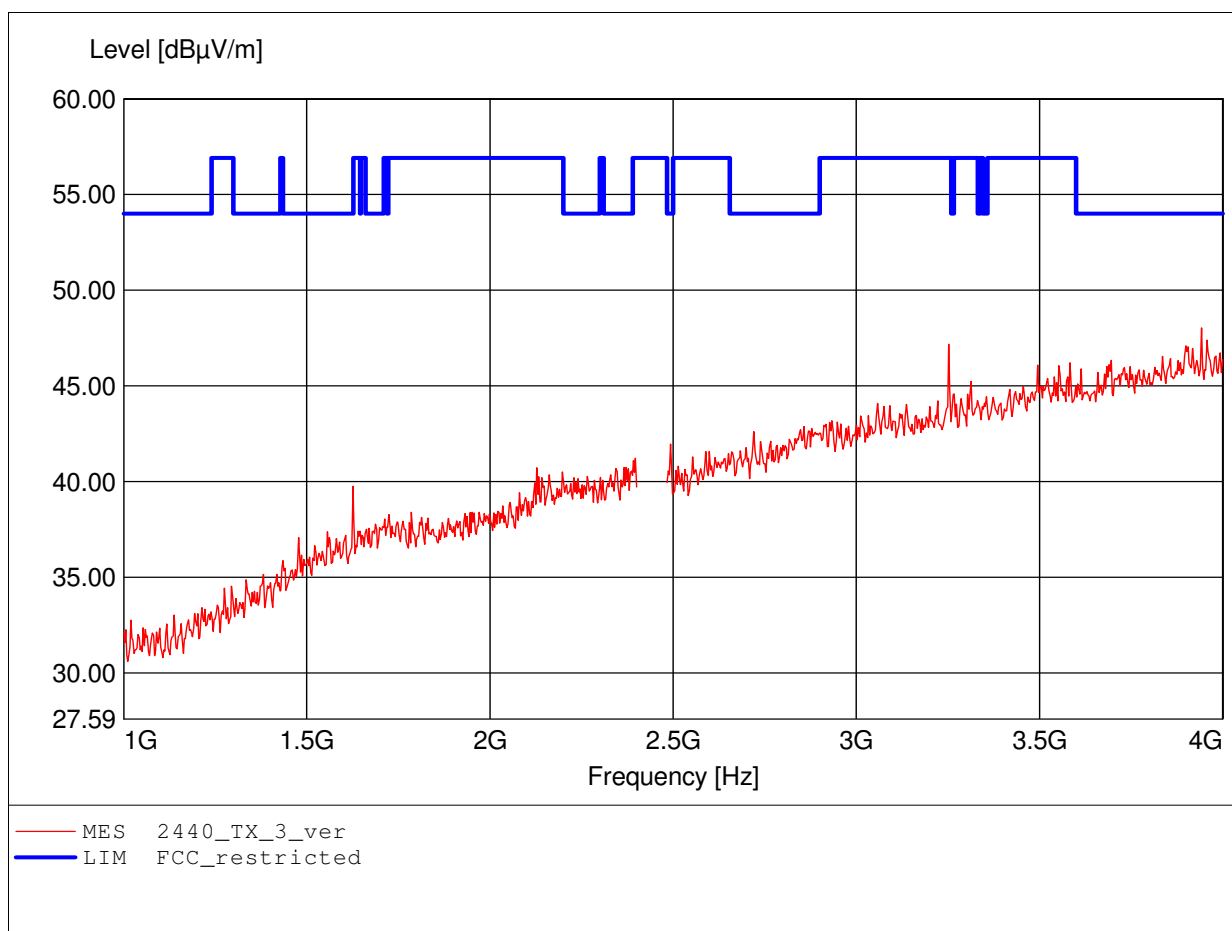
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.878GHz, Emax: 47.52dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

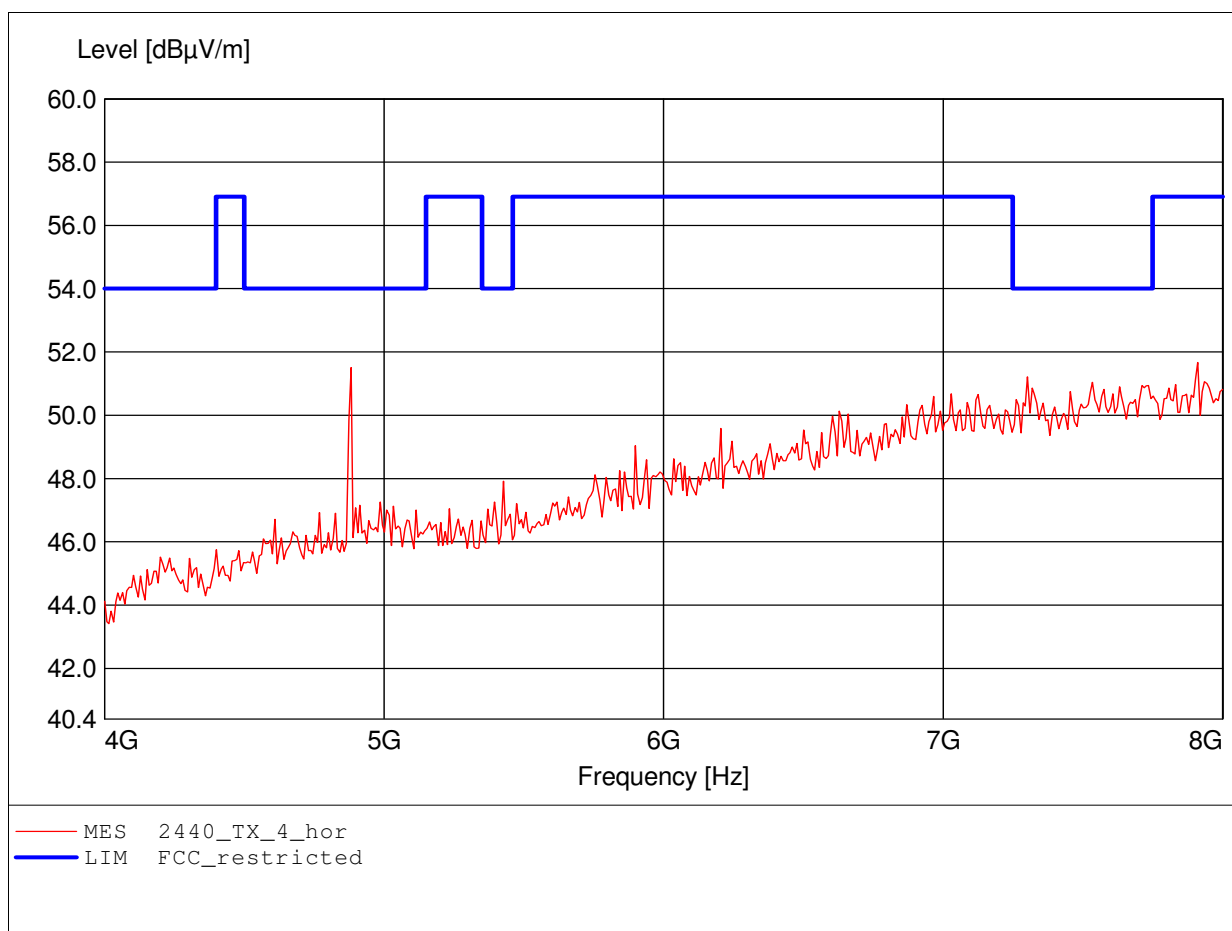
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.942GHz, Emax: 48.02dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

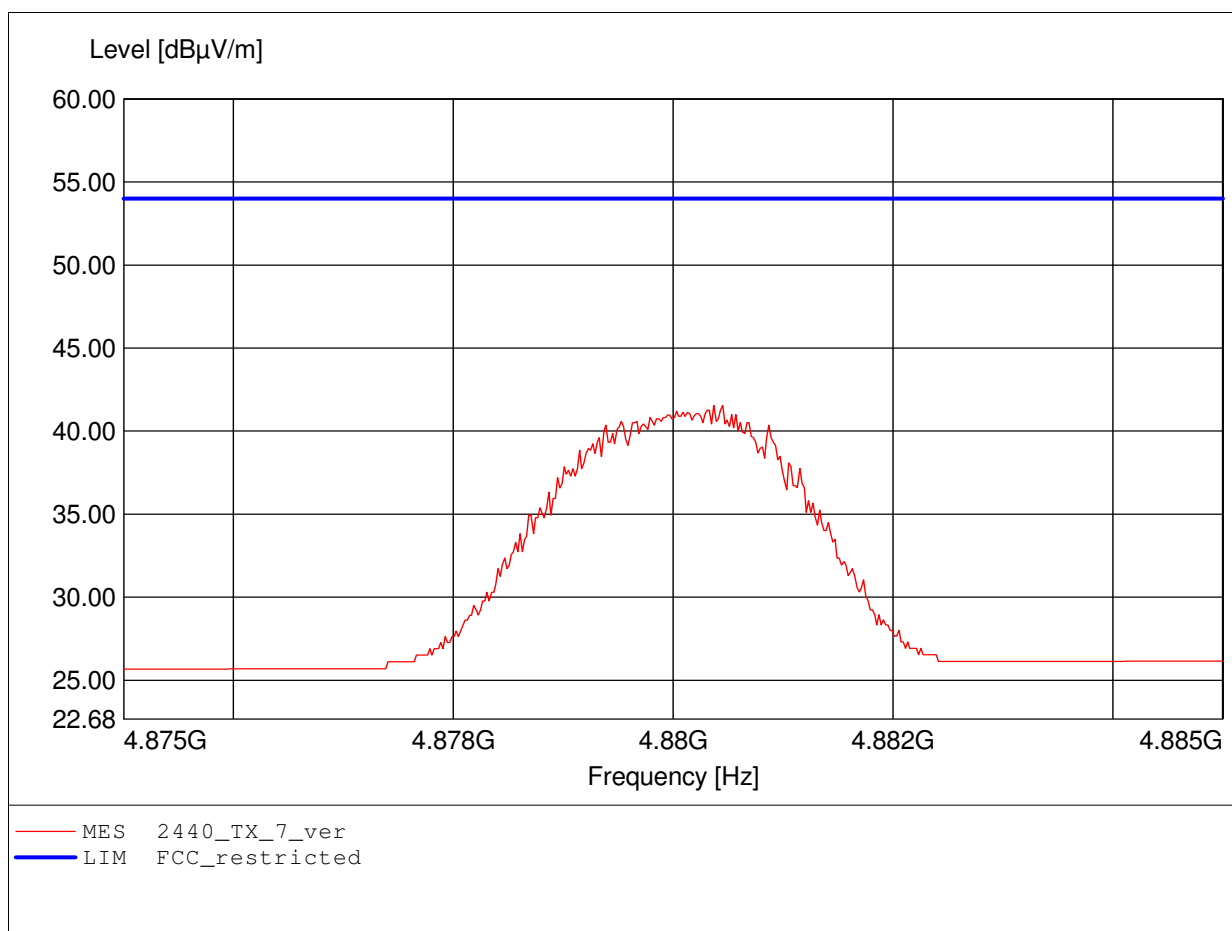
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 7.912GHz, Emax: 51.67dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

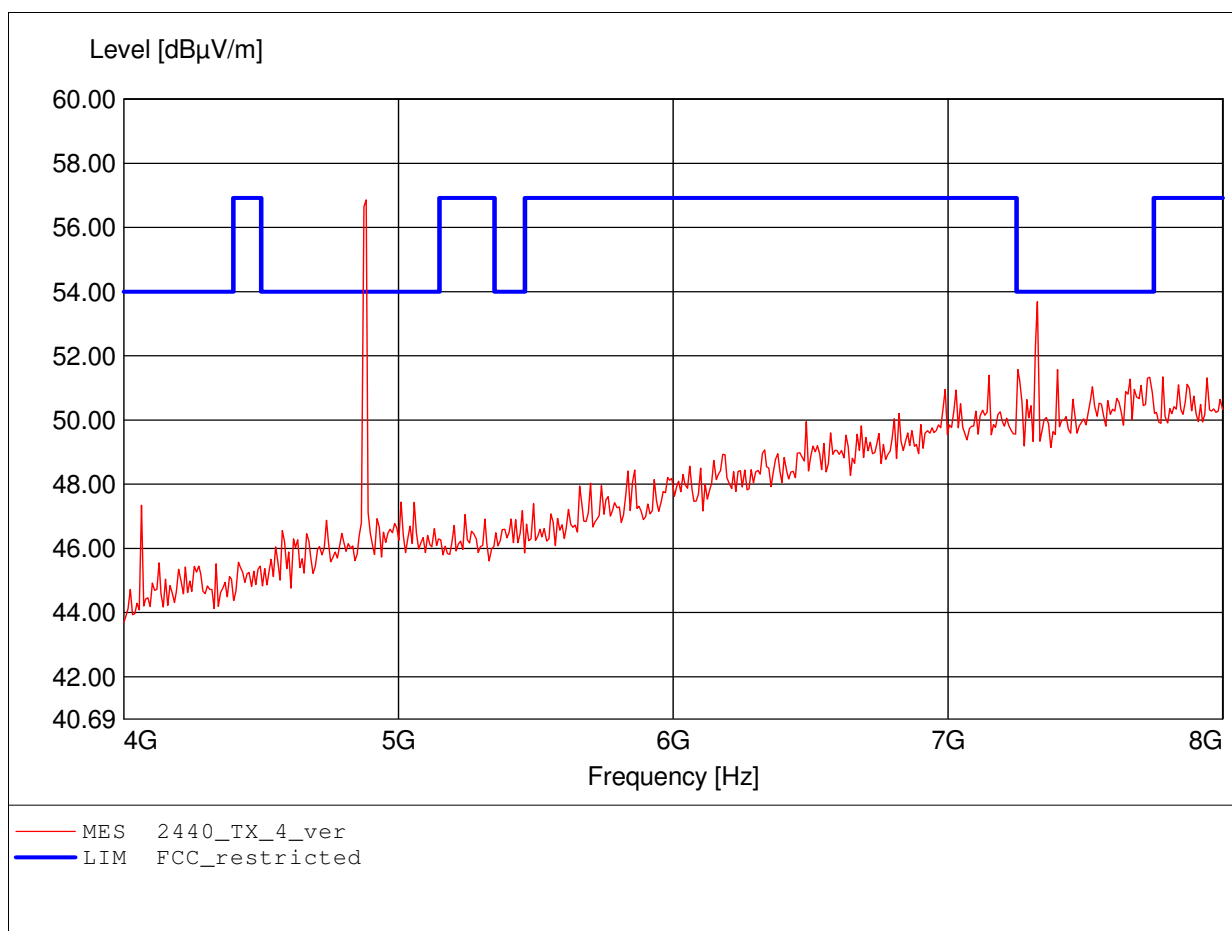
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 4.880GHz, Emax: 41.56dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

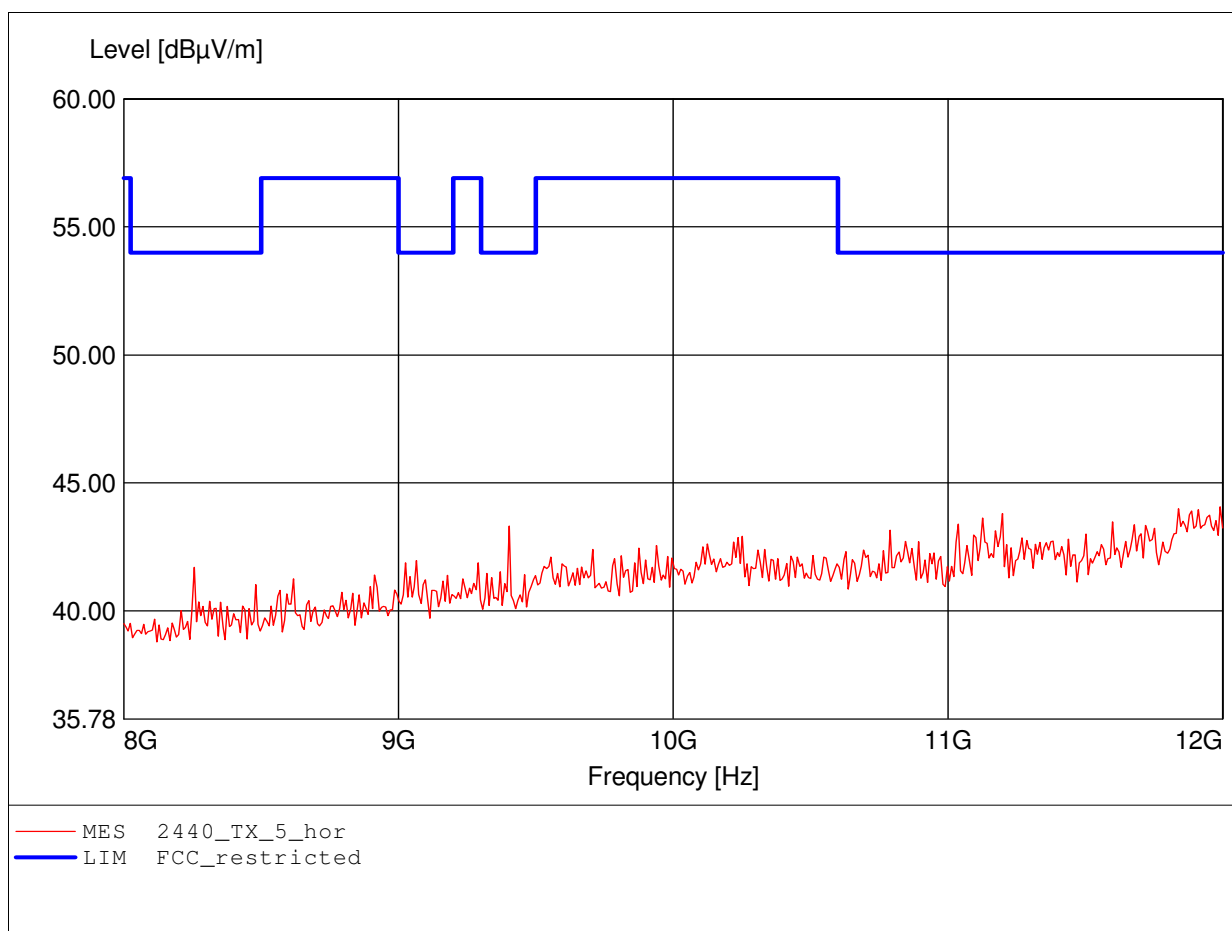
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 56.86dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

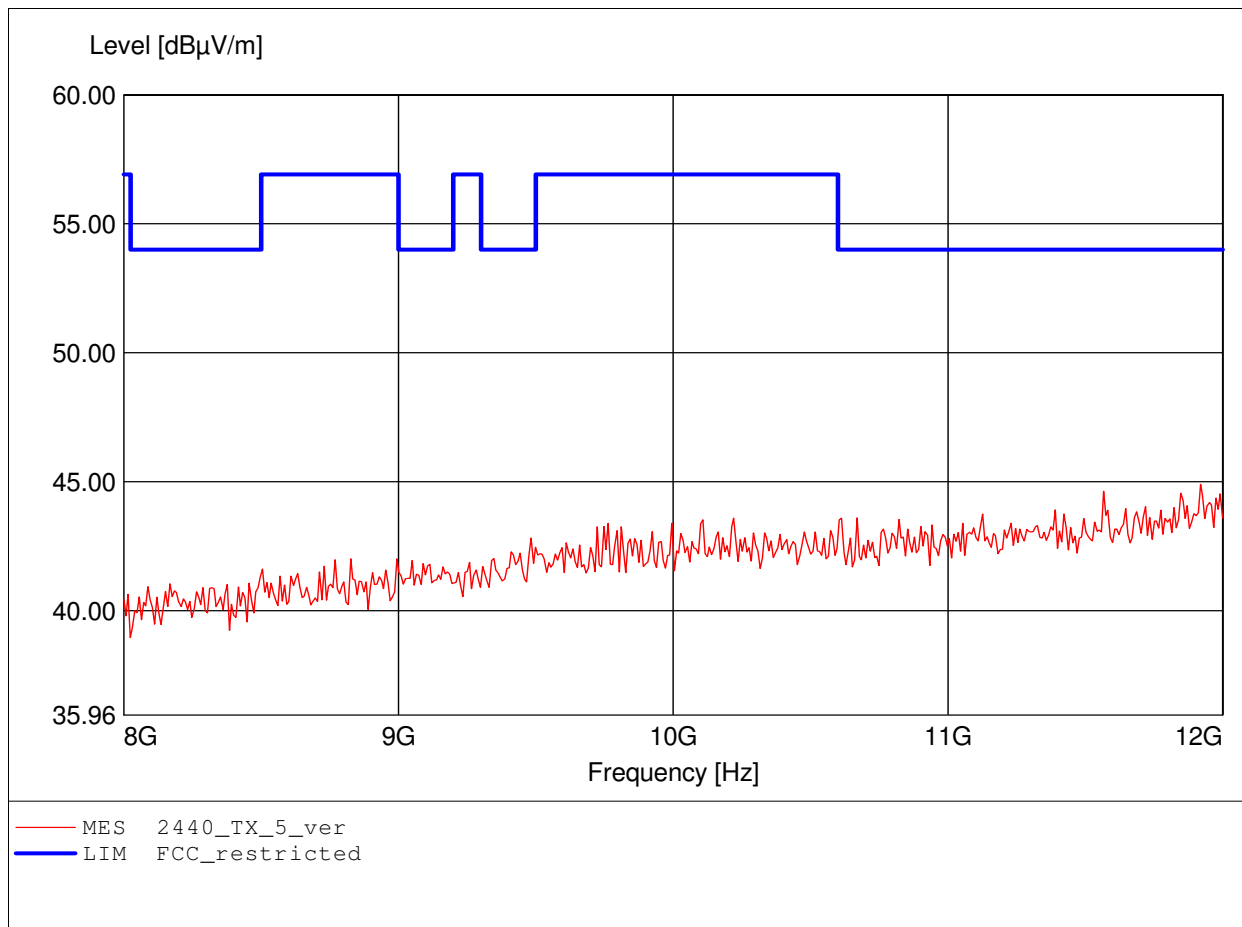
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.992GHz, Emax: 44.06dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

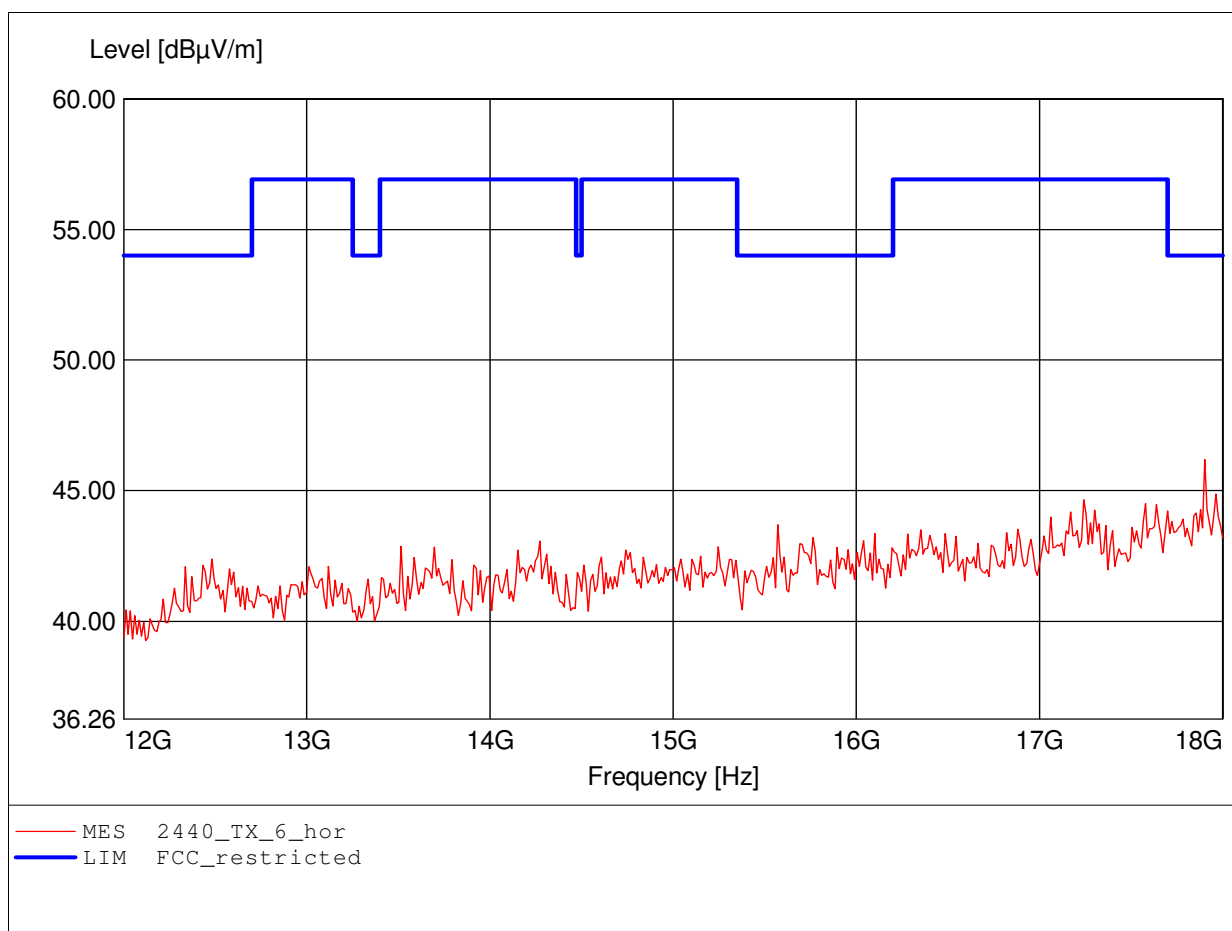
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.920GHz, Emax: 44.91dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

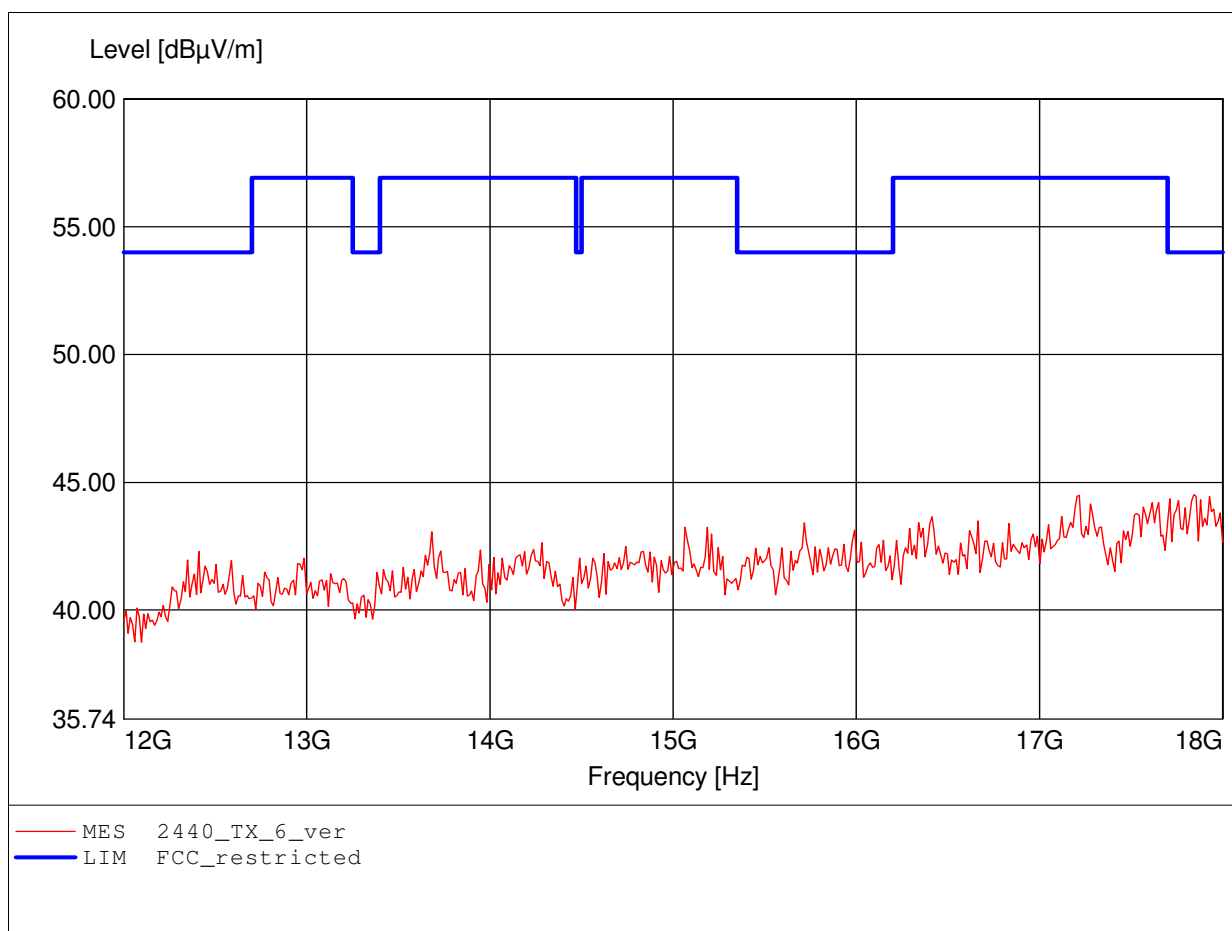
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 17.904GHz, Emax: 46.19dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

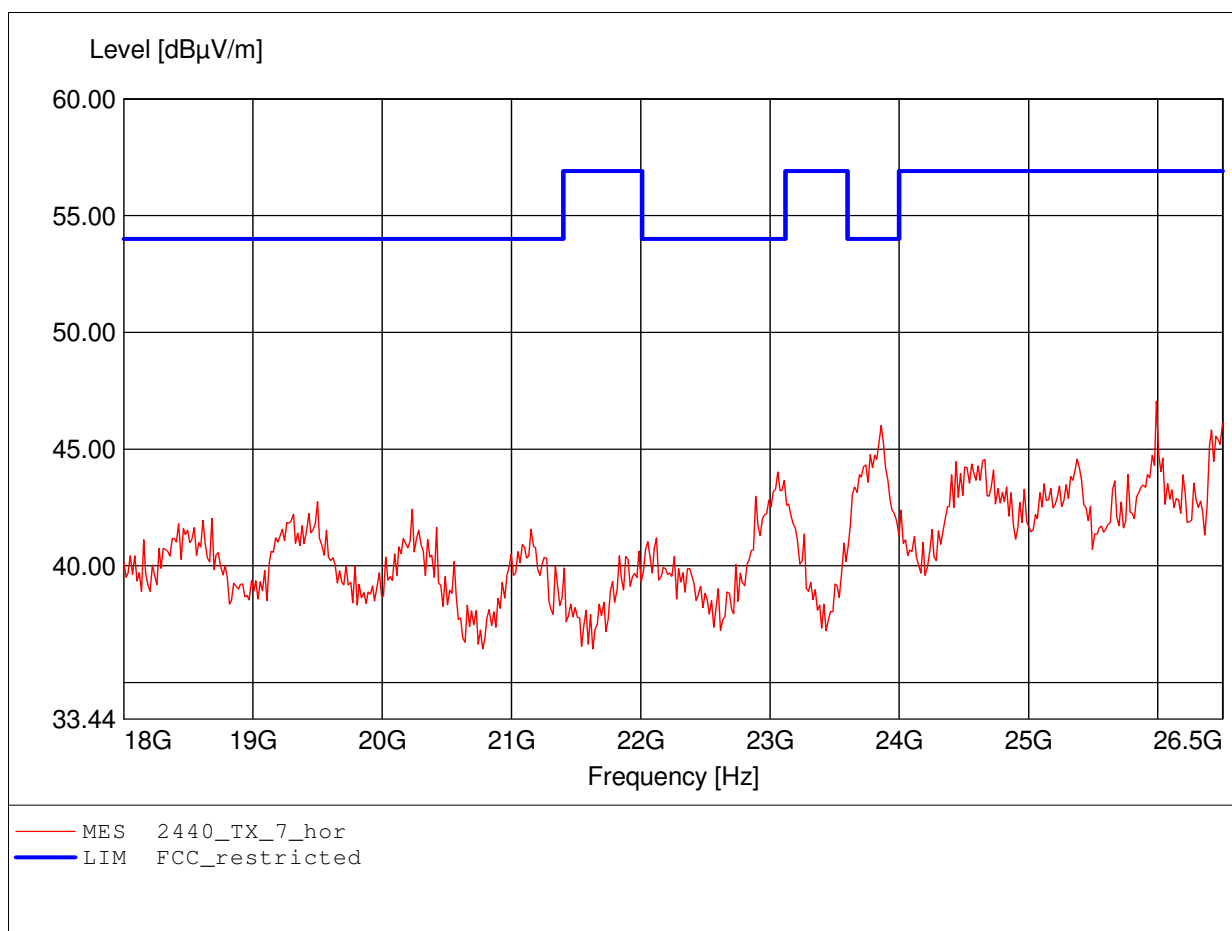
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 17.844GHz, Emax: 44.52dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

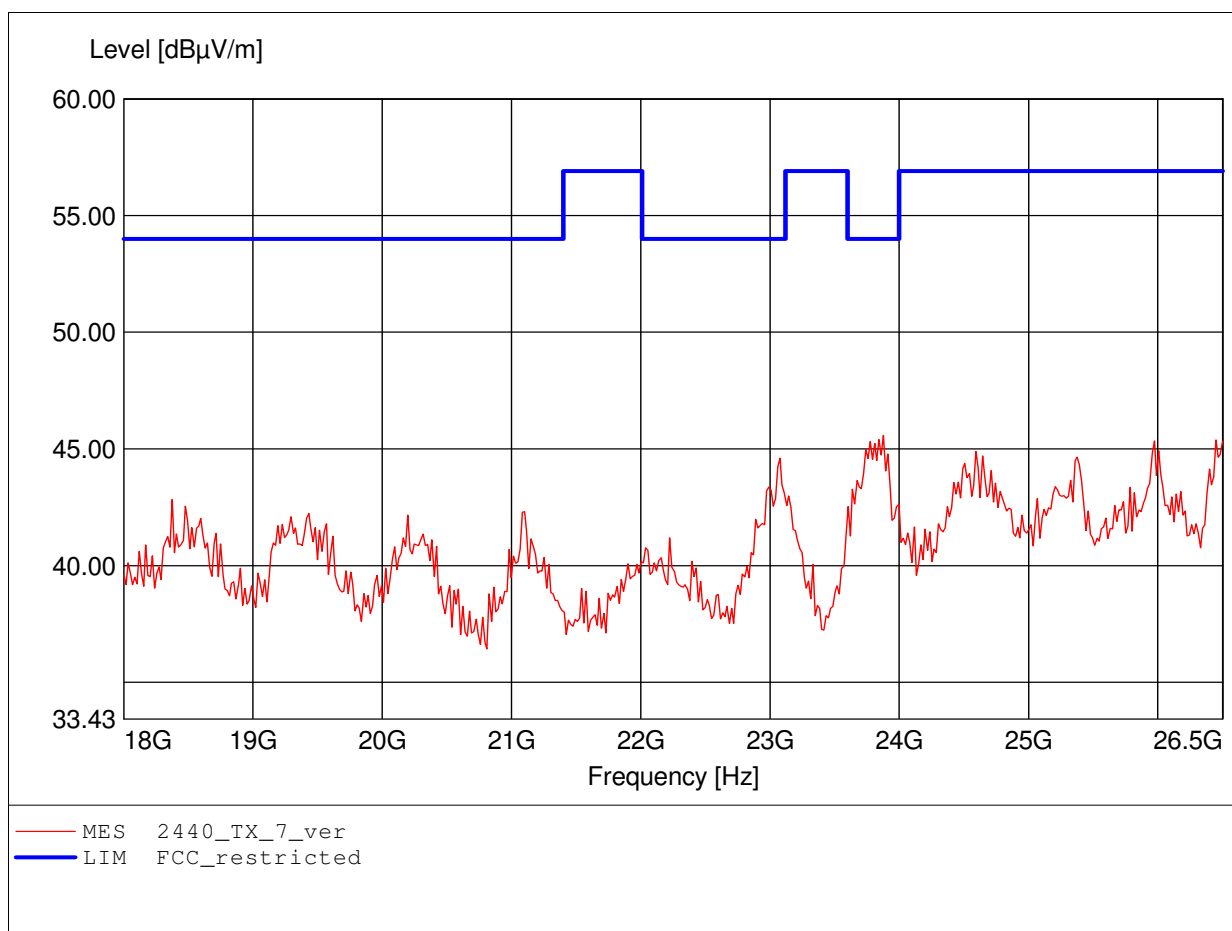
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.989GHz, Emax: 47.05dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

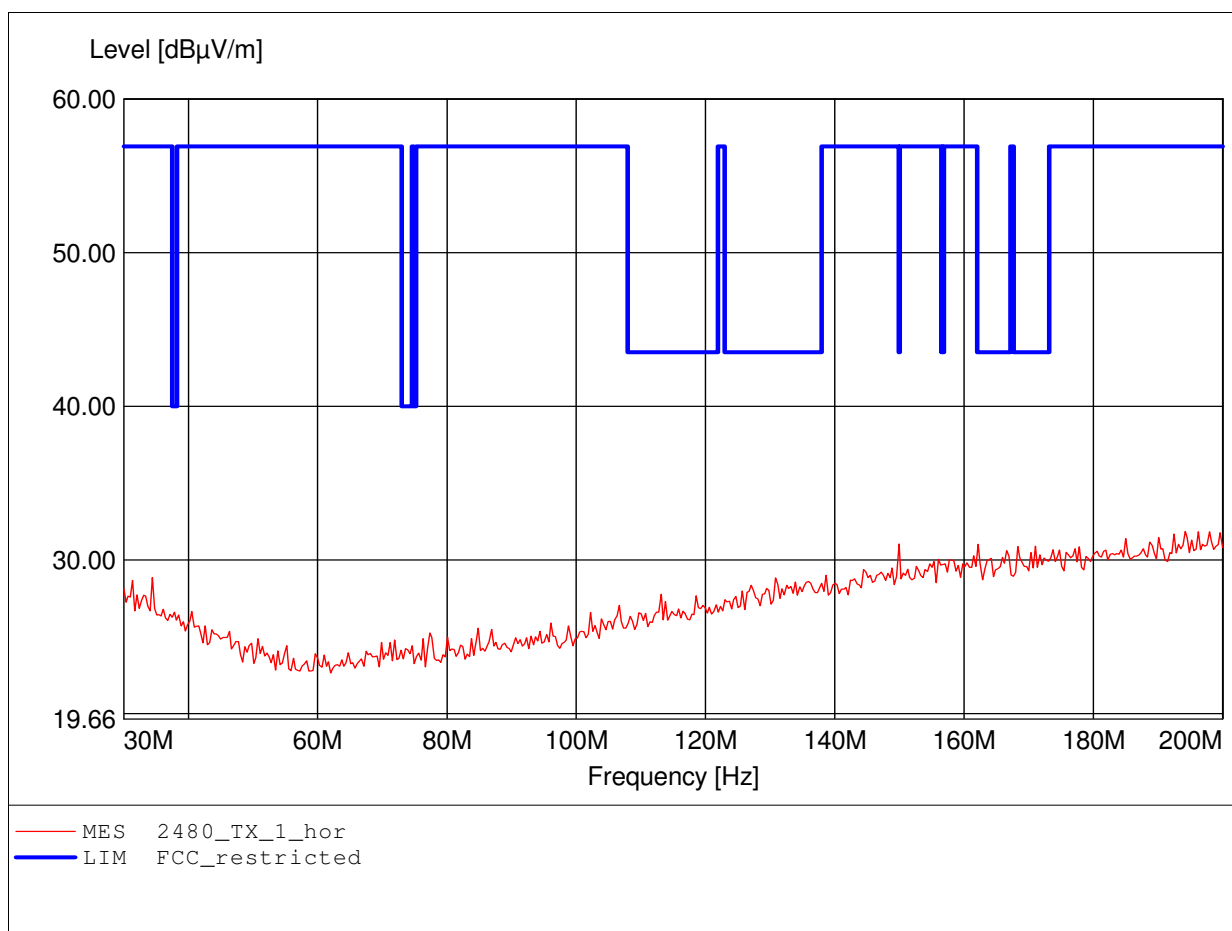
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: Mid / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2440
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 23.877GHz, Emax: 45.58dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

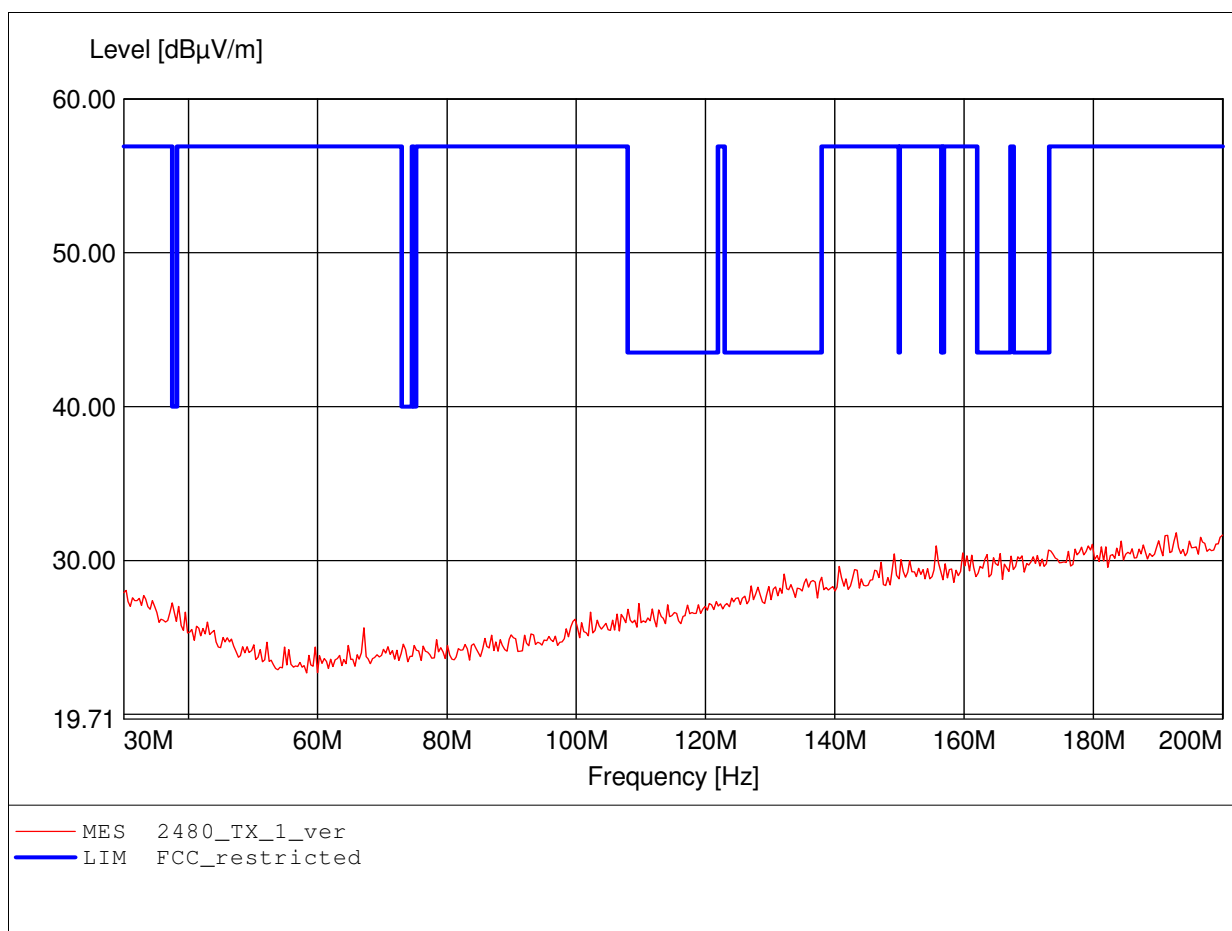
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 194.208MHz, Emax: 31.86dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

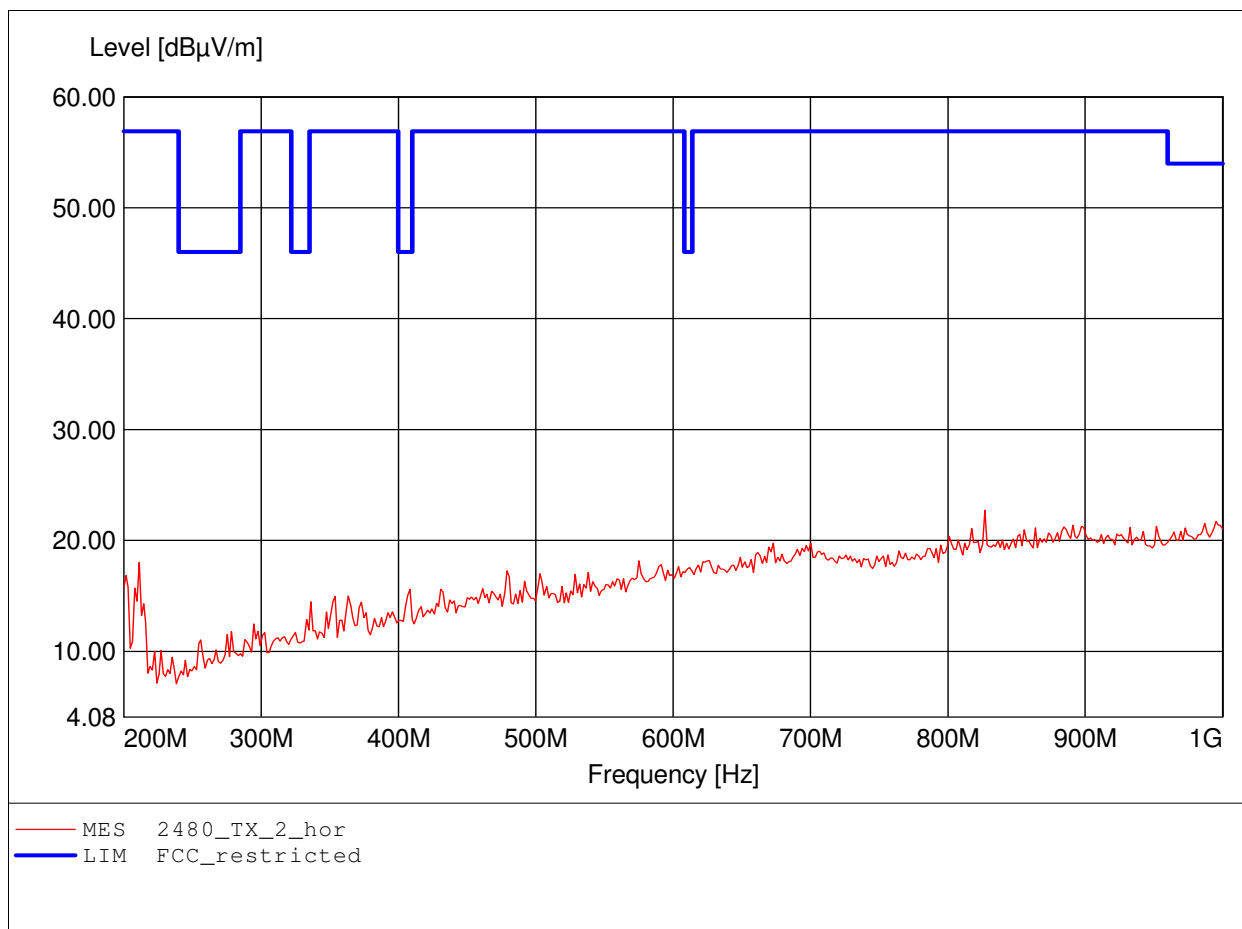
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 192.846MHz, Emax: 31.82dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

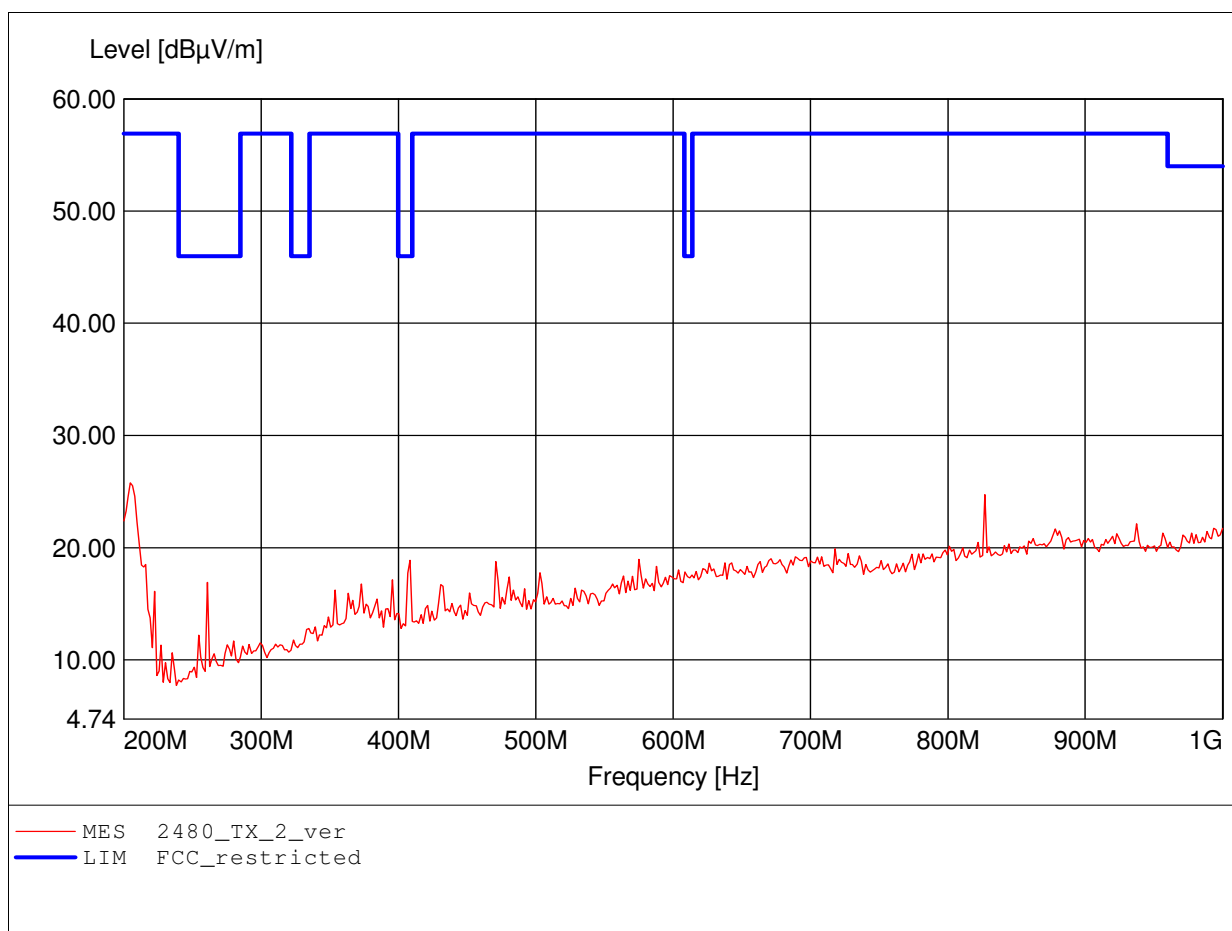
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 826.854MHz, Emax: 22.69dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

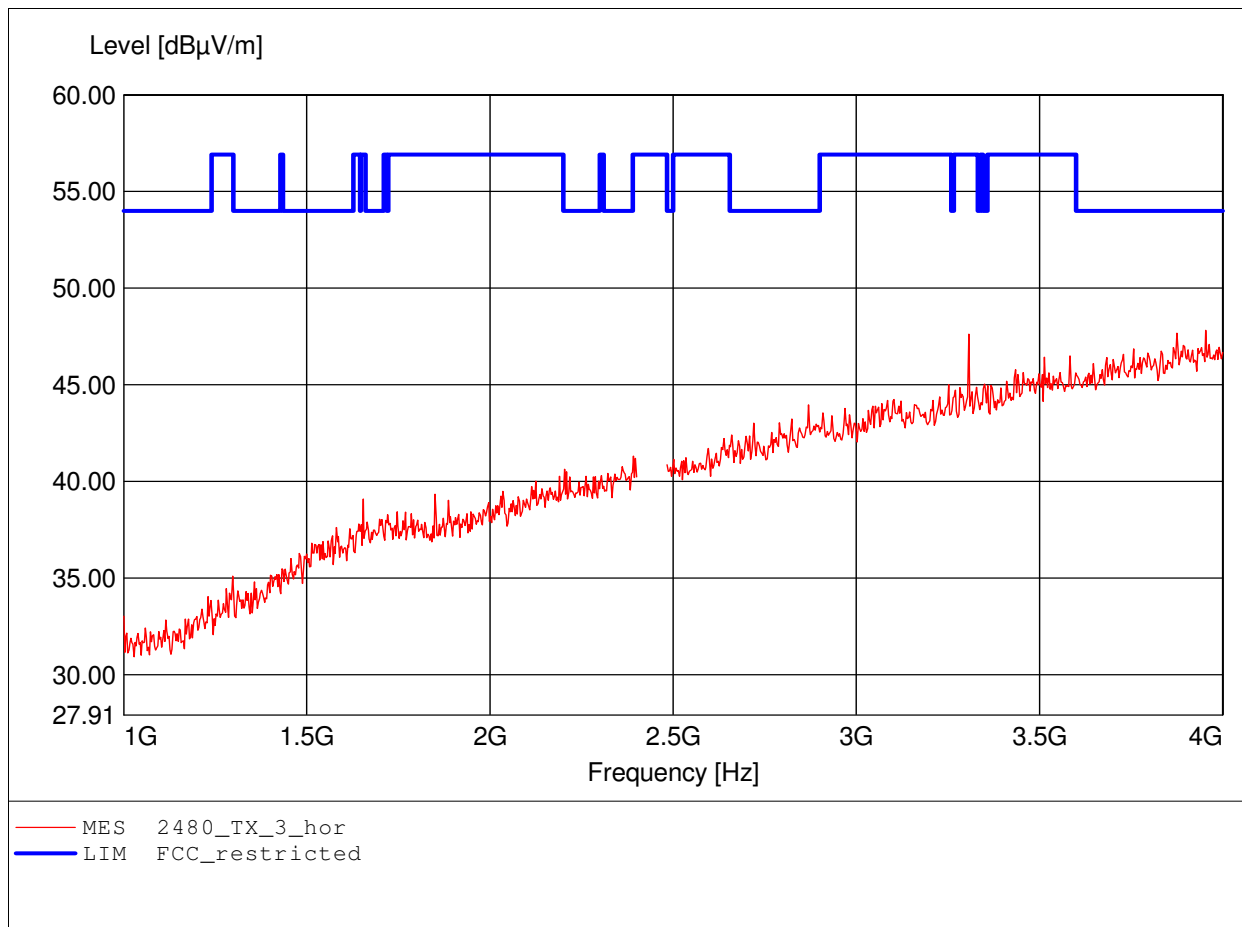
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 204.810MHz, Emax: 25.77dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

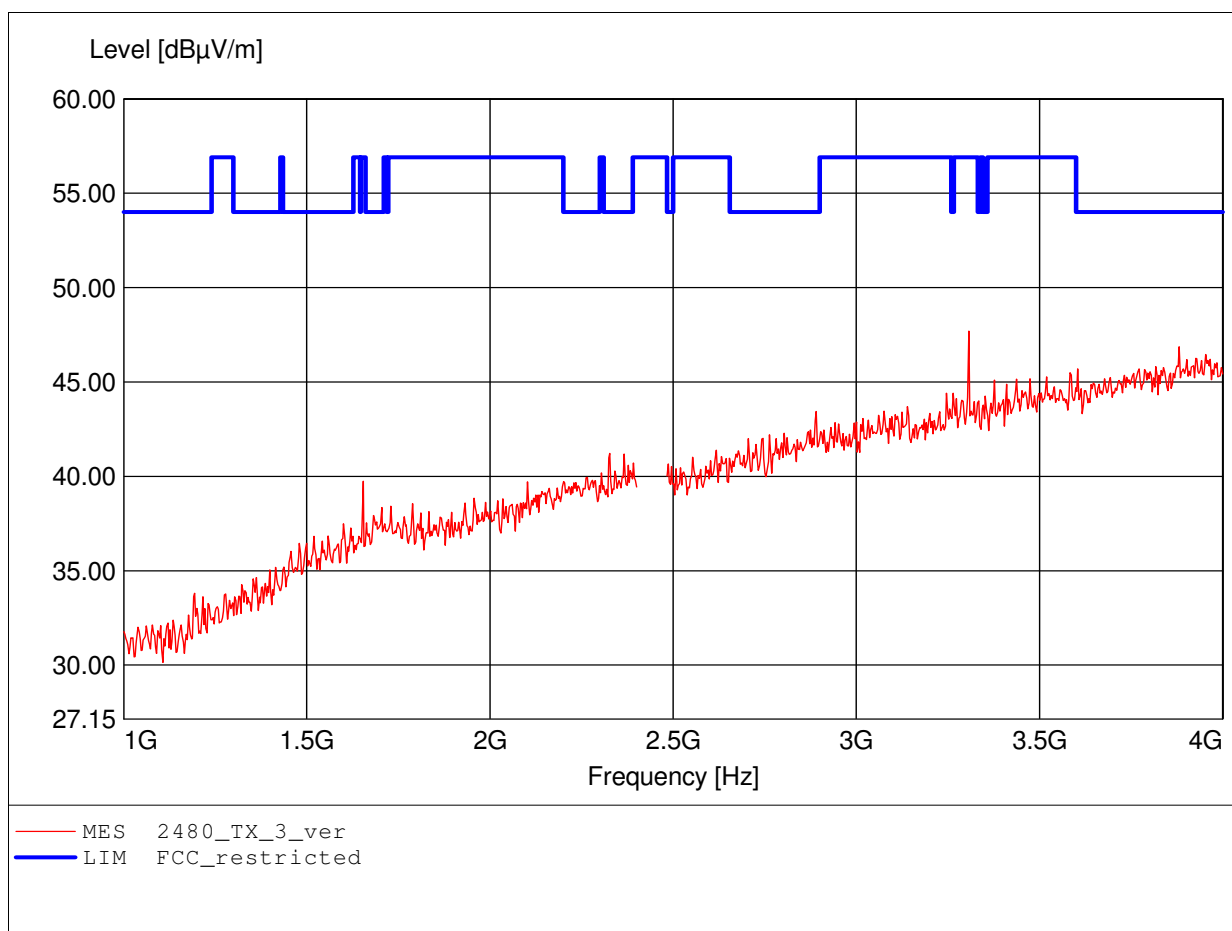
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.954GHz, Emax: 47.82dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

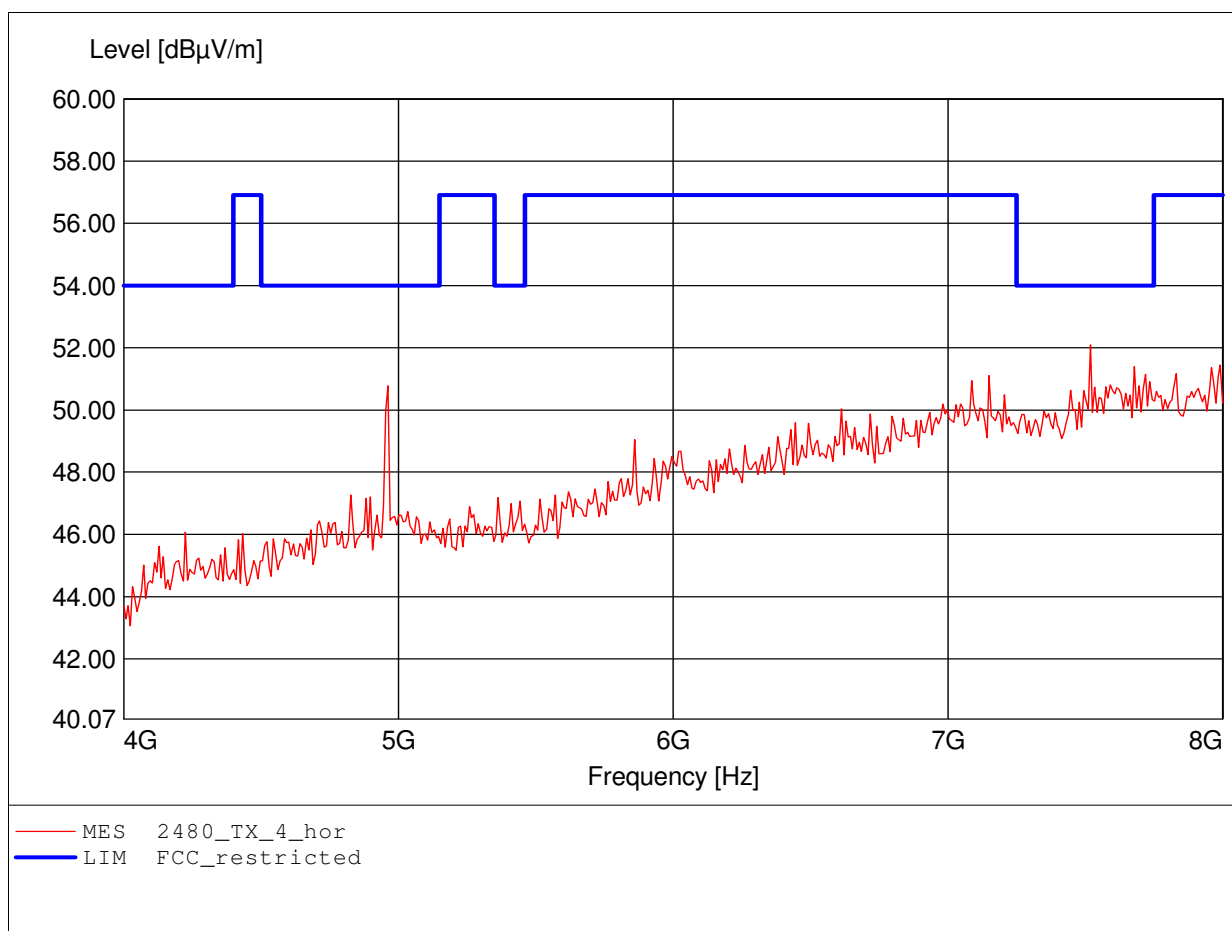
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.307GHz, Emax: 47.70dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

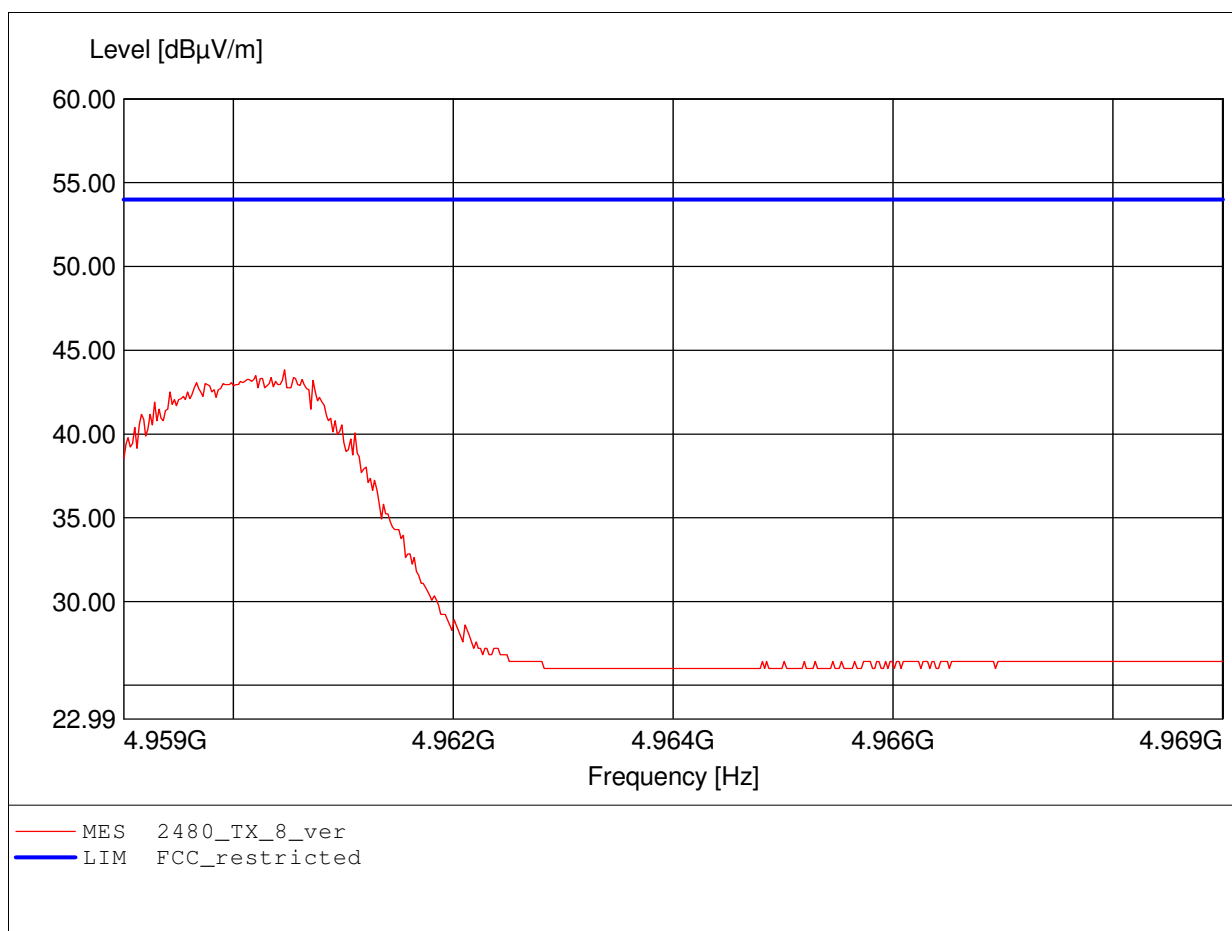
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 7.519GHz, Emax: 52.09dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

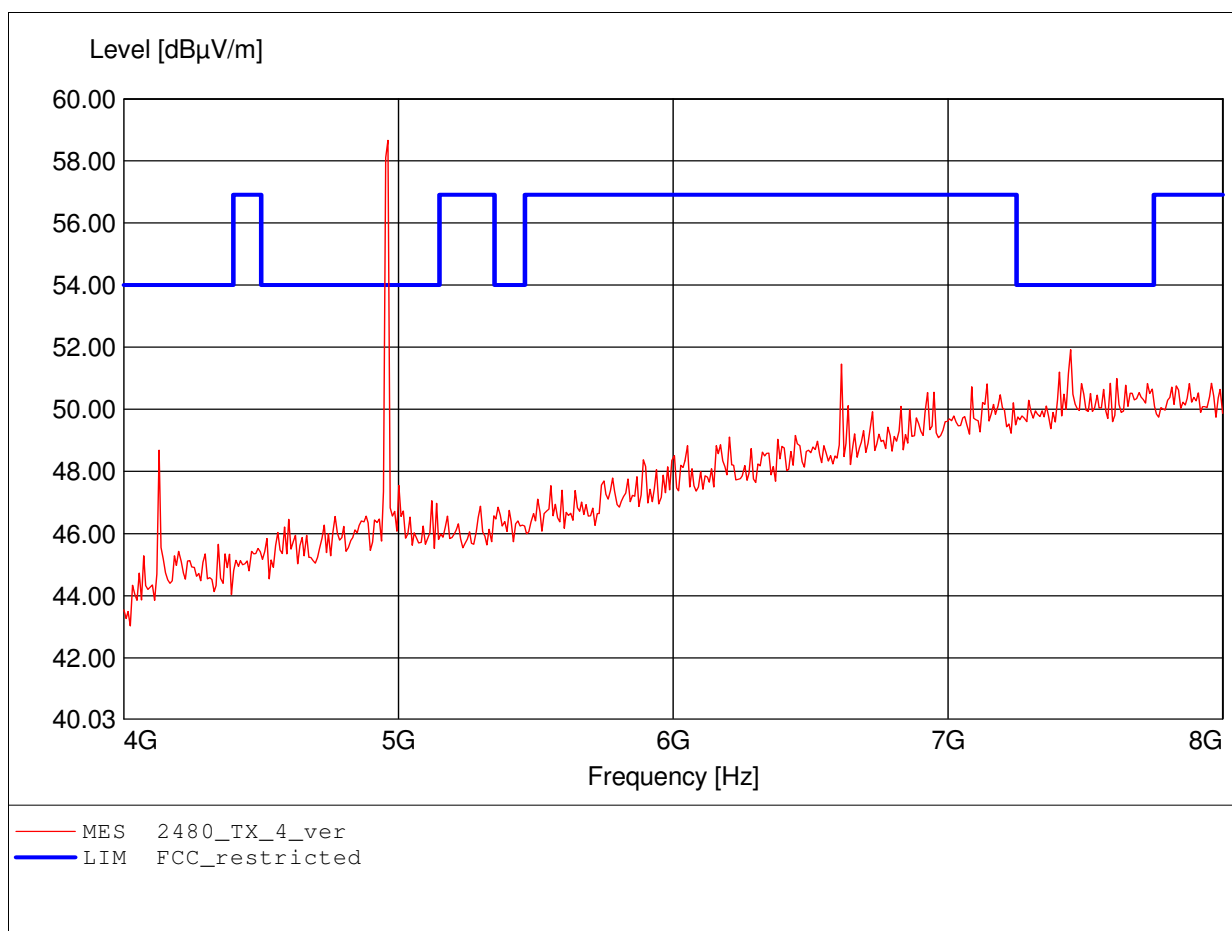
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 4.960GHz, Emax: 43.82dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

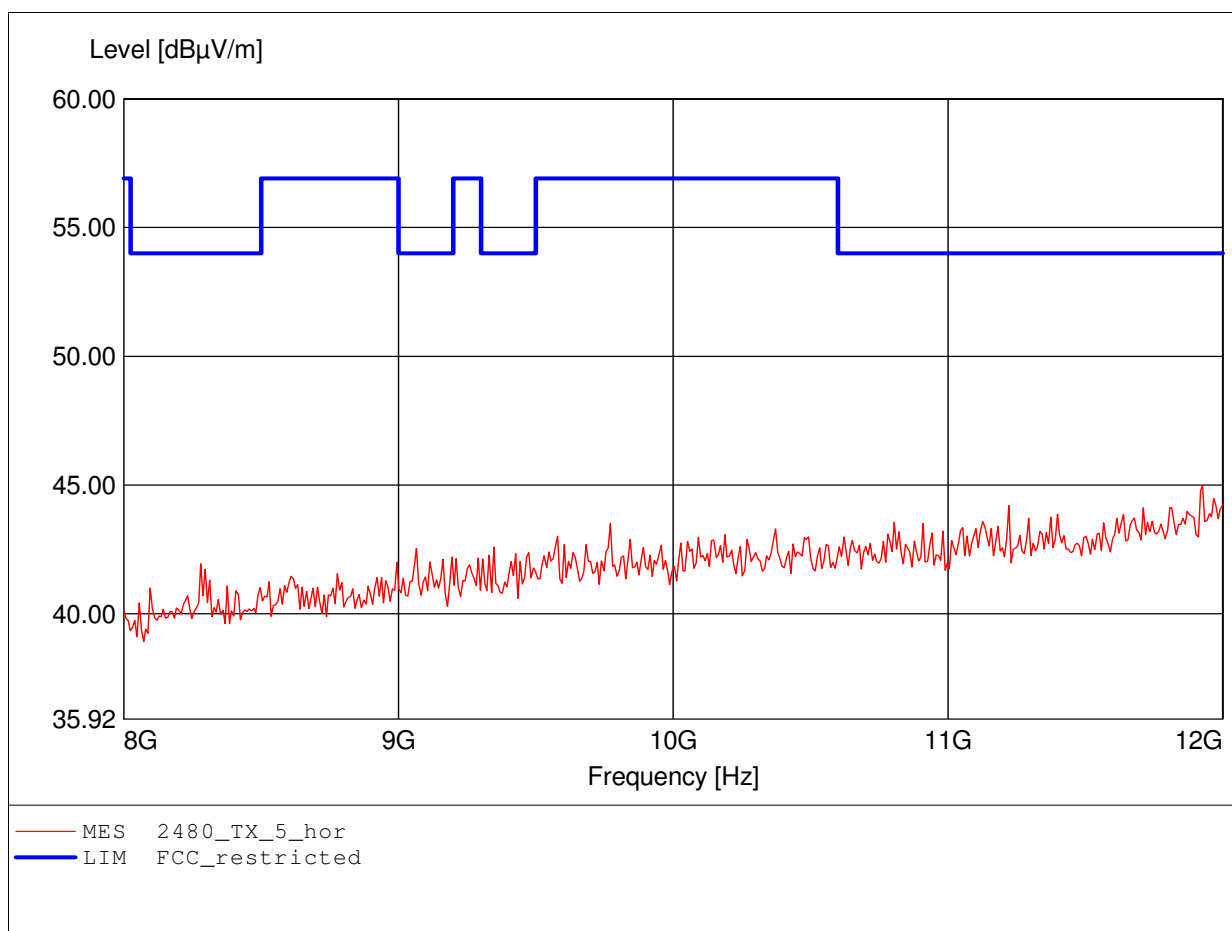
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 58.66dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

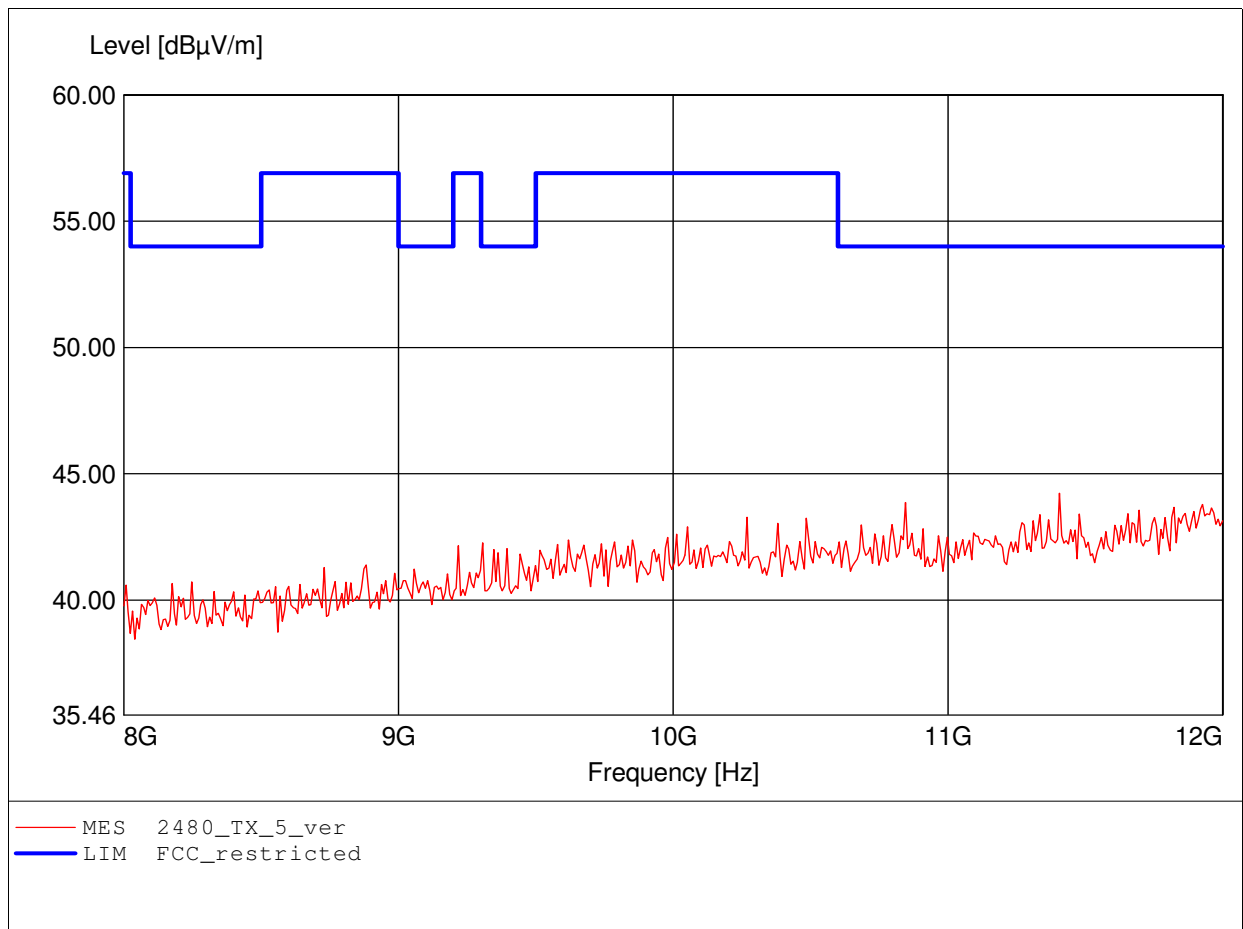
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.928GHz, Emax: 44.98dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

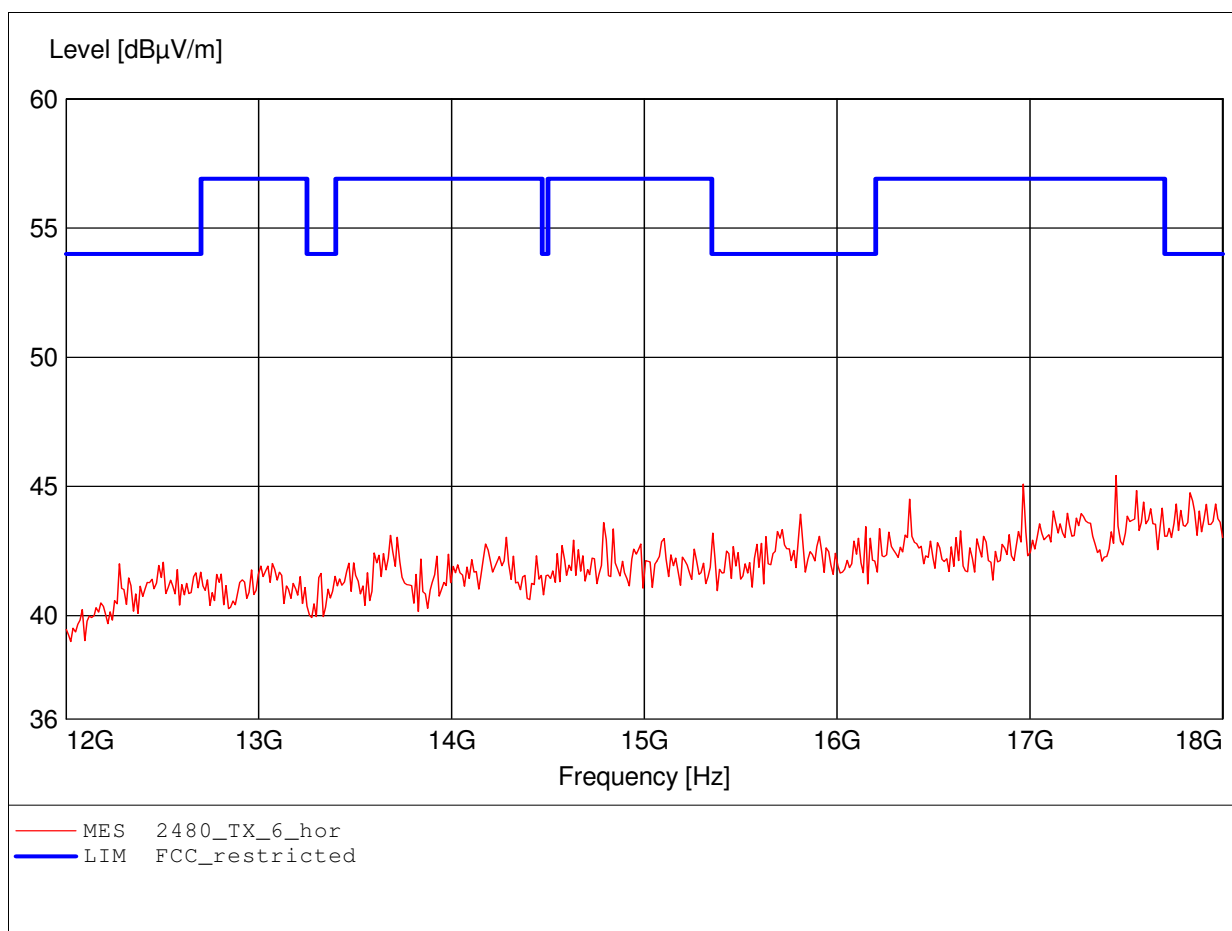
Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.407GHz, Emax: 44.23dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

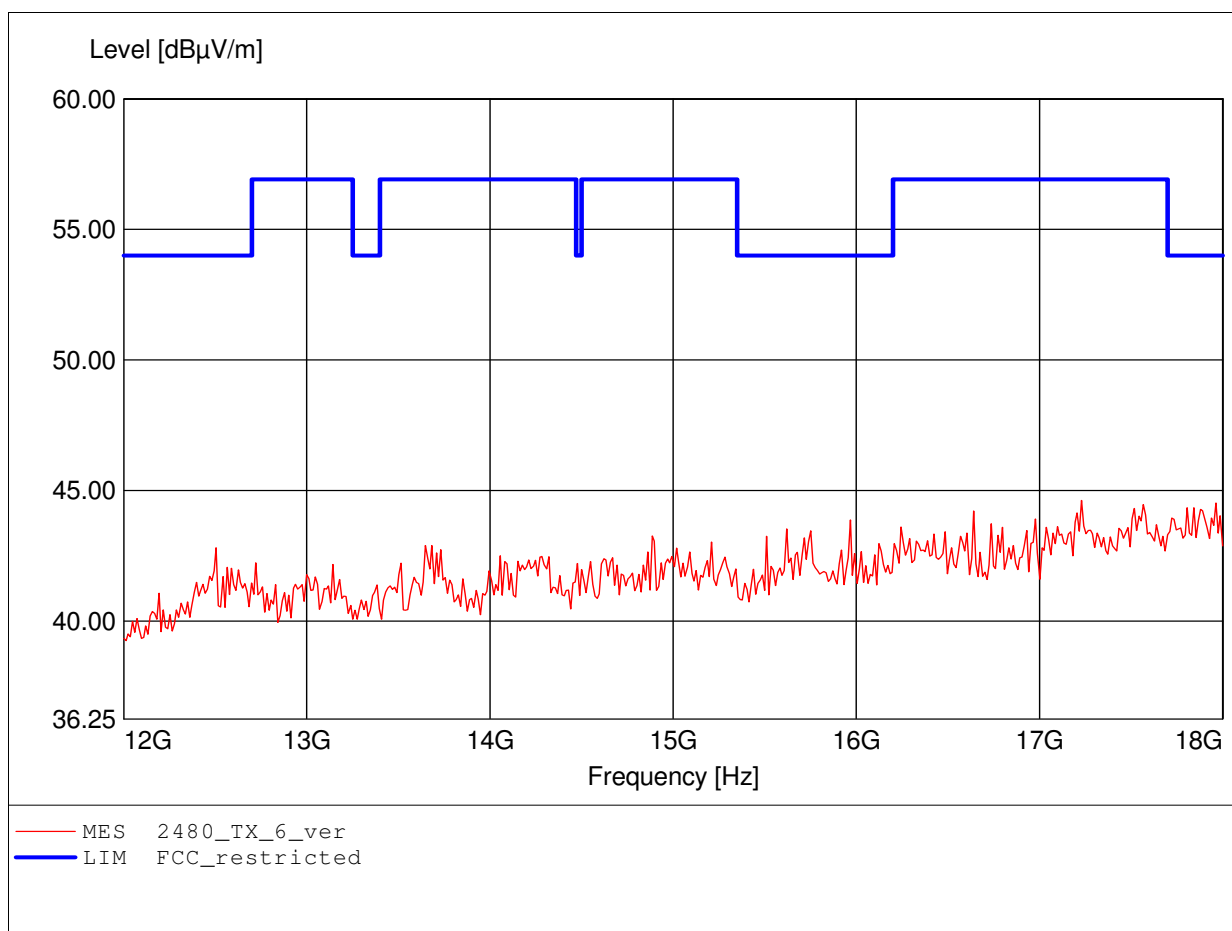
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 17.447GHz, Emax: 45.42dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

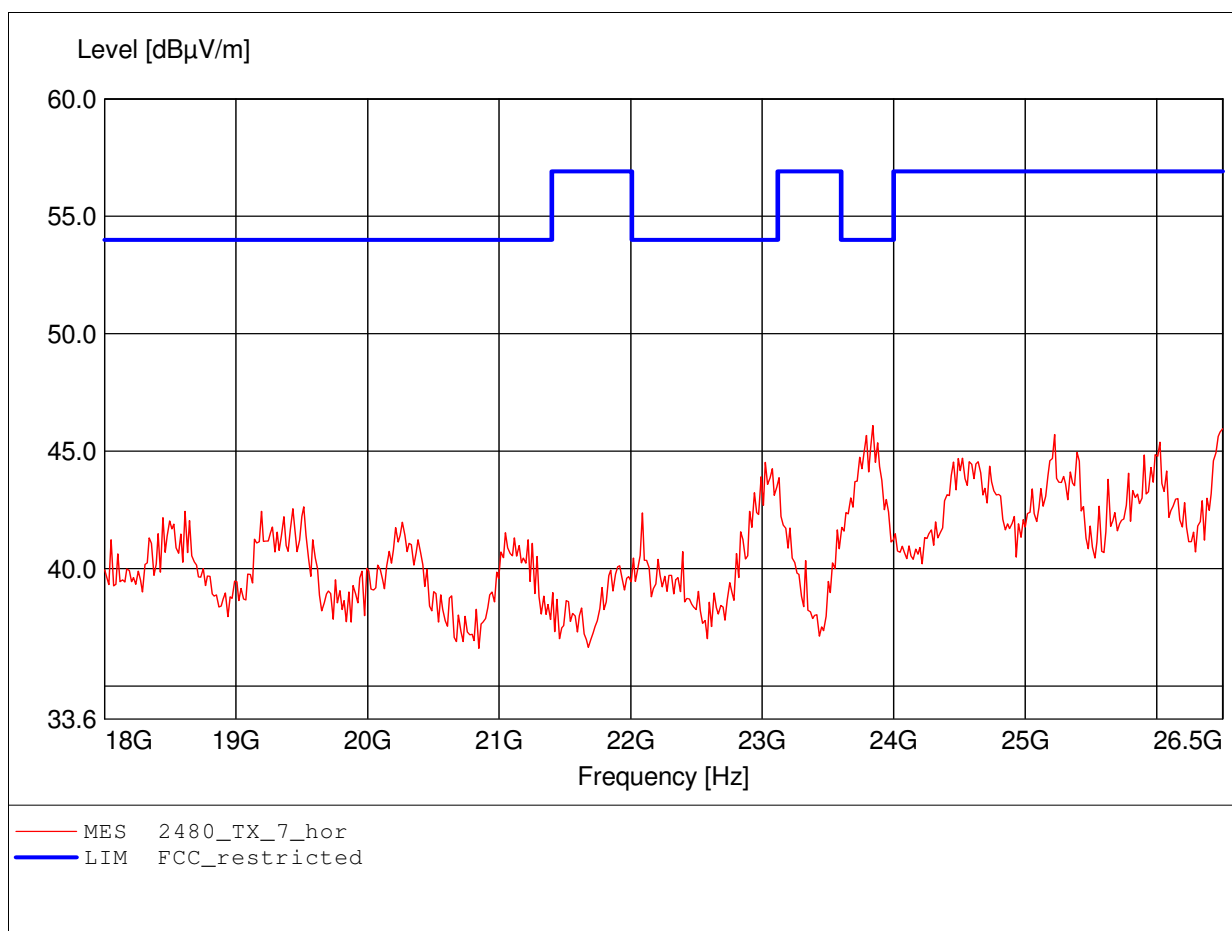
Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 17.230GHz, Emax: 44.62dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: KONDO KAGAKU CO., LTD. / G0M-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 23.843GHz, Emax: 46.09dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: KONDO KAGAKU CO., LTD. / GOM-1206-2073
EUT / Model: Radio Control Transmitter for Model cars / EX-1 ASF
Setup: 2.4 GHz DSSS / CH: High / ANTB18-155A0 vertical
Test Site / Operator: Eurofins Product Service GmbH / Mr. Pudell
Test Condition: Tnom: 24°C / Vnom.: 6.0V DC (4x AAA battery)
Test Specification: Freq. / CH: 2480
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.500GHz, Emax: 46.88dBμV/m, RBW: 1MHz

