

APPLICATION FOR CERTIFICATION

On Behalf of
Futaba Corporation
Radio Control
Model No. : T2PL-2.4G
FCC ID : AZPT2PL-24G
Brand: Futaba

Prepared for : Futaba Corporation
1080 Yabutsuka Chosei-son Chosei-gun
Chiba, 299-4395 Japan.

Prepared by : AUDIX Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
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File Number : EM980793
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Date of Test : Jul. 30 ~ Aug. 04, 2009
Date of Report : Aug. 06, 2009

TABLE OF CONTENTS

Description	Page
TEST REPORT CERTIFICATION	4
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Description of Test Facility	6
1.3. Measurement Uncertainty	6
2. CONDUCTED EMISSION MEASUREMENT.....	7
3. RADIATED EMISSION MEASUREMENT	8
3.1. Test Equipment.....	8
3.2. Test Setup	8
3.3. Radiated Emission Limits (§15.209)	10
3.4. Operating Condition of EUT	10
3.5. Test Procedure	10
3.6. Radiated Emission Measurement Results.....	11
4. 20dB BANDWIDTH MEASUREMENT	29
4.1. Test Equipment.....	29
4.2. Block Diagram of Test Setup.....	29
4.3. Specification Limits (§15.247(a)(1))	29
4.4. Operating Condition of EUT	29
4.5. Test Procedure (DA 00-705).....	29
4.6. Test Results.....	30
5. CARRIER FREQUENCY SEPARATION MEASUREMENT	32
5.1. Test Equipment.....	32
5.2. Block Diagram of Test Setup.....	32
5.3. Specification Limits (§15.247(a)(1))	32
5.4. Operating Condition of EUT	32
5.5. Test Procedure (DA 00-705).....	32
5.6. Test Results.....	33
6. TIME OF OCCUPANCY MEASUREMENT	36
6.1. Test Equipment.....	36
6.2. Block Diagram of Test Setup.....	36
6.3. Specification Limits (§15.247(a)(1)(iii))	36
6.4. Operating Condition of EUT	36
6.5. Test Procedure (DA 00-705).....	36
6.6. Test Results.....	37
7. NUMBER OF HOPPING CHANNELS MEASUREMENT	41
7.1. Test Equipment.....	41
7.2. Block Diagram of Test Setup.....	41
7.3. Specification Limits (§15.247(a)(1)(iii))	41
7.4. Operating Condition of EUT	41
7.5. Test Procedure (DA 00-705).....	41
7.6. Test Results.....	41
8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT	43
8.1. Test Equipment.....	43
8.2. Block Diagram of Test Setup.....	43
8.3. Specification Limits (§15.247(b)-(1)).....	43
8.4. Operating Condition of EUT	43
8.5. Test Procedure (DA 00-705).....	43
8.6. Test Results.....	43

9. EMISSION LIMITATIONS MEASUREMENT	44
9.1. Test Equipment	44
9.2. Block Diagram of Test Setup	44
9.3. Specification Limits (§15.247(c))	44
9.4. Operating Condition of EUT	44
9.5. Test Procedure (DA 00-705)	44
9.6. Test Results	45
10. BAND EDGES MEASUREMENT	47
10.1. Test Equipment	47
10.2. Block Diagram of Test Setup	47
10.3. Specification Limits (§15.247(c))	47
10.4. Operating Condition of EUT	47
10.5. Test Procedure (DA 00-705)	47
10.6. Test Results	47
11. DEVIATION TO TEST SPECIFICATIONS	49
12. PHOTOGRAPHS	50
12.1. Photos of Radiated Measurement at Semi-Anechoic Chamber	50
12.2. Photo of 20dB Bandwidth Measurement	52
12.3. Photo of Carrier Frequency Separation Measurement	52
12.4. Photo of Time of Occupancy Measurement	53
12.5. Photo of Number of Hopping Channel Measurement	53
12.6. Photo of Maximum Peak Output Power Measurement	54
12.7. Photo of Emission Limitation Measurement	54
12.8. Photo of Band Edges Measurement	55

APPENDIX I (Radiated Test Data for frequency rang above 1GHz at Semi-Anechoic Chamber)

TEST REPORT CERTIFICATION

Applicant : Futaba Corporation
 Manufacturer : Futaba Corporation
 EUT Description : Radio Control
 FCC ID : AZPT2PL-24G
 (A) Model No. : T2PL-2.4G
 (B) Serial No. : N/A
 (C) Brand : Futaba
 (D) Power Supply : DC 6V
 (E) Test Voltage : DC 6V (Via Batteries)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, July. 2008
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.207 and §15.209 and §15.247)

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart B & C limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test : Jul. 30 ~ Aug. 04, 2009

Date of Report : Aug. 06, 2009

Producer : Tina Huang
 (Tina Huang/Administrator)

Review : Henning Chang
 (Henning Chang/Supervisor)

Signatory : Ben Cheng
 (Ben Cheng/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Radio Control (Transmitter Unit)
Model Number	:	T2PL-2.4G
Serial Number	:	N/A
FCC ID	:	AZPT2PL-24G
Applicant	:	Futaba Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Manufacturer	:	Futaba Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Radio Technology	:	FHSS Modulation
Frequency Band	:	2404.000MHz ~ 2447.500MHz
Tested Frequency	:	2404.000MHz (Channel 01) 2425.000MHz (Channel 15) 2447.500MHz (Channel 30)
Frequency Channel	:	30 channels
Antenna (Pencil Antenna)	:	Antenna Gain: 1.3dBi
Date of Receipt of Sample	:	Apr. 06, 2009
Date of Test	:	Aug. 06, 2009

1.2. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan

Test Location & Facility (AC) : **Semi-Anechoic Chamber**
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei Hsien, Taiwan.
 May 14, 2009 File on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Radiation Test (Distance: 3m)	30MHz~300MHz	±2.91dB
	300MHz~1000MHz	±2.94dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
20dB Bandwidth	± 0.2kHz
Carrier Frequency Separation	± 0.2kHz
Time Of Occupancy	± 0.03sec
Maximum peak Output power	± 0.52dBm
Emission Limitations	± 0.13dB
Band Edges	± 0.13dB

2. CONDUCTED EMISSION MEASUREMENT

【The EUT only employs battery power for operation, no conductive emission limits are required according to FCC Part 15 Section §15.207】

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 24, 08'	Oct. 23, 09'
2.	Test Receiver	R & S	ESCS30	100265	Aug. 28, 08'	Aug. 27, 09'
3.	Pre-Amplifier	HP	8447D	2944A06305	Feb. 04, 09'	Feb. 03, 10'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 20, 09'	Mar. 19, 10'
5.	Log Periodic Antenna	Schwarzbeck	UHALP91 08-A	0810	Mar. 20, 09'	Mar. 19, 10'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

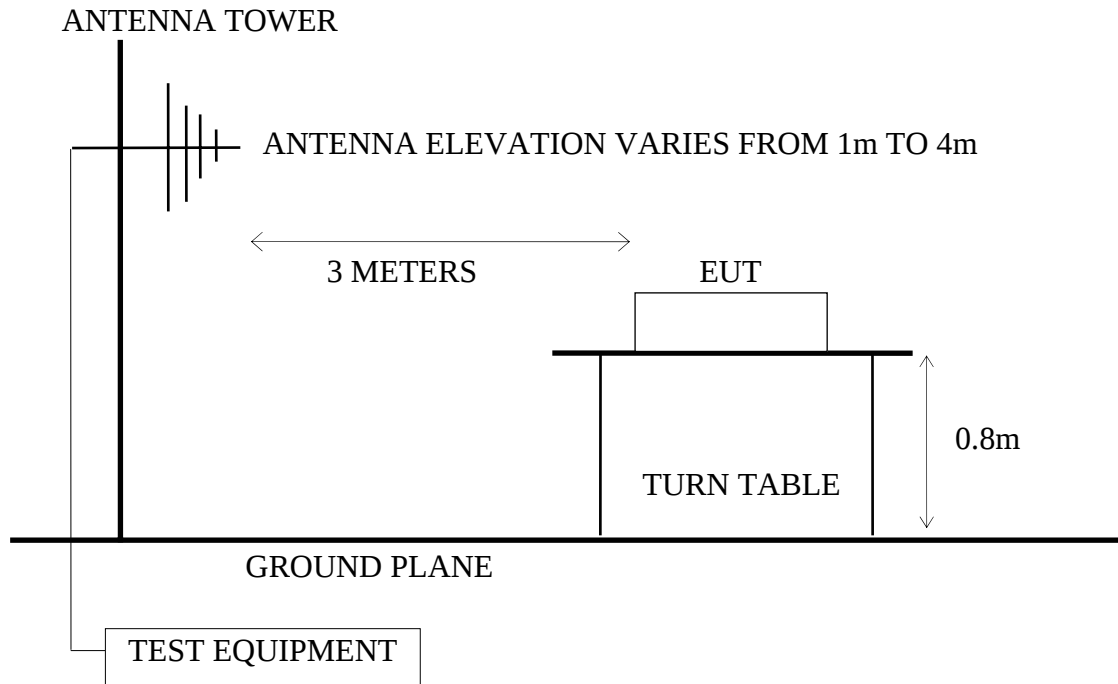
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8564EC	3946A00249	Oct. 24, 08'	Oct. 23, 09'
2.	Pre-Amplifier	HP	8449B	3008A00529	Dec. 31, 08'	Dec. 30, 09'
3.	2.4GHz Notch Filter	EWT	EWT-14-0 070	G2	Dec. 08, 08'	Dec. 07, 09'
4.	3.5G High Pass Filter	HP	84300- 80038	005	Jan. 09, 09'	Jan. 08, 10'
5.	Horn Antenna	EMCO	3115	9112-3775	May 15, 09'	May 14, 10'
6.	Horn Antenna	EMCO	3116	2653	Oct. 03, 08'	Oct. 02, 09'

3.2. Test Setup

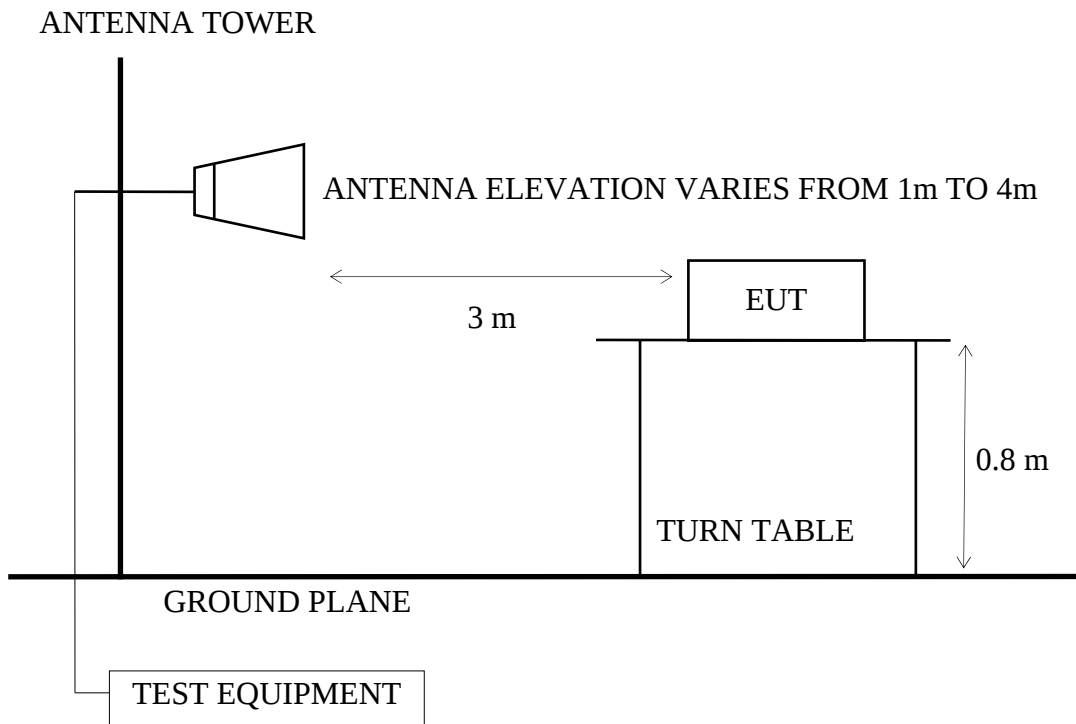
3.2.1. Block Diagram of connection between EUT and simulators

RADIO CONTROL (EUT)

3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

- 3.4.1. Set up the EUT (Radio Control) as shown on 3.2.
- 3.4.2. To turn on the power of all equipment.
- 3.4.3. The EUT was set the PC system using test program “Futaba Term”.
- 3.4.4. Transmit Mode: The EUT was set to continuously transmit signals at 2404.000MHz 、 2425.000MHz and 2447.500MHz during testing.
- 3.4.5. Receive Mode: The EUT was set to continuously receive signals at 2425.000MHz during testing.

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked.

3.6. Radiated Emission Measurement Results

PASSED.

(All emissions not reported below are too low against the prescribed limits.)

EUT : Radio Control M/N : T2PL-2.4G

Test Date : Jul. 30, 2009 Temperature : 27°C Humidity : 55%

For Frequency Range 30MHz~1000MHz:

The EUT select **worst position “stand”** and with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Channel	Frequency	Test Mode	Position	Reference Test Data	
					Horizontal	Vertical
1.	01	2404.000MHz	Transmit	Stand	# 10	# 9
2.	15	2425.000MHz		Stand	# 12	# 11
3.	30	2447.500MHz		Stand	# 11	# 12
4.	15	2425.000MHz	Receive	Stand	# 9	# 10

* Above all final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

The EUT select **worst position “stand”** and with the following test modes were measured within semi-anechoic chamber. All the graphical results are attached in Appendix I and all the final readings are listed in section 3.6.2.

Mode	Channel	Frequency	Test Mode	Position
1.	01	2404.000MHz	Transmit	Stand
2.	15	2425.000MHz		Stand
3.	30	2447.500MHz		Stand
4.	15	2425.000MHz	Receive	Stand

* Above all final readings were measured with Peak detector and Average detector.

For Restricted Bands:

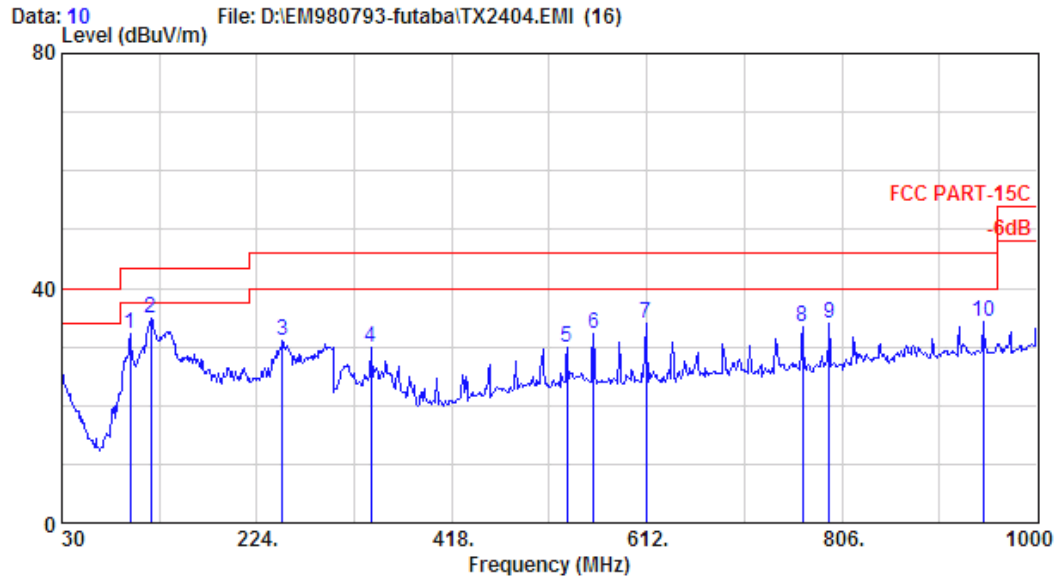
The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Mode	Channel	Frequency	Test Mode	Reference Test Data	
				Horizontal	Vertical
1.	01	2404.000MHz	Transmit	# 1, #4	#2, #3
2.	30	2447.500MHz	Transmit	#8, #5	#7, #6

3.6.1. Frequency Range 30-1000MHz



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 Email:ttemc@ttemc.com.tw



Site no. : site Data no. : 10
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2404

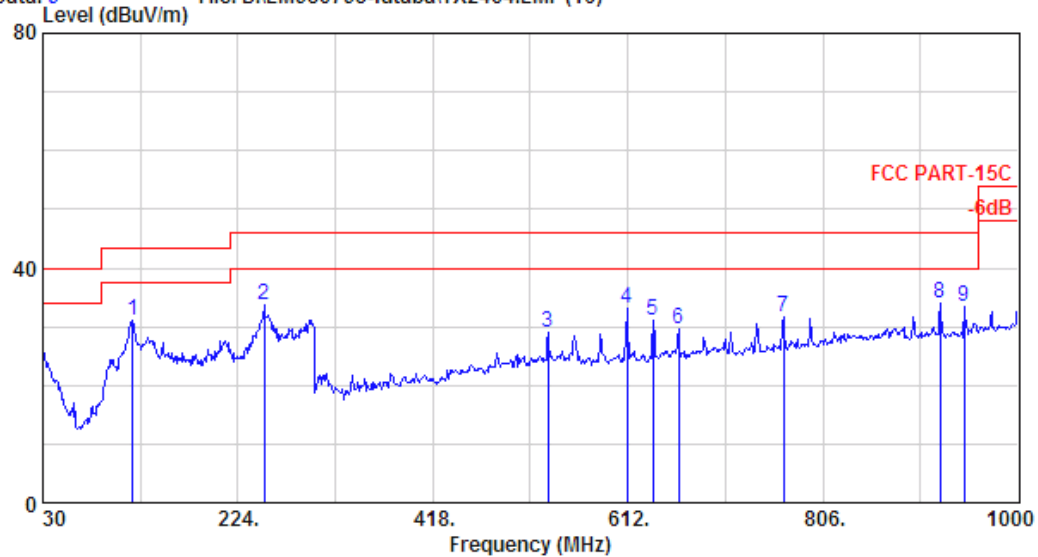
		Ant.	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	97.900	16.84	2.10	13.36	32.30	43.50	11.20	
2	118.270	18.94	2.30	13.67	34.91	43.50	8.59	
3	249.220	23.74	3.50	3.83	31.06	46.00	14.94	
4	337.490	15.09	4.20	10.62	29.91	46.00	16.09	
5	532.460	19.64	7.00	3.38	30.02	46.00	15.98	
6	558.650	19.89	6.70	5.53	32.12	46.00	13.88	
7	611.030	21.41	6.30	6.26	33.97	46.00	12.03	
8	767.200	23.86	6.80	2.84	33.49	46.00	12.51	
9	793.390	23.98	6.90	3.21	34.09	46.00	11.91	
10	946.650	25.76	7.50	0.88	34.14	46.00	11.86	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 9 File: D:\EM980793-futaba\TX2404.EMI (16)



Site no. : site Data no. : 9
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2404

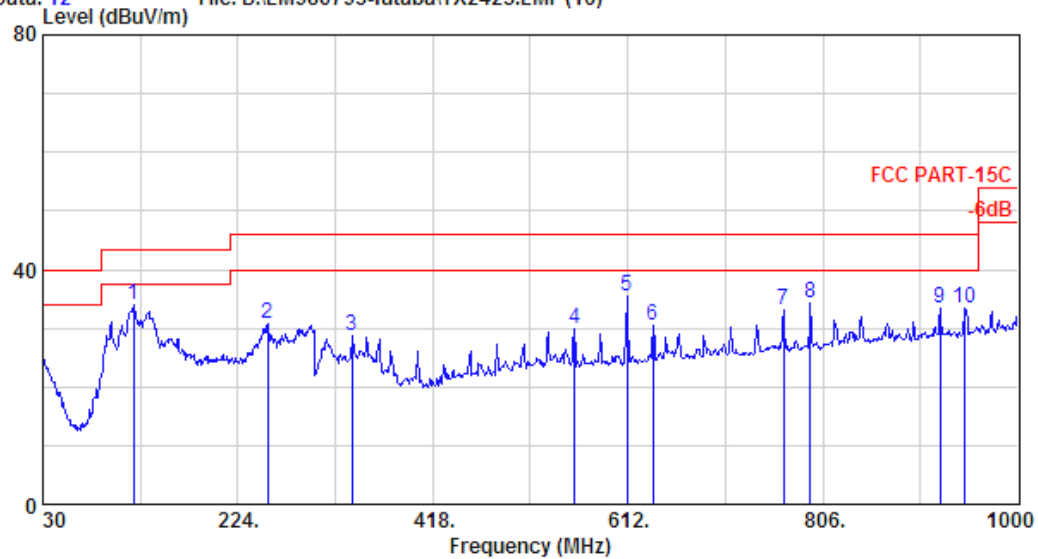
		Ant.	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	119.240	19.02	2.30	9.78	31.10	43.50	12.40	
2	250.190	23.83	3.50	6.35	33.68	46.00	12.32	
3	532.460	19.64	7.00	2.45	29.09	46.00	16.91	
4	611.030	21.41	6.30	5.50	33.21	46.00	12.79	
5	637.220	20.92	6.20	3.88	31.00	46.00	15.00	
6	662.440	22.47	6.39	0.77	29.64	46.00	16.36	
7	767.200	23.86	6.80	0.97	31.62	46.00	14.38	
8	922.400	24.52	7.40	2.19	34.11	46.00	11.89	
9	946.650	25.76	7.50	0.05	33.31	46.00	12.69	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 12 File: D:\EM980793-futaba\TX2425.EMI (16)



Site no. : site Data no. : 12
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
EUT : Radio Control M/N:T2PL
Power Rating : DC 6V
Test Mode : TX2425

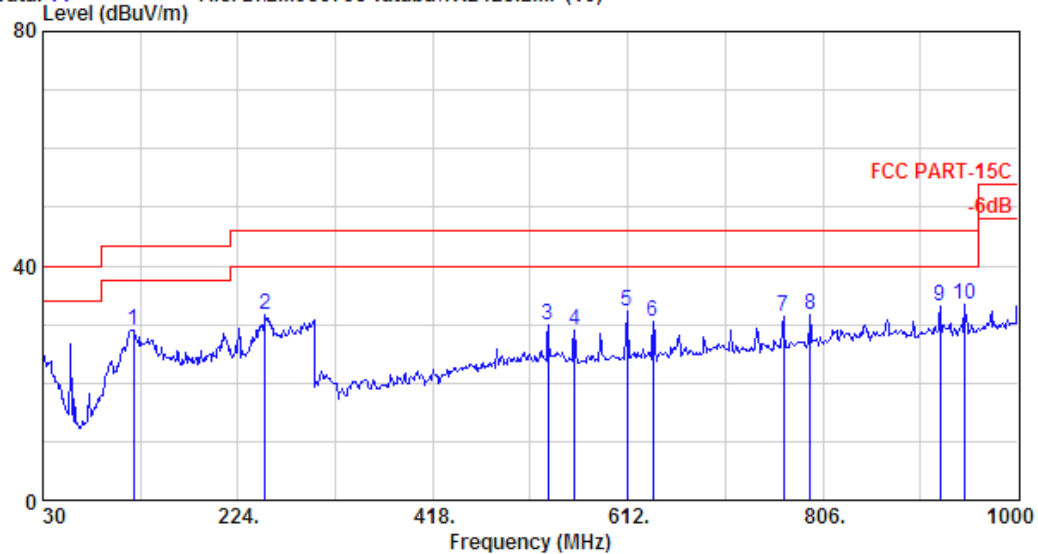
	Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	120.210	19.08	2.30	12.55	33.93	43.50	9.57
2	254.070	24.13	3.60	2.96	30.69	46.00	15.31
3	337.490	15.09	4.20	9.57	28.86	46.00	17.14
4	558.650	19.89	6.70	3.17	29.76	46.00	16.24
5	611.030	21.41	6.30	7.77	35.48	46.00	10.52
6	637.220	20.92	6.20	3.24	30.36	46.00	15.64
7	767.200	23.86	6.80	2.43	33.08	46.00	12.92
8	793.390	23.98	6.90	3.31	34.19	46.00	11.81
9	922.400	24.52	7.40	1.41	33.33	46.00	12.67
10	946.650	25.76	7.50	0.26	33.52	46.00	12.48

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11 File: D:\EM980793-futaba\TX2425.EMI (16)



Site no. : site Data no. : 11
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2425

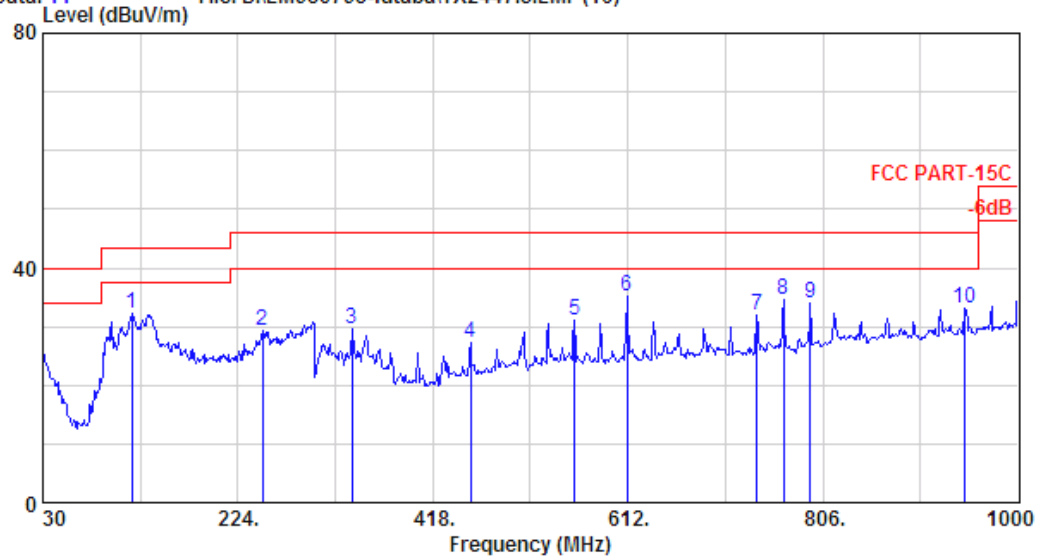
	Freq.	Ant. Factor	Cable Loss	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	120.210	19.08	2.30	7.69	29.07	43.50	14.43	
2	251.160	23.90	3.50	4.14	31.53	46.00	14.47	
3	532.460	19.64	7.00	3.15	29.79	46.00	16.21	
4	558.650	19.89	6.70	2.49	29.08	46.00	16.92	
5	611.030	21.41	6.30	4.58	32.29	46.00	13.71	
6	637.220	20.92	6.20	3.44	30.56	46.00	15.44	
7	767.200	23.86	6.80	0.72	31.37	46.00	14.63	
8	793.390	23.98	6.90	0.75	31.63	46.00	14.37	
9	922.400	24.52	7.40	1.34	33.26	46.00	12.74	
10	946.650	25.76	7.50	0.10	33.36	46.00	12.64	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11 File: D:\EM980793-futaba\TX2447.5.EMI (16)



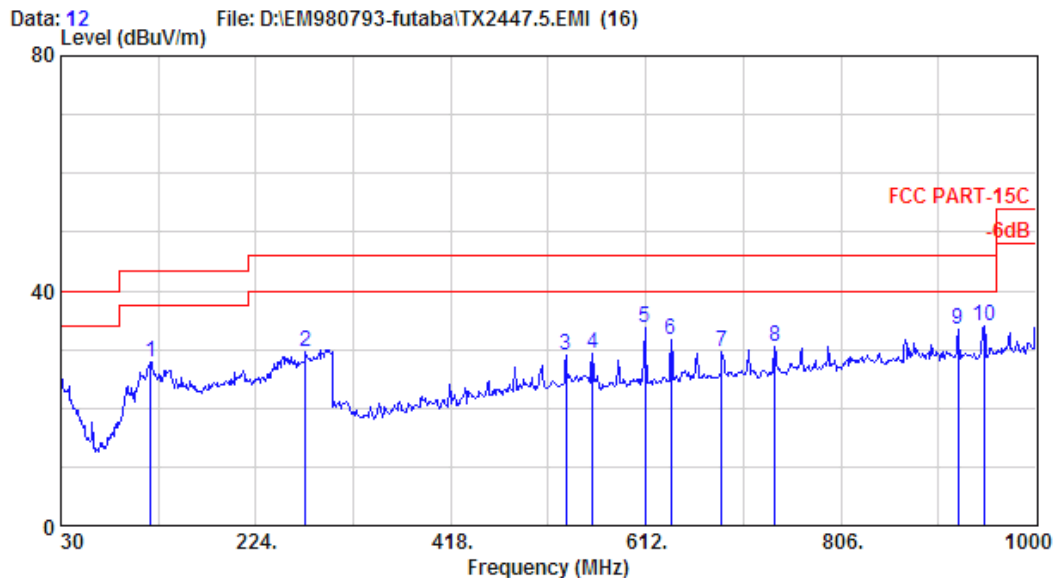
Site no. : site Data no. : 11
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
EUT : Radio Control M/N:T2PL
Power Rating : DC 6V
Test Mode : TX2447.5

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)		
1	118.270	18.94	2.30	10.92	32.16	43.50	11.34	
2	248.250	23.66	3.50	2.21	29.37	46.00	16.63	
3	337.490	15.09	4.20	10.25	29.54	46.00	16.46	
4	455.830	17.75	5.50	3.93	27.18	46.00	18.82	
5	558.650	19.89	6.70	4.55	31.14	46.00	14.86	
6	611.030	21.41	6.30	7.37	35.08	46.00	10.92	
7	740.040	22.38	6.64	3.05	32.07	46.00	13.93	
8	767.200	23.86	6.80	3.95	34.60	46.00	11.40	
9	793.390	23.98	6.90	3.06	33.94	46.00	12.06	
10	946.650	25.76	7.50	-0.05	33.21	46.00	12.79	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttemc@ttemc.com.tw



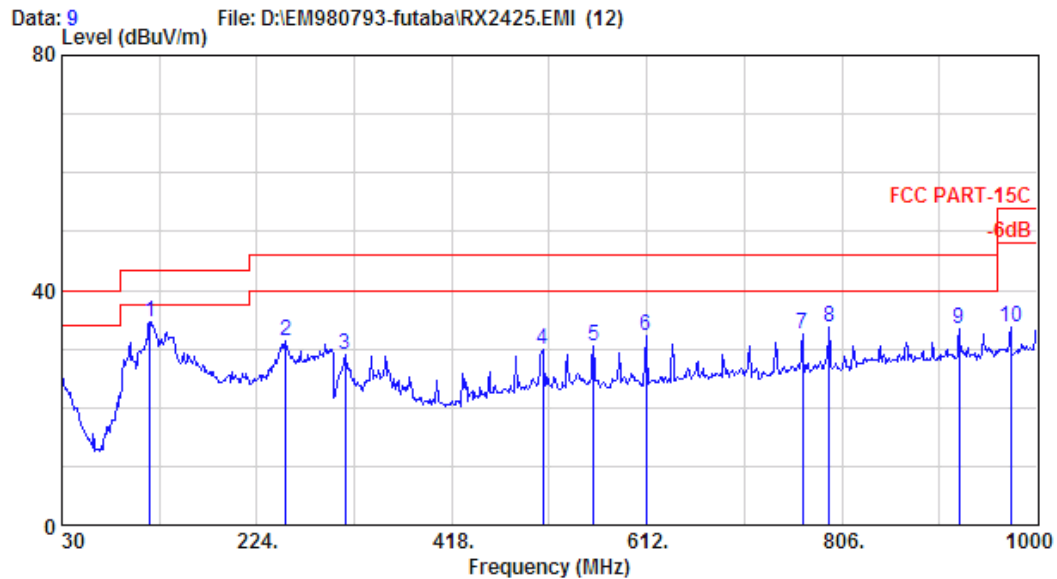
Site no. : site Data no. : 12
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
EUT : Radio Control M/N:T2PL
Power Rating : DC 6V
Test Mode : TX2447.5

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	119.240	19.02	2.30	6.65	27.97	43.50	15.53	
2	273.470	25.14	3.70	0.86	29.70	46.00	16.30	
3	532.460	19.64	7.00	2.47	29.11	46.00	16.89	
4	558.650	19.89	6.70	2.75	29.34	46.00	16.66	
5	611.030	21.41	6.30	5.98	33.69	46.00	12.31	
6	637.220	20.92	6.20	4.58	31.70	46.00	14.30	
7	687.660	23.26	6.50	-0.28	29.47	46.00	16.53	
8	740.040	22.38	6.64	1.59	30.61	46.00	15.39	
9	922.400	24.52	7.40	1.37	33.29	46.00	12.71	
10	948.590	25.88	7.50	0.64	34.02	46.00	11.98	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : site Data no. : 9
Dis. / Ant. : 3m VBA6106A(1264)2006 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
EUT : Radio Control M/N:T2PL
Power Rating : DC 6V
Test Mode : RX2425

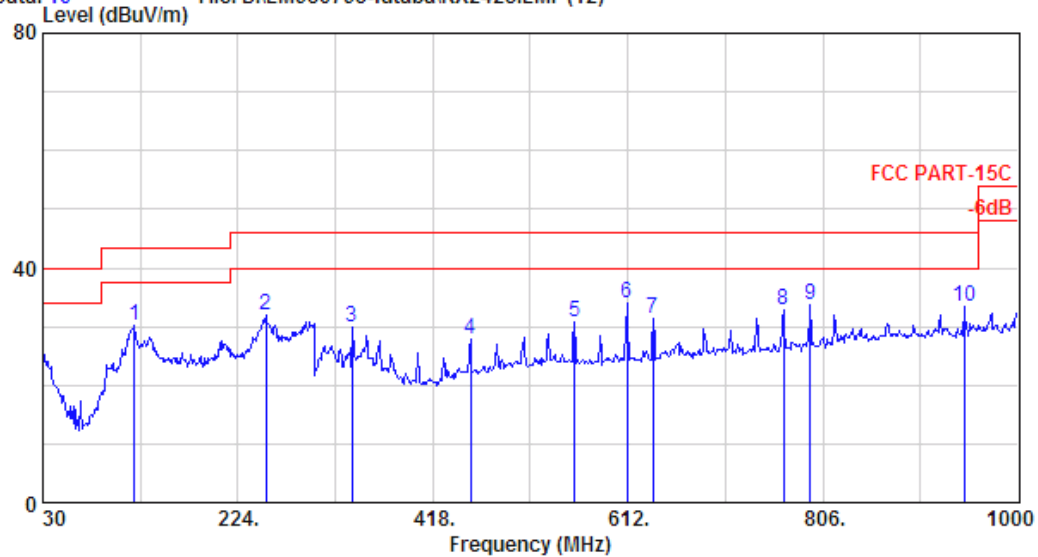
	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)	
1	117.300	18.85	2.30	13.33	34.49	43.50	9.01	
2	253.100	24.05	3.60	3.81	31.47	46.00	14.53	
3	312.270-500.00		4.00	524.92	28.92	46.00	17.08	
4	508.210-500.00		6.80	523.02	29.82	46.00	16.18	
5	558.650-500.00		6.70	523.80	30.50	46.00	15.50	
6	611.030-500.00		6.30	526.08	32.38	46.00	13.62	
7	767.200-500.00		6.80	525.73	32.53	46.00	13.47	
8	793.390-500.00		6.90	526.81	33.71	46.00	12.29	
9	922.400-500.00		7.40	525.89	33.29	46.00	12.71	
10	973.810-500.00		7.70	525.94	33.64	54.00	20.36	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 10 File: D:\EM980793-futaba\RX2425.EMI (12)



Site no. : site Data no. : 10
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
EUT : Radio Control M/N:T2PL
Power Rating : DC 6V
Test Mode : RX2425

		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBμV)	(dBμV/m)	(dBμV/m)	(dB)		
1	121.180	19.15	2.30	8.69	30.15	43.50	13.35	
2	252.130	23.99	3.59	4.41	31.98	46.00	14.02	
3	337.490	15.09	4.20	10.51	29.80	46.00	16.20	
4	455.830	17.75	5.50	4.52	27.77	46.00	18.23	
5	558.650	19.89	6.70	4.25	30.84	46.00	15.16	
6	611.030	21.41	6.30	6.36	34.07	46.00	11.93	
7	637.220	20.92	6.20	4.15	31.27	46.00	14.73	
8	767.200	23.86	6.80	2.29	32.94	46.00	13.06	
9	793.390	23.98	6.90	2.90	33.78	46.00	12.22	
10	946.650	25.76	7.50	0.17	33.43	46.00	12.57	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. Above 1GHz Frequency Range Measurement Results

Date of Test : Jul. 30, 2009 Temperature : 27°CEUT : Radio Control Humidity : 55%Test Mode : Transmit, Channel: 01 (Frequency: 2404.000MHz), Position: Stand

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak	2249.920	28.33	6.17	6.04	40.54	74.00	33.46
	2325.520	28.48	6.26	8.73	43.47	74.00	30.53
	4808.500	33.61	9.14	7.92	50.67	74.00	23.33
	4913.500	33.89	9.16	4.06	47.11	74.00	26.89
Average	2249.920	28.33	6.17	3.70	38.20	54.00	15.80
	2325.20	28.48	6.26	6.60	41.34	54.00	12.66
	4808.500	33.61	9.14	7.27	50.02	54.00	3.98
	4913.500	33.69	9.16	3.16	46.01	54.00	7.99

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak	2249.920	28.33	6.17	12.03	46.53	74.00	27.47
	2325.520	28.48	6.26	13.24	47.98	74.00	26.02
	4808.500	33.61	9.14	8.52	51.27	74.00	22.73
Average	2249.920	28.33	6.17	8.85	43.35	54.00	10.65
	2325.520	28.48	6.26	9.44	44.18	54.00	9.82
	4808.500	33.61	9.14	7.57	50.32	54.00	3.68

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jul. 30, 2009 Temperature : 27°CEUT : Radio Control Humidity : 55%Test Mode : Transmit, Channel: 15 (Frequency: 2425.000MHz), Position: Stand

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak	2296.960	28.42	6.23	3.07	37.72	74.00	36.28
	4850.500	33.71	9.15	6.58	49.44	74.00	24.56
	4895.500	33.85	9.16	6.01	49.02	74.00	24.98
Average	2296.960	28.42	6.23	0.59	35.24	54.00	18.76
	4850.500	33.71	9.15	5.69	48.55	54.00	5.45
	4895.500	33.85	9.16	4.83	47.84	54.00	6.16

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak	2283.520	28.40	6.21	7.52	42.13	74.00	31.87
	2347.360	28.51	6.29	9.50	44.30	74.00	29.70
	4850.500	33.71	9.15	9.12	51.98	74.00	22.02
Average	2283.520	28.40	6.21	5.34	39.95	54.00	14.05
	2347.360	28.51	6.29	6.78	41.58	54.00	12.42
	4850.500	33.71	9.15	8.56	51.42	54.00	2.58

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jul. 30, 2009 Temperature : 27°C

EUT : Radio Control Humidity : 55%

Test Mode : Transmit, Channel: 30 (Frequency: 2447.500MHz), Position: Stand

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak	2283.520	28.40	6.21	3.49	38.10	74.00	35.90
	2347.360	28.51	6.29	2.98	37.78	74.00	36.22
	4895.500	33.85	9.16	3.62	46.63	74.00	27.37
Average	2283.520	28.40	6.21	1.98	36.59	54.00	17.41
	2347.360	28.51	6.29	0.43	35.23	54.00	18.77
	4895.500	33.85	9.16	2.99	46.00	54.00	8.00

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak	2283.520	28.40	6.21	7.63	42.24	74.00	31.76
	2350.720	28.53	6.29	5.95	40.77	74.00	33.23
	4895.500	33.85	9.16	4.57	47.58	74.00	26.42
Average	2283.520	28.40	6.21	5.67	40.28	54.00	13.72
	2350.720	28.53	6.29	3.30	38.12	54.00	15.88
	4895.500	33.85	9.16	3.83	46.84	54.00	7.16

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

Date of Test : Jul. 30, 2009 Temperature : 27°CEUT : Radio Control Humidity : 55%Test Mode : Receive, Channel: 15 (Frequency: 2425.000MHz), Position: Stand

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak	1006.720	25.20	4.19	7.08	36.47	74.00	37.53
	1031.920	25.22	4.24	5.90	35.36	74.00	38.64
Average	1006.720	25.20	4.19	3.06	32.45	54.00	21.55
	1031.920	25.22	4.24	3.23	32.69	54.00	21.31

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak	1006.720	25.20	4.19	10.65	40.04	74.00	33.96
	1031.920	25.22	4.24	8.86	38.32	74.00	35.68
	1057.120	25.23	4.31	8.45	37.99	74.00	36.01
Average	1006.720	25.20	4.19	6.34	35.73	54.00	18.27
	1031.920	25.22	4.24	4.86	34.32	54.00	19.68
	1057.120	25.23	4.31	4.14	33.68	54.00	20.32

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emissions level were too low against the official limit and not report.

3.6.3. Restricted Bands Measurement Results

Date of Test : Jul. 30, 2009 Temperature : 27°C

EUT : Radio Control Humidity : 55%

Test Mode : Transmit, Channel: 01, Frequency: 2404.000MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2326.170	28.48	6.26	11.68	46.42	74.00	27.58
Average *	2325.840	28.48	6.26	0.91	35.65	54.00	18.35

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

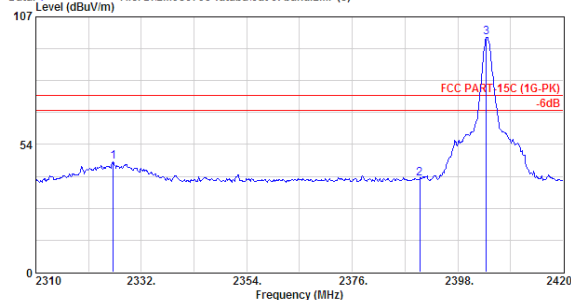


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 Email:ttmc@ttmc.com.tw



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 Email:ttmc@ttmc.com.tw

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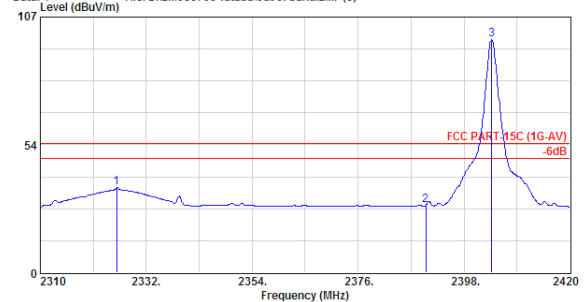


Site no. : site Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2326.170	28.48	6.26	11.68	46.42	74.00	27.58	Peak
2	2390.080	28.59	6.34	4.23	39.17	74.00	34.83	Peak
3	2403.940	28.62	6.36	63.52	98.50	74.00	-24.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 4 File: D:\EM980793-futaba\out of band.EMI (8)



Site no. : site Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2325.840	28.48	6.26	0.91	35.65	54.00	18.35	Average
2	2390.080	28.59	6.34	-6.73	28.20	54.00	25.80	Average
3	2403.720	28.62	6.36	62.61	97.59	54.00	-43.59	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jul. 30, 2009 Temperature : 27°C

EUT : Radio Control Humidity : 55%

Test Mode : Transmit, Channel: 01, Frequency: 2404.000MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2326.390	28.48	6.26	18.80	53.54	74.00	20.46
Average *	2325.840	28.48	6.26	4.35	39.09	54.00	14.91

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

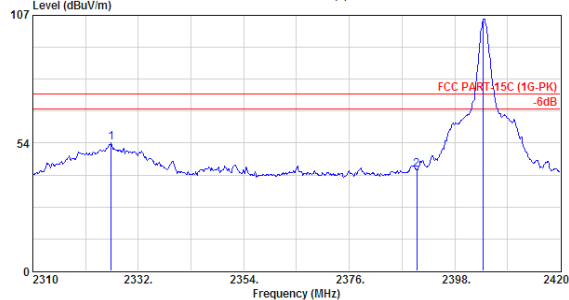


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 Email:ttmc@ttmc.com.tw



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 Email:ttmc@ttmc.com.tw

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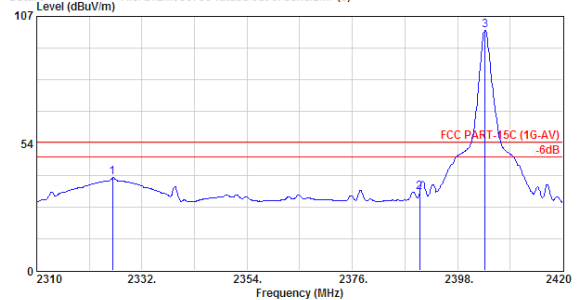


Site no. : site Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2326.390	28.48	6.26	18.80	53.54	74.00	20.46	Peak
2	2390.080	28.59	6.34	7.21	42.14	74.00	31.86	Peak
3	2403.940	28.62	6.36	70.52	105.50	74.00	-31.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 3 File: D:\EM980793-futaba\out of band.EMI (8)



Site no. : site Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2404

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2325.840	28.48	6.26	4.35	39.09	54.00	14.91	Average
2	2390.080	28.59	6.34	-1.94	33.00	54.00	21.00	Average
3	2403.720	28.62	6.36	66.28	101.26	54.00	-47.26	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jul. 30, 2009 Temperature : 27°C

EUT : Radio Control Humidity : 55%

Test Mode : Transmit, Channel: 30, Frequency: 2447.500MHz

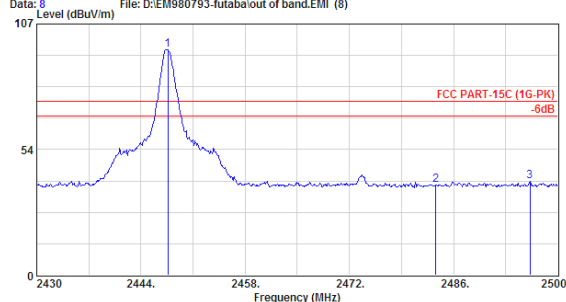
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2496.290	28.80	6.46	4.53	39.79	74.00	34.21
Average *	2486.280	28.77	6.45	-6.93	28.29	54.00	25.71

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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Data: 8 File: D:\EM980793-futaba\out of band.EMI (8)



Site no. : site Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2447.5

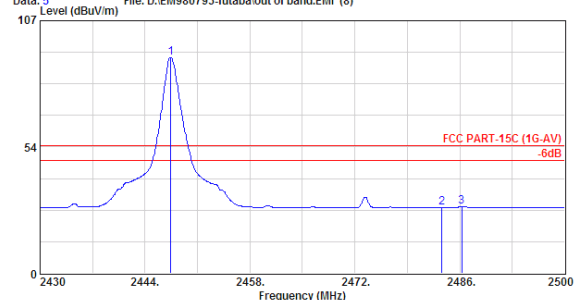
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2447.640	28.71	6.41	61.07	96.19	74.00	-22.19	Peak
2	2483.620	28.77	6.45	3.18	38.40	74.00	35.60	Peak
3	2496.290	28.80	6.46	4.53	39.79	74.00	34.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 5 File: D:\EM980793-futaba\out of band.EMI (8)



Site no. : site Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2447.5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2447.430	28.71	6.41	56.36	91.48	54.00	-37.48	Average
2	2483.620	28.77	6.45	-7.26	27.97	54.00	26.03	Average
3	2486.280	28.77	6.45	-6.93	28.30	54.00	25.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Date of Test : Jul. 30, 2009 Temperature : 27°C

EUT : Radio Control Humidity : 55%

Test Mode : Transmit, Channel: 30, Frequency: 2447.500MHz

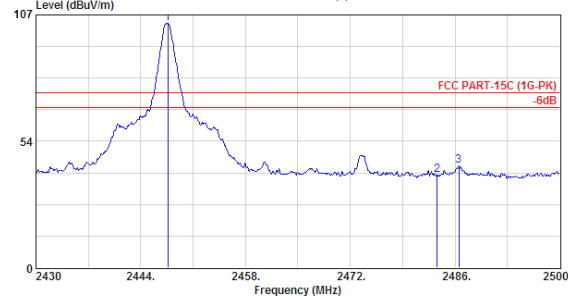
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2486.490	28.77	6.45	7.86	43.08	74.00	30.92
Average *	2486.280	28.77	6.45	-4.24	30.98	54.00	23.02

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



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 Email: ttemc@ttemc.com.tw

Data: 7 File: D:\EM980793-futaba\out of band.EMI (8)



Site no. : site Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2447.5

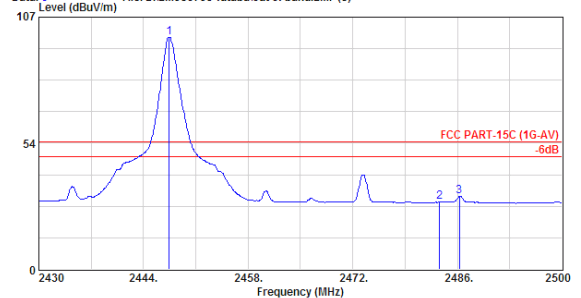
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2447.640	28.71	6.41	68.29	103.41	74.00	-29.41	Peak
2	2483.620	28.77	6.45	3.79	39.01	74.00	34.99	Peak
3	2486.490	28.77	6.45	7.86	43.08	74.00	30.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 6 File: D:\EM980793-futaba\out of band.EMI (8)



Site no. : site Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : 8564EC 27°C/55% Engineer : Jarwei Wang
 EUT : Radio Control M/N:T2PL
 Power Rating : DC 6V
 Test Mode : TX2447.5

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2447.430	28.71	6.41	63.39	98.51	54.00	-44.51	Average
2	2483.620	28.77	6.45	-6.78	28.45	54.00	25.55	Average
3	2486.280	28.77	6.45	-4.24	30.99	54.00	23.01	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

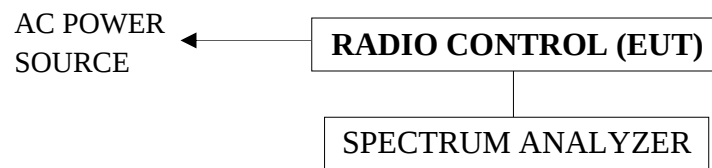
4. 20dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the 20dB bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

4.4. Operating Condition of EUT

- 4.4.1. Set up the EUT and simulator as shown on 4.2.
- 4.4.2. To turn on the power of all equipment.
- 4.4.3. EUT (Radio Control) was on transmitting frequency function during the testing.

4.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 2.7kHz RBW and 2.7kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

RBW=1% of the 20dB bandwidth

VBW=RBW

4.6. Test Results

PASSED. All the test results are attached in next pages.

Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

No.	Channel	Test Frequency	20dB Bandwidth	2/3 (20dB Bandwidth)
1.	01	2404.000MHz	274kHz	182.667kHz
2.	15	2425.000MHz	277kHz	184.667kHz
3.	30	2447.500MHz	277kHz	184.667kHz

The maximum two-thirds of the 20dB bandwidth shall be at maximum 184.667kHz.

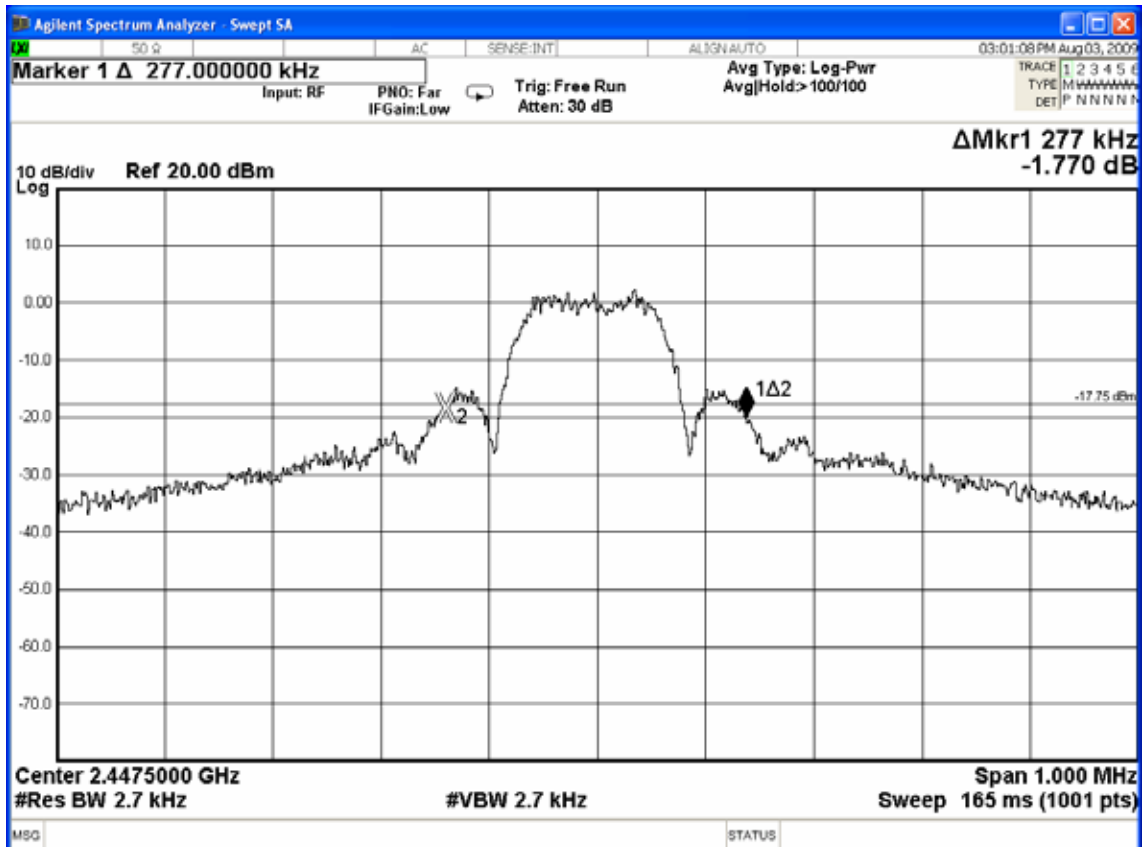
4.6.1. Channel 01, Frequency: 2404.000MHz



4.6.2. Channel 15, Frequency: 2425.000MHz



4.6.3. Channel 30, Frequency: 2447.500MHz



5. CARRIER FREQUENCY SEPARATION MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the carrier frequency separation measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

5.2. Block Diagram of Test Setup

The same as section.4.2.

5.3. Specification Limits (§15.247(a)(1))

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

5.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

5.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The channel separation was measure by spectrum analyzer with 39kHz RBW and 39kHz VBW. The video bandwidth not to be smaller than resolution bandwidth, the peak was mark on adjacent bandwidth, the between of peak is carrier frequency separation.

RBW=1% Span

VBW=RBW

5.6. Test Results

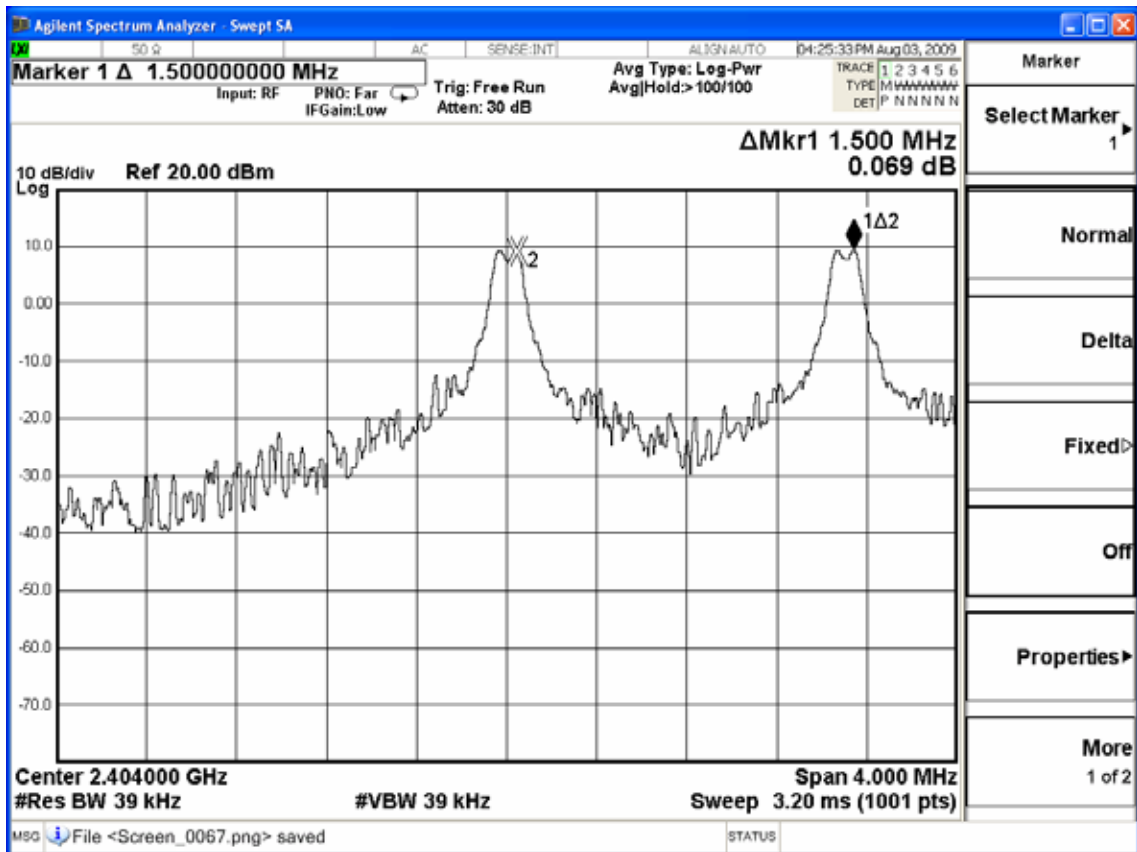
PASSED. All the test results are attached in next pages.

Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

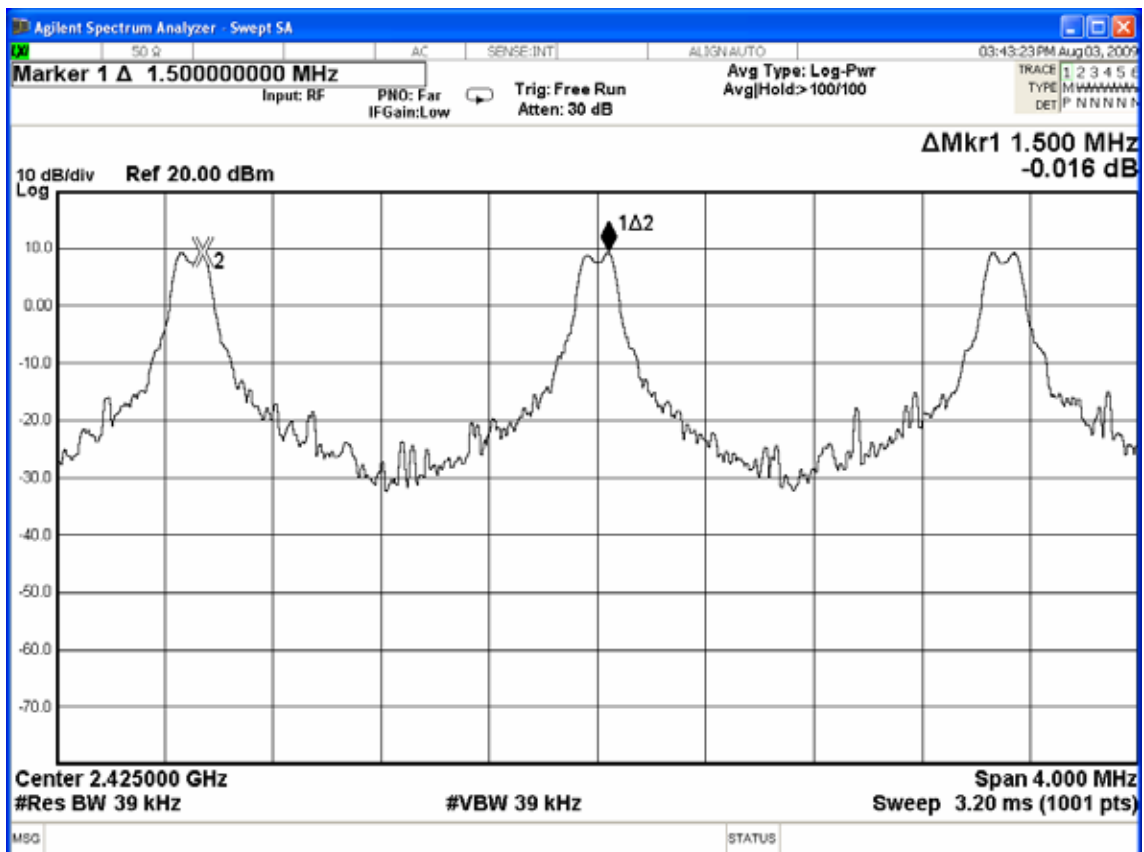
The minimum adjacent channel carrier frequency separation: 1.500MHz °

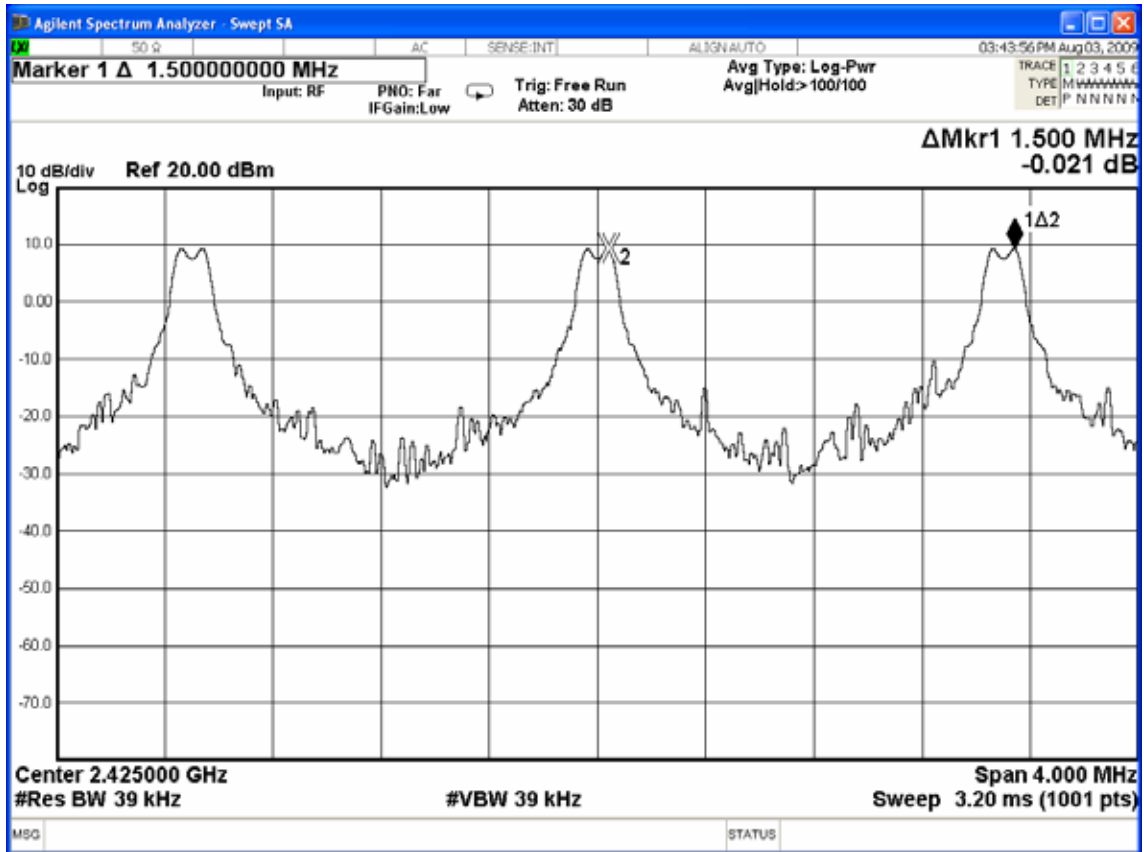
[Above values have met the requirement as specified in section 4.3: frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.]

5.6.1. Channel 01, Test Frequency: 2404.000MHz

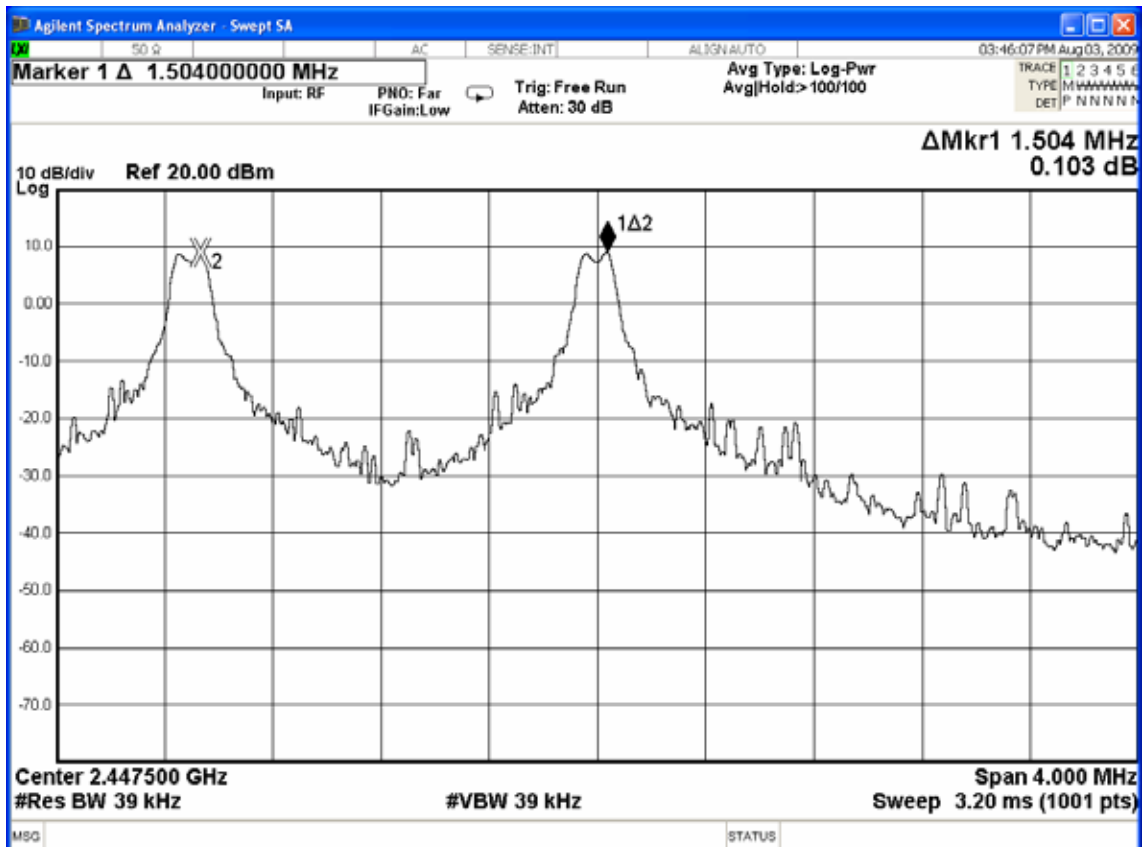


5.6.2. Channel 15, Test Frequency: 2425.000MHz





5.6.3. Channel 15, Test Frequency: 2447.500MHz



6. TIME OF OCCUPANCY MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the time of occupancy measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

6.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

6.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1MHz RBW and 1MHz VBW. $VBW \geq RBW$; Span=zero span.

Centered on a hopping channel sweep=as necessary to capture the entire dwell time per hopping channel ; Detector function=peak ; Trace=Max hold

6.6. Test Results

PASSED. All the test results are attached in next pages.

Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

Test Date : Aug. 04, 2009 Temperature : 23 °C Humidity : 49 %

Duty cycle: 30 channels*0.4 seconds = 12 seconds

Test Frequency: 2404.000MHz

For per second of 5 channels appearance, the longest time of occupancy for each of 12 seconds is:

5 channels*12 seconds* 5.970ms = 358.20ms (<400ms)

Test Frequency: 2425.000MHz

For per second of 5 channels appearance, the longest time of occupancy for each of 12 seconds is:

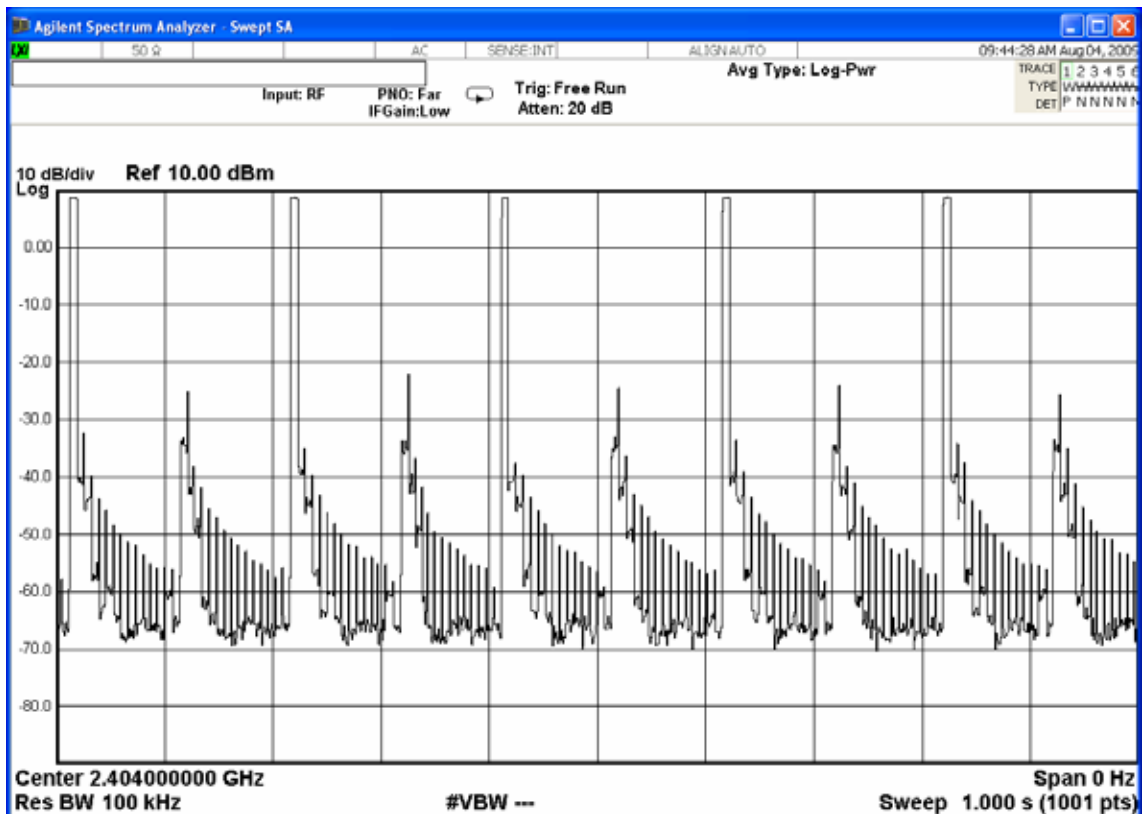
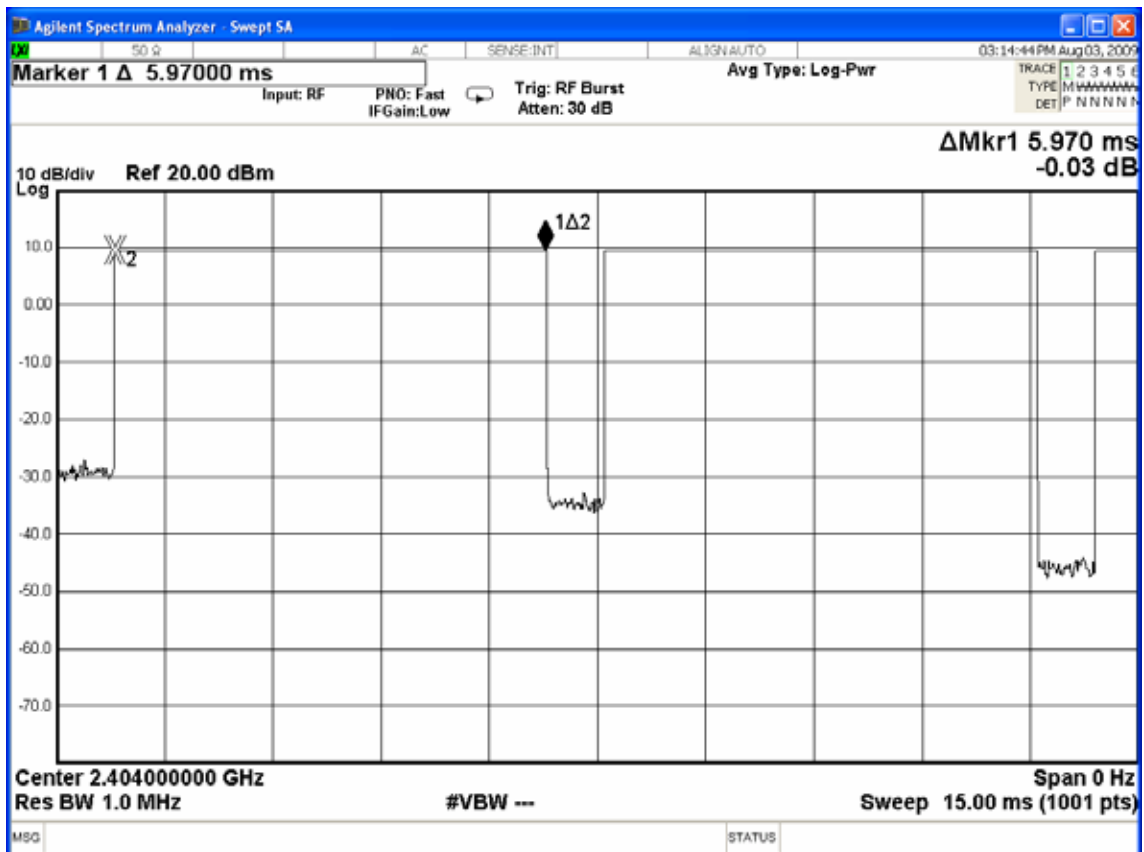
5 channels*12 seconds* 5.970ms = 358.20ms (<400ms)

Test Frequency: 2447.500MHz

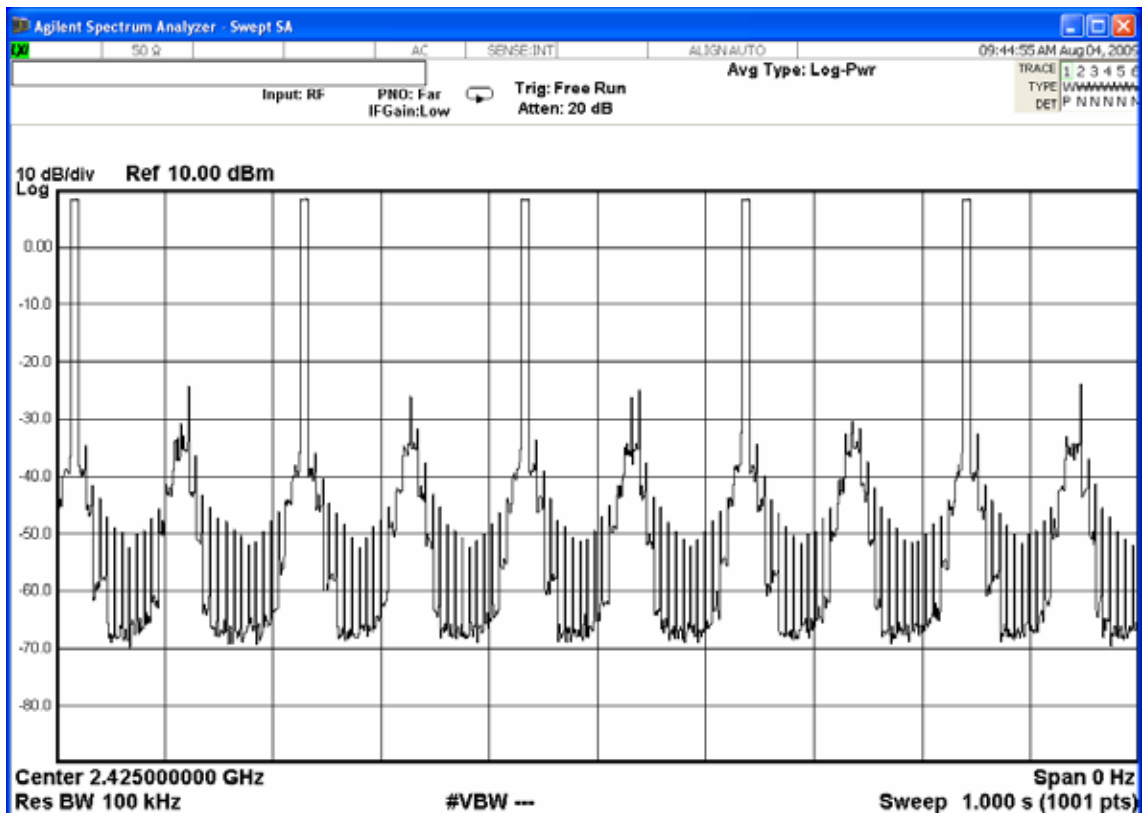
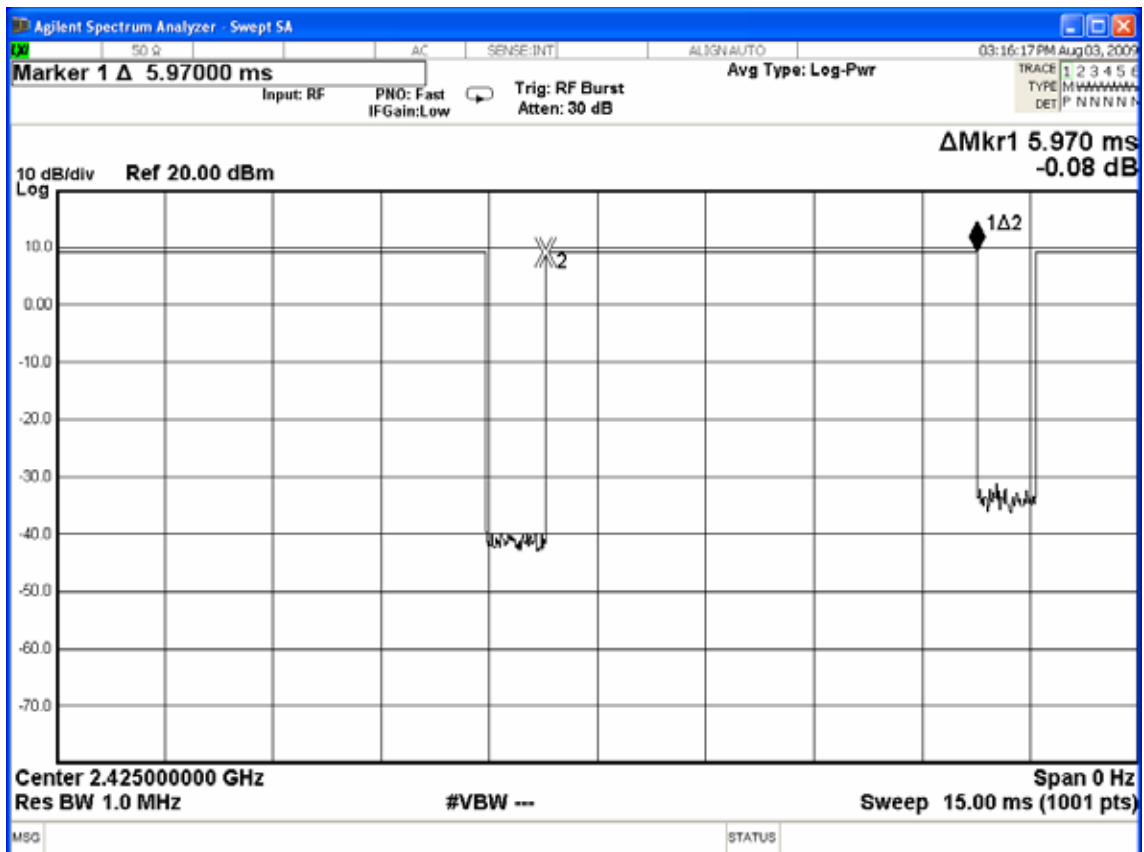
For per second of 5 channels appearance, the longest time of occupancy for each of 12 seconds is:

5 channels*12 seconds* 5.970ms = 358.20ms (<400ms)

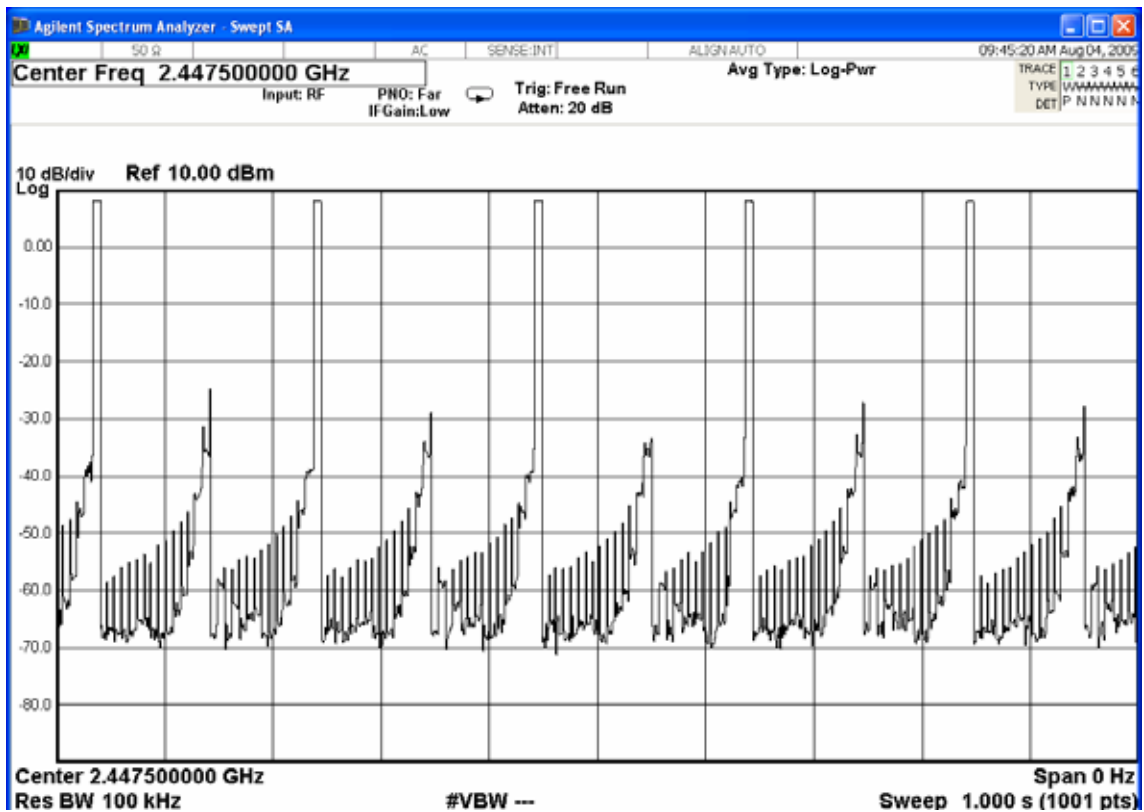
6.6.1. Channel 01, Test Frequency: 2404.000MHz



6.6.2. Channel 15, Test Frequency: 2425.000MHz



6.6.3. Channel 30, Test Frequency: 2447.500MHz



7. NUMBER OF HOPPING CHANNELS MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the number of hopping channels measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems which use fewer than 20 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels.

7.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

7.5. Test Procedure (DA 00-705)

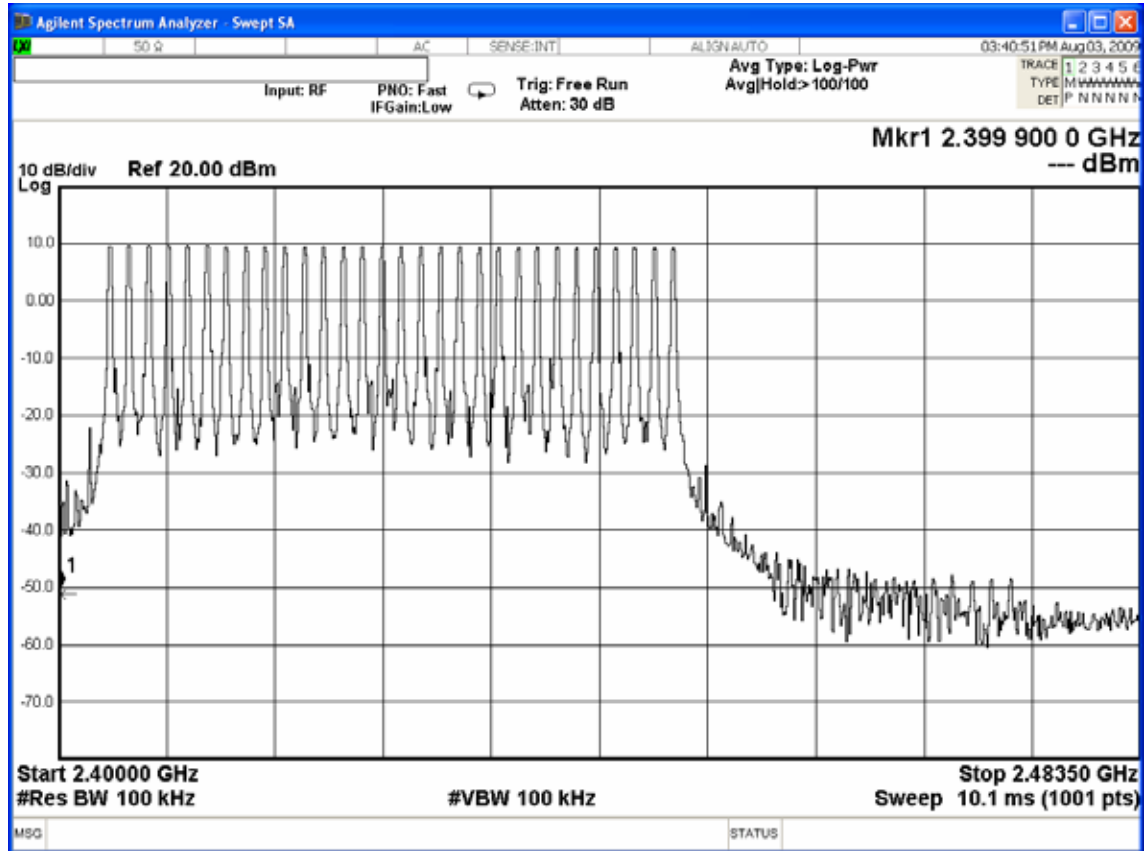
The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. Sweep=Auto ; Detector function=peak ; Trace=Max hold

7.6. Test Results

PASSED. All the test results are attached in next page.

Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

The number hopping channel is 30.



8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 19, 09'	Feb. 18, 10'
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 19, 09'	Feb. 18, 10'

8.2. Block Diagram of Test Setup



8.3. Specification Limits (§15.247(b)-(1))

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

8.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in 4.4 except the test set up replaced by section 8.2.

8.5. Test Procedure (DA 00-705)

The transmitter output was connected to the power sensor and record the reading of power meter.

8.6. Test Results

PASSED. All the test results are listed below.

Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

No.	Channel	Test Frequency	Peak Output Power	Limit
1.	01	2404.000MHz	16.64dBm	21dBm
2.	15	2425.000MHz	16.52dBm	21dBm
3.	30	2447.500MHz	16.37dBm	21dBm

9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

The following test equipment was used during the emission limitations measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

9.2. Block Diagram of Test Setup

The same as section.4.2.

9.3. Specification Limits (§15.247(c))

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in 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)).(※ This test result attaching to §3.6.3)

9.4. Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

9.5. Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with frequency range from 30MHz to 25GHz.

9.6. Test Results

PASSED. All the test results are attached in next pages.

Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

1. 2404.000MHz: During 30MHz~25GHz bandwidth. In the 2.252GHz, the -49.467dBm is max value that is lower than 20dB of primary channel.
2. 2425.000MHz: During 30MHz~25GHz bandwidth. In the 2.277GHz, the -53.788dBm is max value that is lower than 20dB of primary channel.
3. 2447.500MHz: During 30MHz~25GHz bandwidth. In the 2.277GHz, the -54.343dBm is max value that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

9.6.1. Channel 01, Frequency: 2404.000MHz



9.6.2. Channel 15, Frequency: 2425.000MHz



9.6.3. Channel 30, Frequency: 2447.500MHz



10.BAND EDGES MEASUREMENT

10.1.Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9020A	MY48011382	Sep. 22, 08'	Sep. 21, 09'

10.2.Block Diagram of Test Setup

The same as section.4.2.

10.3.Specification Limits (§15.247(c))

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in 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)). (※ This test result attaching to §3.6.3)

10.4.Operating Condition of EUT

Same as carrier frequency separation measurement which was listed in section 4.4.

10.5.Test Procedure (DA 00-705)

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

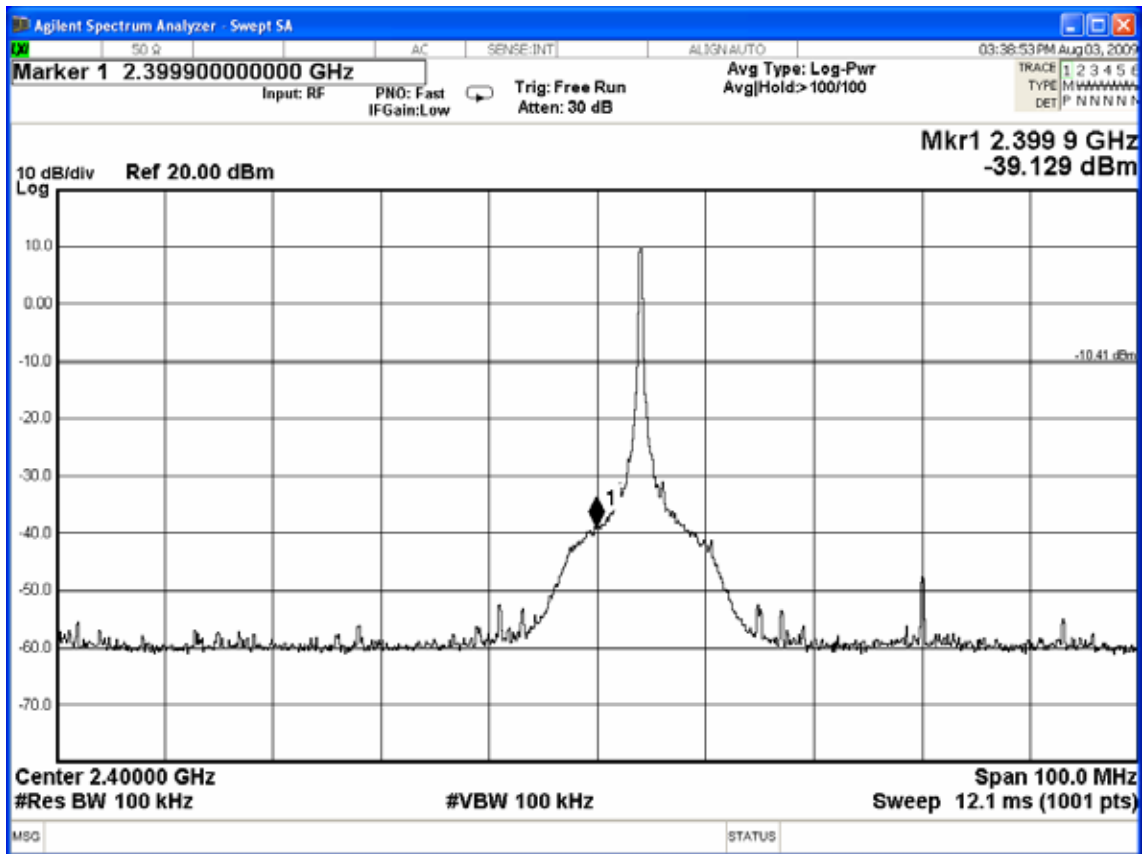
10.6.Test Results

PASSED. The testing data was attached in the next pages.

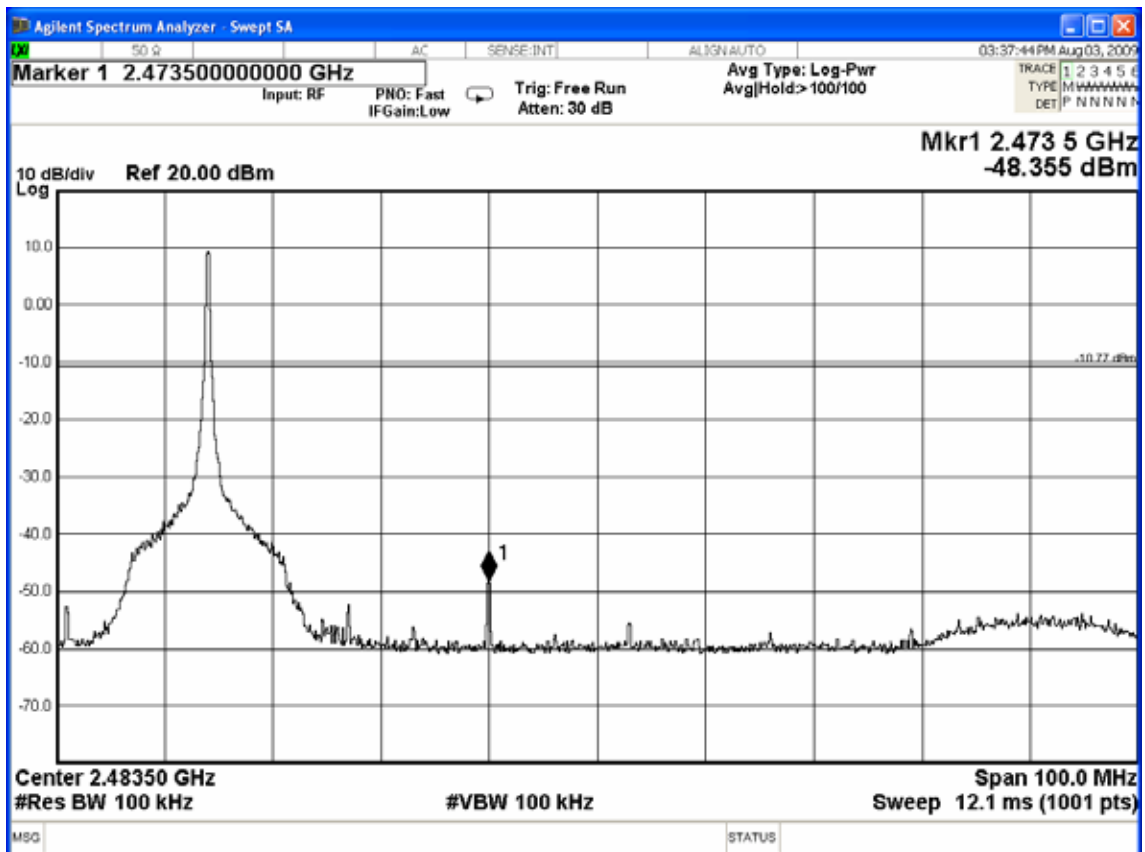
Test Date : Aug. 03, 2009 Temperature : 23 °C Humidity : 49 %

1. Upper Band edge : The highest emission level is – 39.129dBm on 2.3999GHz ◦
2. Below Band edge: The highest emission level is – 48.355dBm on 2.4735GHz ◦

10.6.1. Below Band edge



10.6.2. Upper Band edge



11.DEVIATION TO TEST SPECIFICATIONS

【NONE】

12. PHOTOGRAPHS

12.1. Photos of Radiated Measurement at Semi-Anechoic Chamber

Frequency Range 30MHz~1GHz



Frequency Range Above 1GHz



12.2.Photo of 20dB Bandwidth Measurement



12.3.Photo of Carrier Frequency Separation Measurement



12.4.Photo of Time of Occupancy Measurement



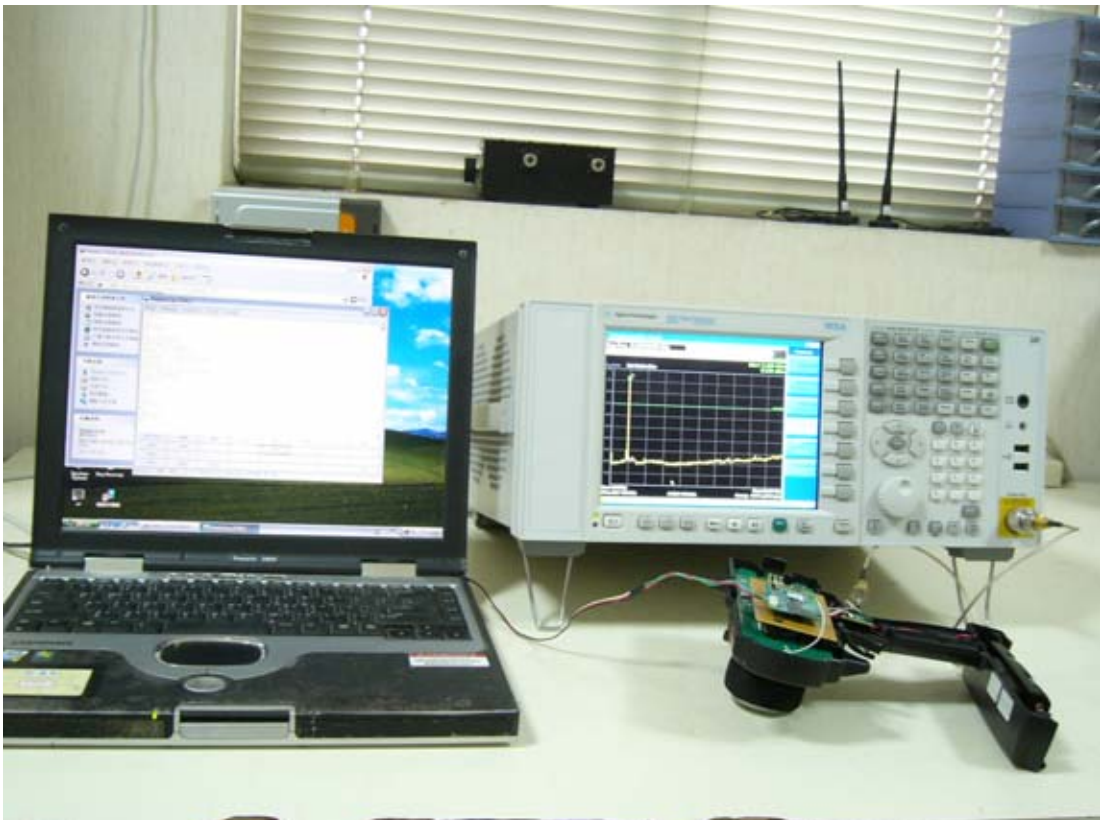
12.5.Photo of Number of Hopping Channel Measurement



12.6.Photo of Maximum Peak Output Power Measurement



12.7.Photo of Emission Limitation Measurement



12.8.Photo of Band Edges Measurement



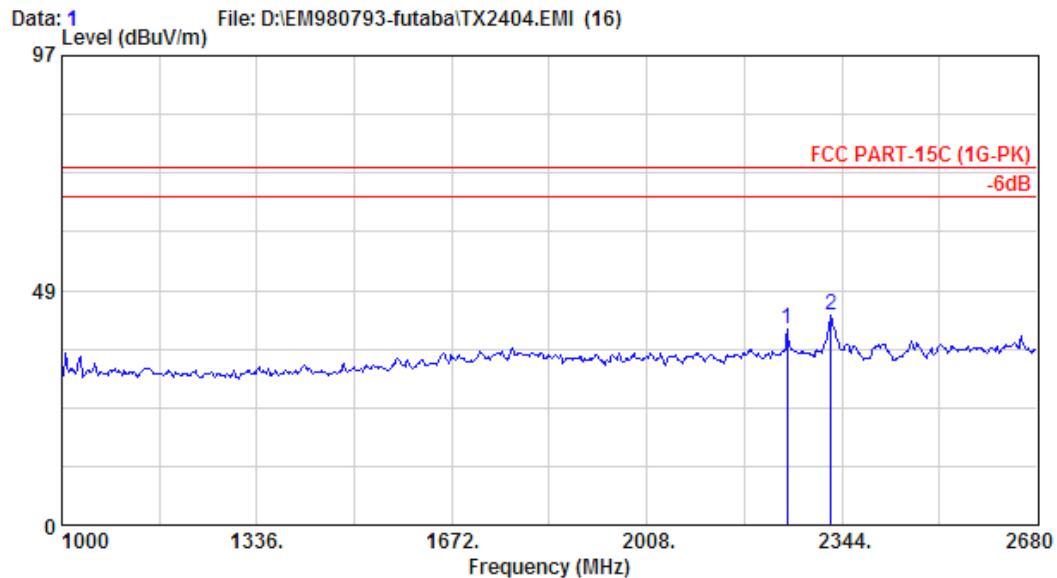
APPENDIX I

(Radiated Test Data for frequency rang above
1GHz at Semi-Anechoic Chamber)

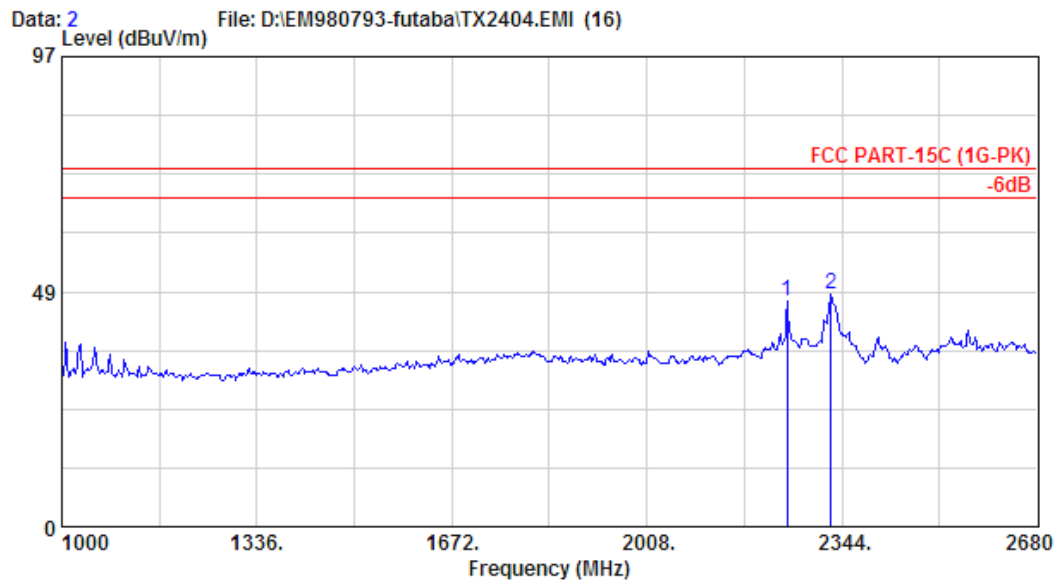
Total Pages: 26 Pages



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Site no.	: site	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		

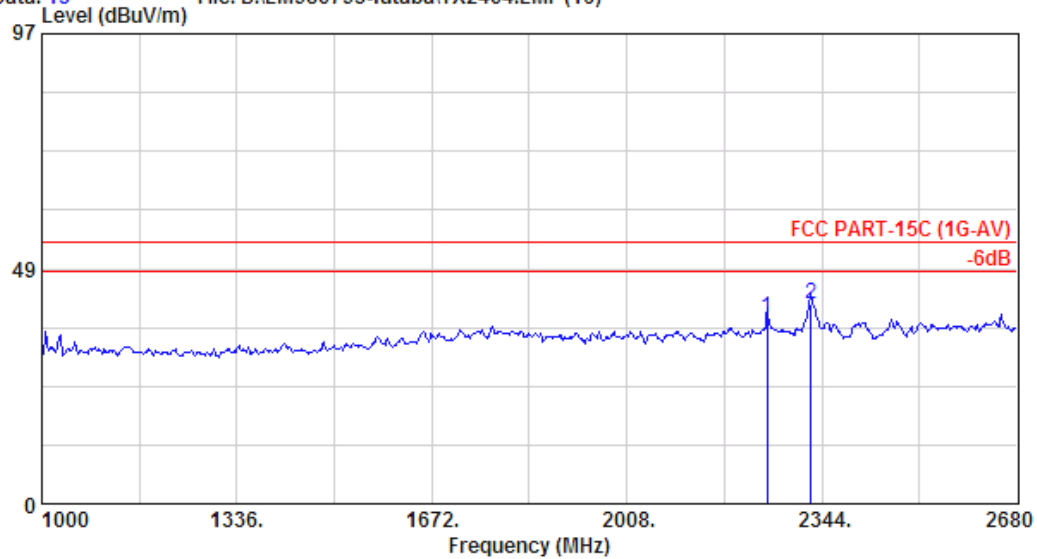


Site no.	: site	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



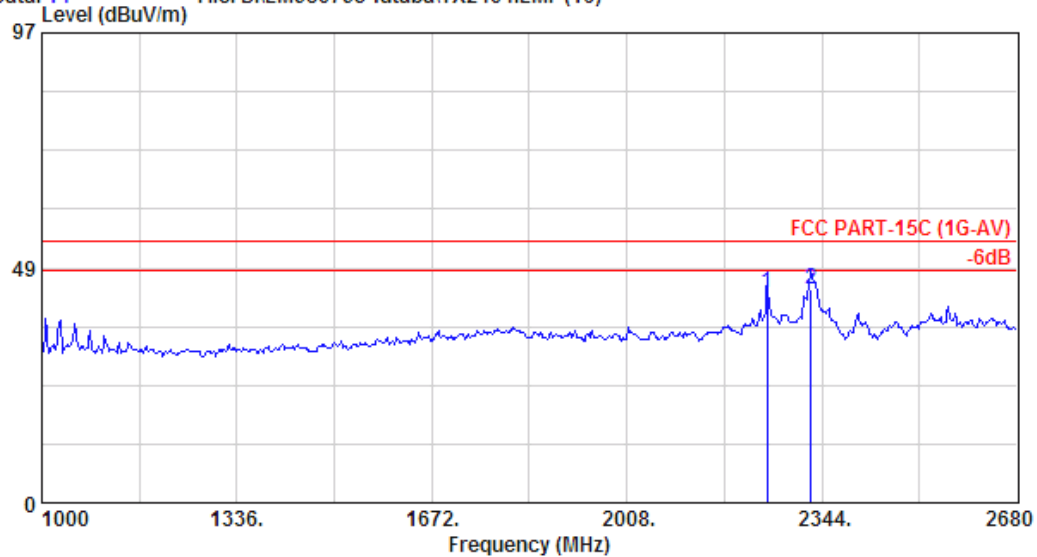
AUDIX TECHNOLOGY Corp. EMC Laboratory
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County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 13 File: D:\EM980793-futaba\TX2404.EMI (16)



Site no.	: site	Data no.	: 13
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		

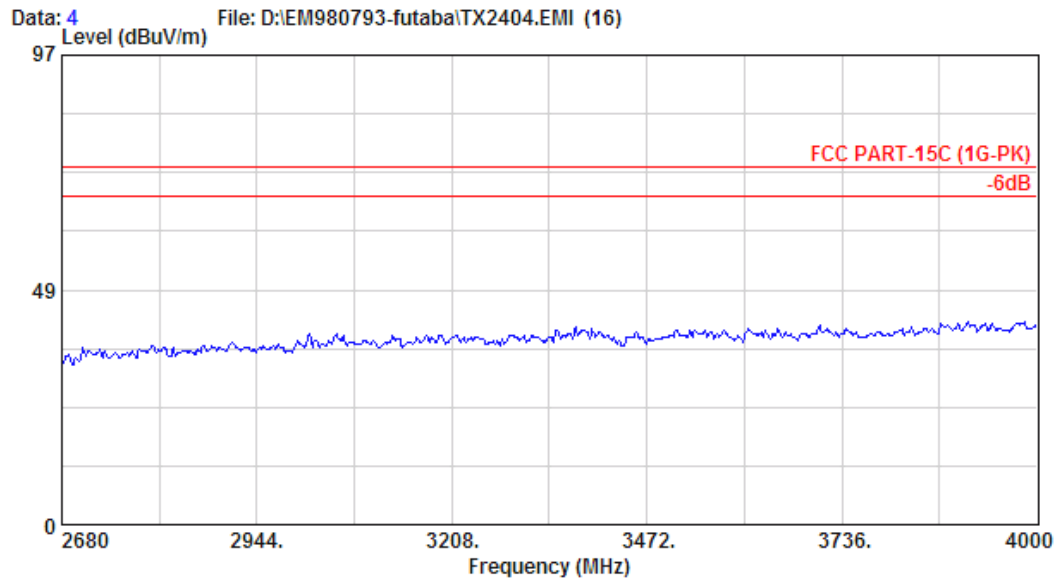
Data: 14 File: D:\EM980793-futaba\TX2404.EMI (16)



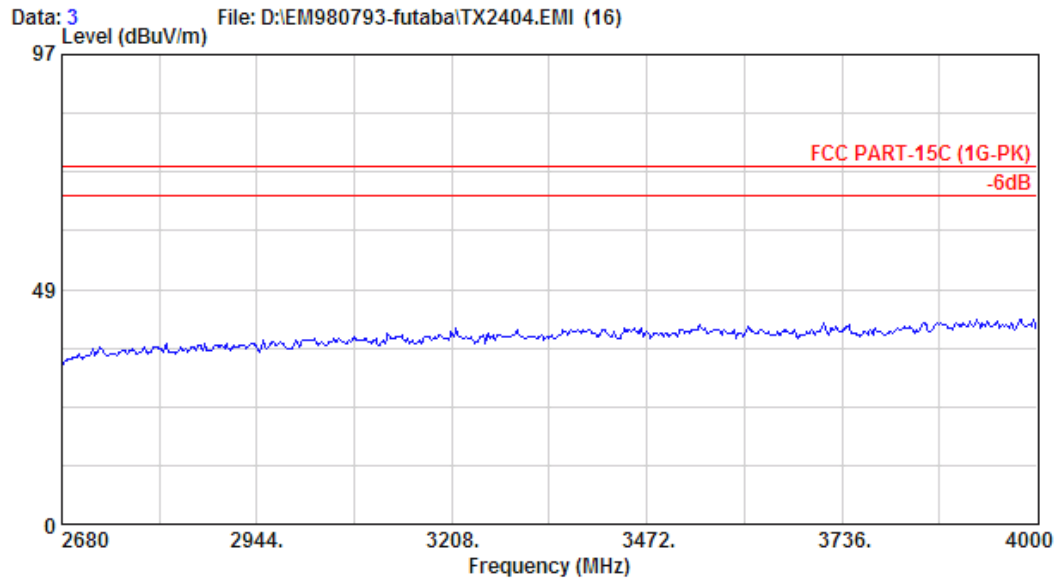
Site no.	: site	Data no.	: 14
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



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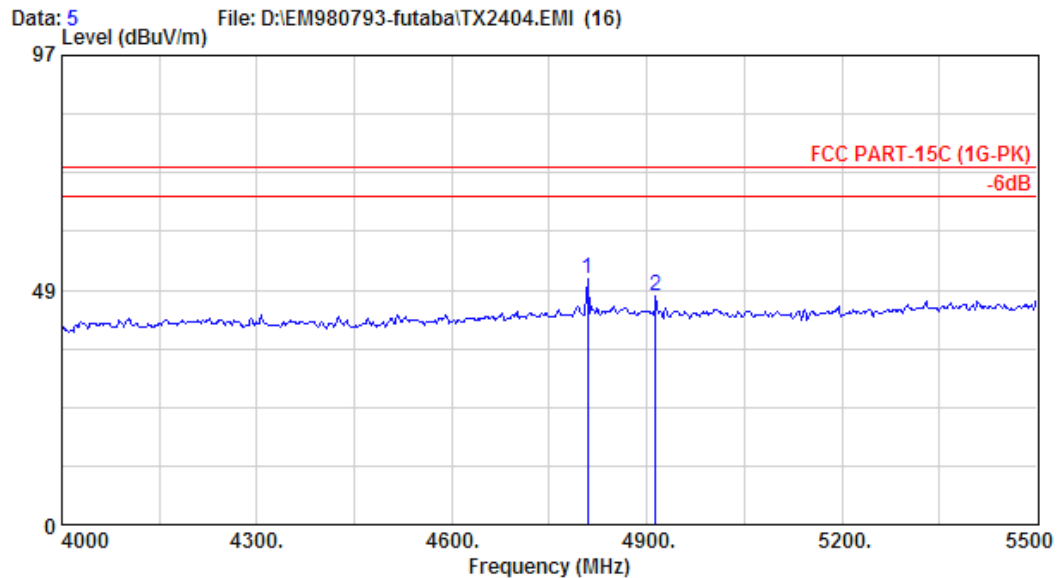
Site no.	: site	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



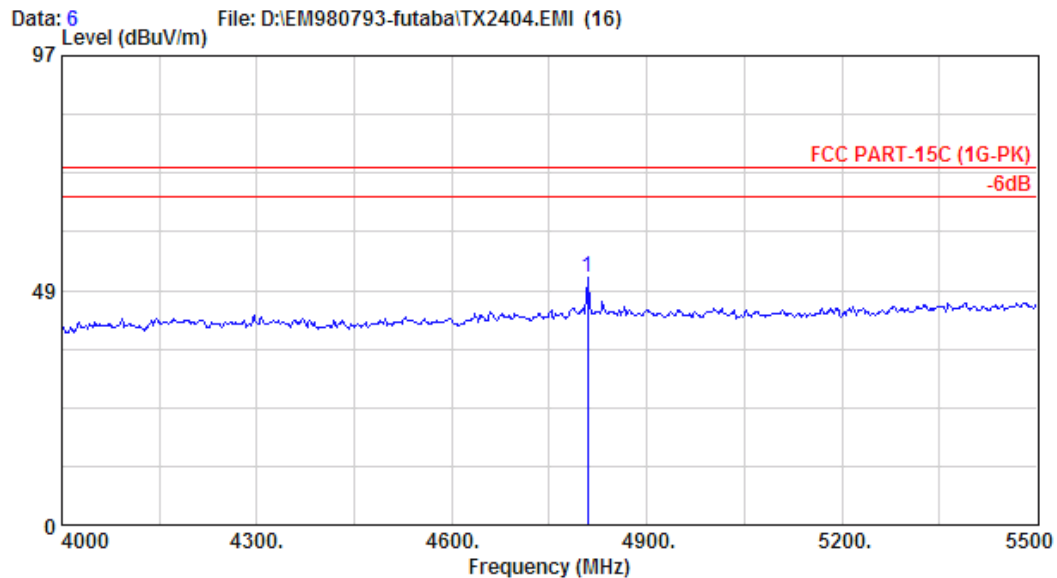
Site no.	: site	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



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Site no.	: site	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		

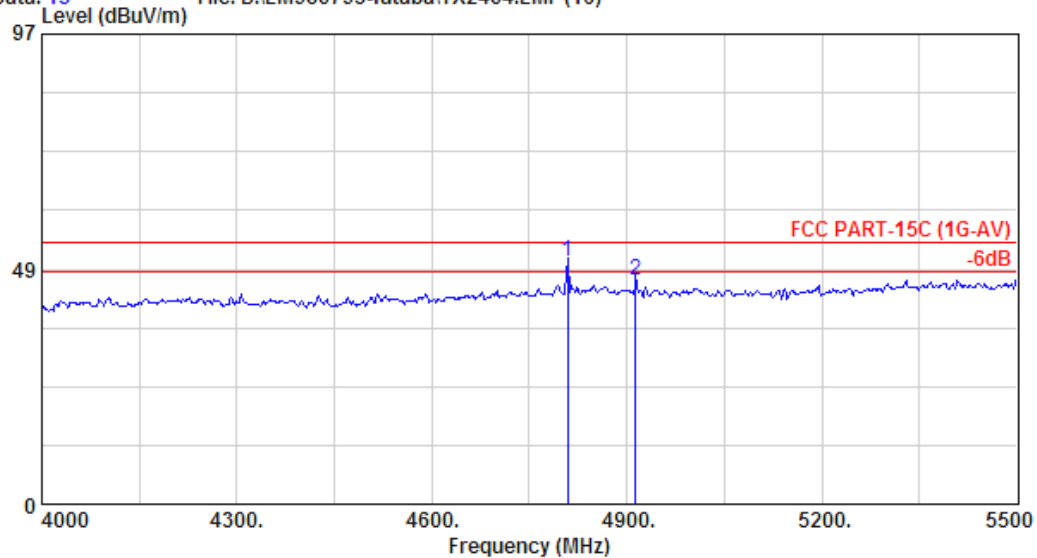


Site no.	: site	Data no.	: 6
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



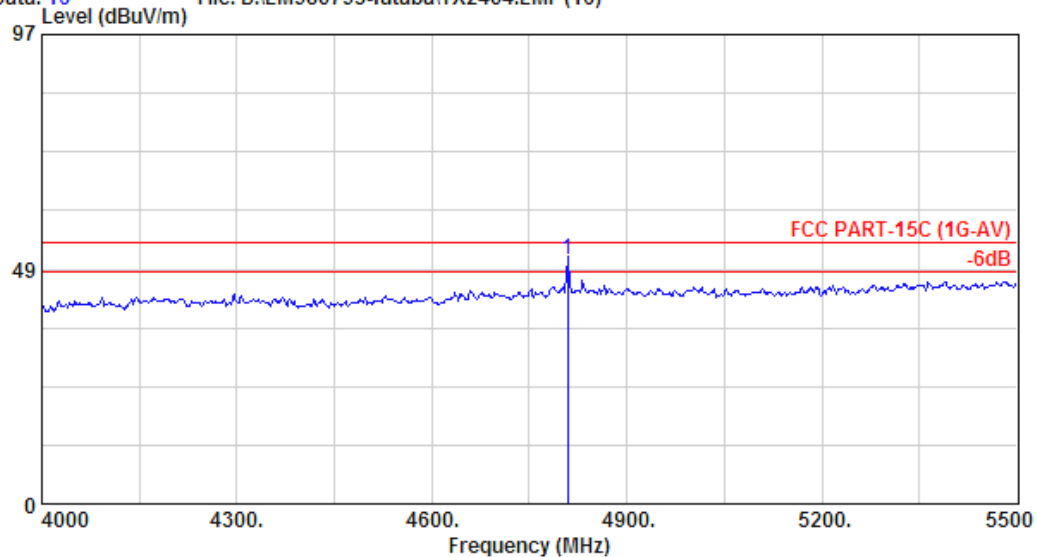
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 Email:ttemc@ttemc.com.tw

Data: 15 File: D:\EM980793-futaba\TX2404.EMI (16)



Site no.	: site	Data no.	: 15
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		

Data: 16 File: D:\EM980793-futaba\TX2404.EMI (16)

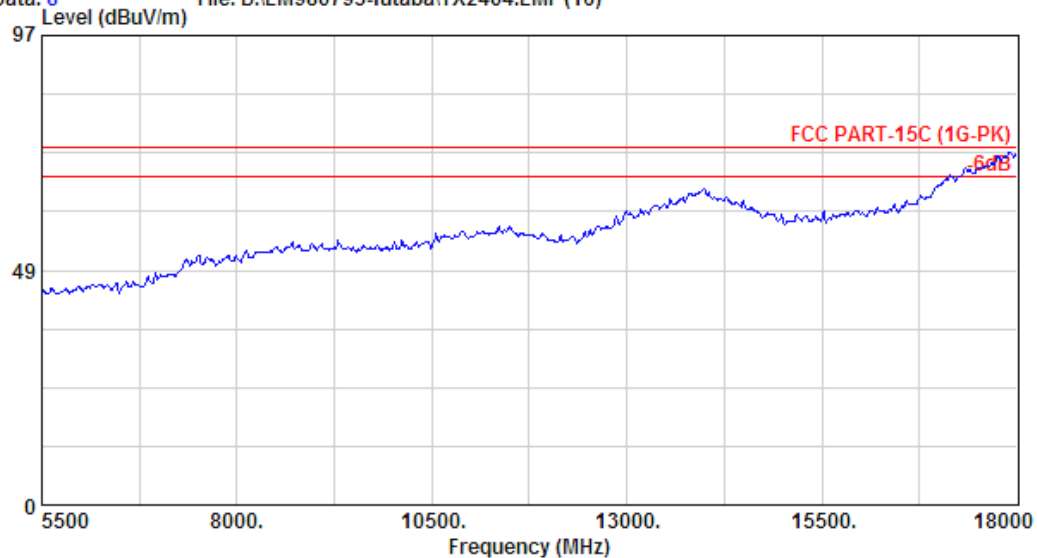


Site no.	: site	Data no.	: 16
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



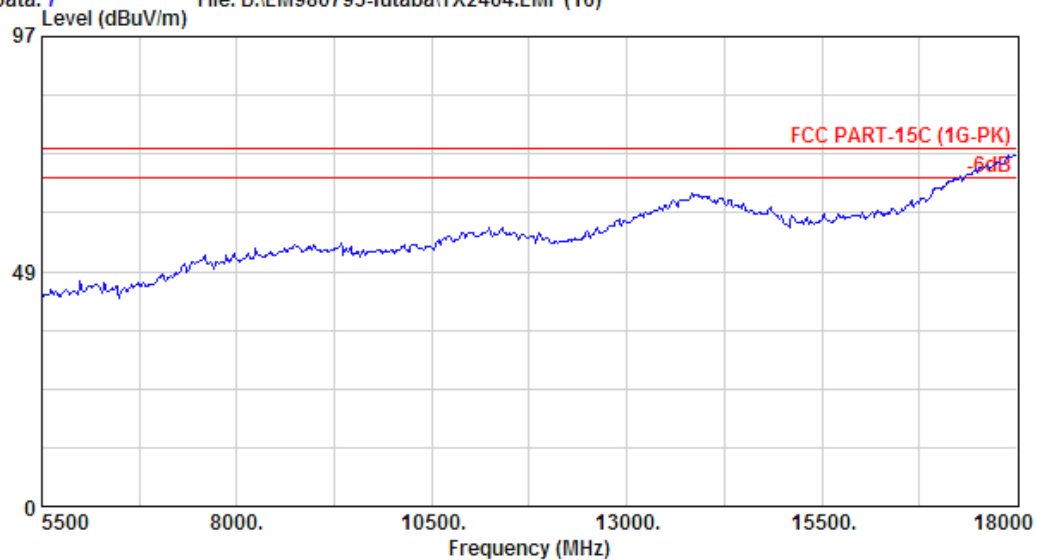
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Data: 8 File: D:\EM980793-futaba\TX2404.EMI (16)



Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		

Data: 7 File: D:\EM980793-futaba\TX2404.EMI (16)

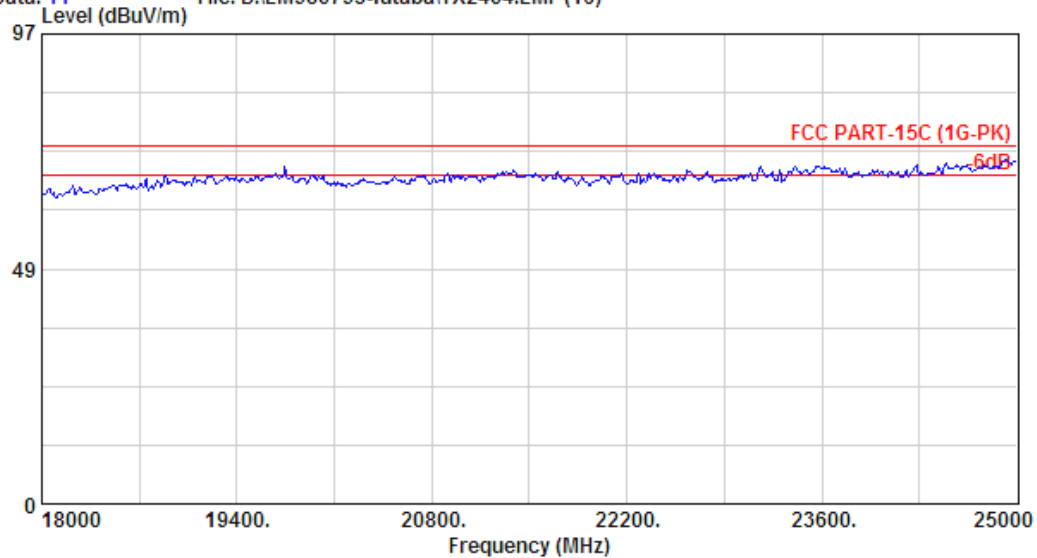


Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



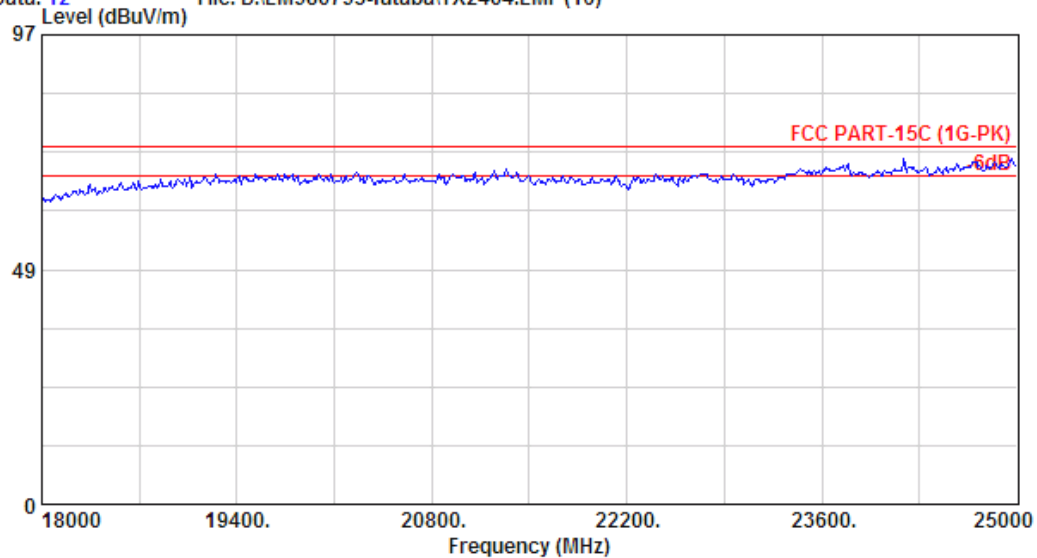
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Data: 11 File: D:\EM980793-futaba\TX2404.EMI (16)



Site no.	: site	Data no.	: 11
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		

Data: 12 File: D:\EM980793-futaba\TX2404.EMI (16)

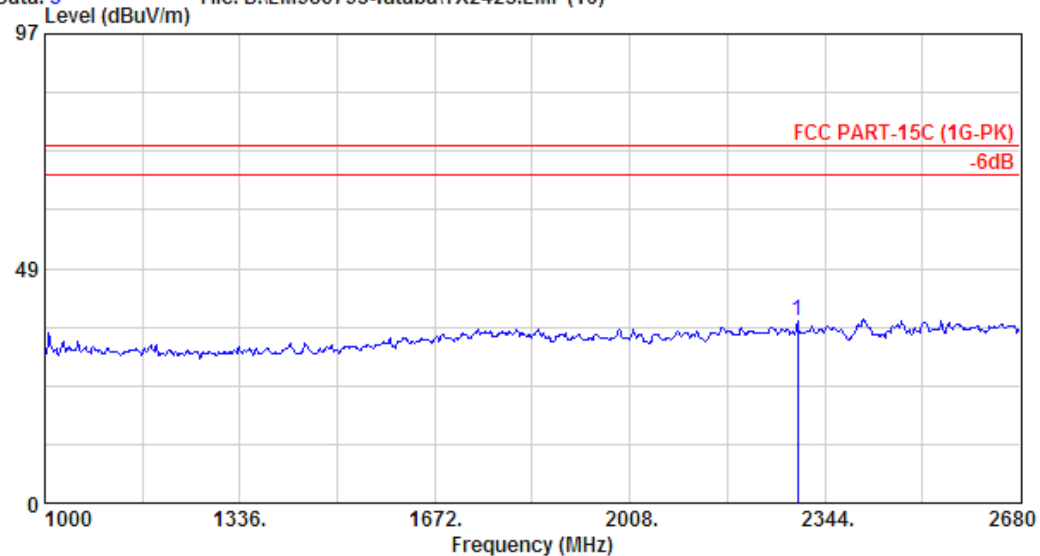


Site no.	: site	Data no.	: 12
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2404		



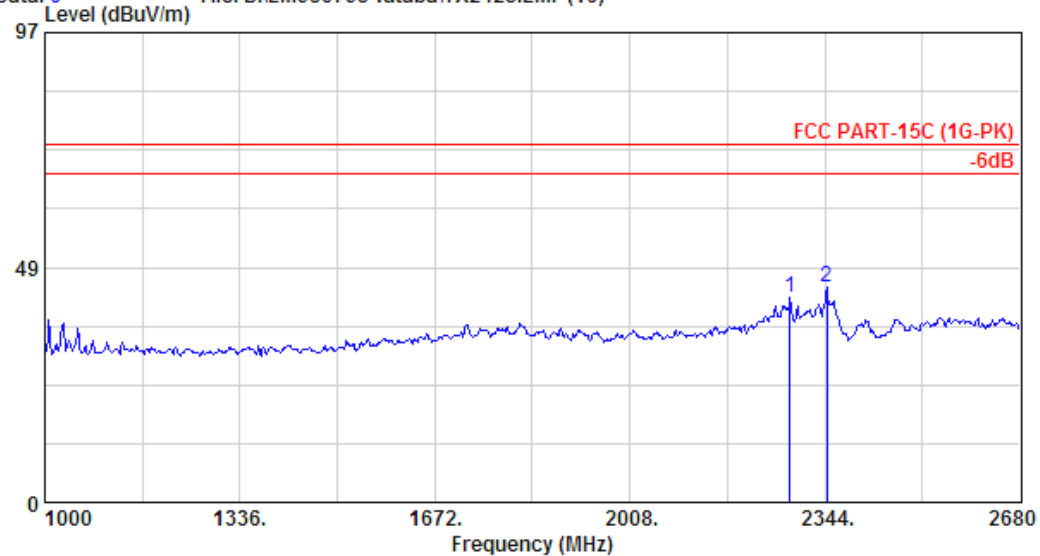
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Data: 5 File: D:\EM980793-futaba\TX2425.EMI (16)



Site no.	: site	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		

Data: 6 File: D:\EM980793-futaba\TX2425.EMI (16)

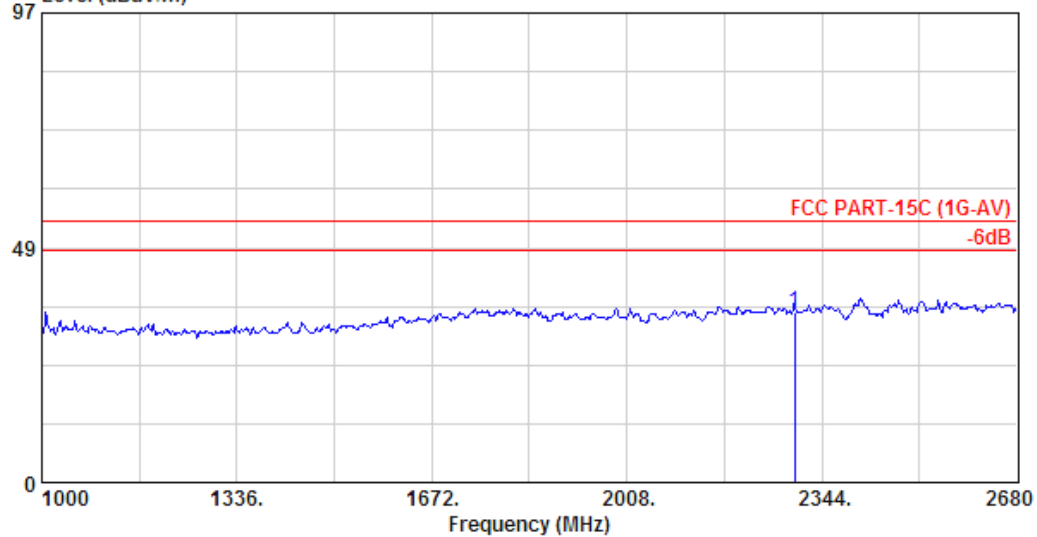


Site no.	: site	Data no.	: 6
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



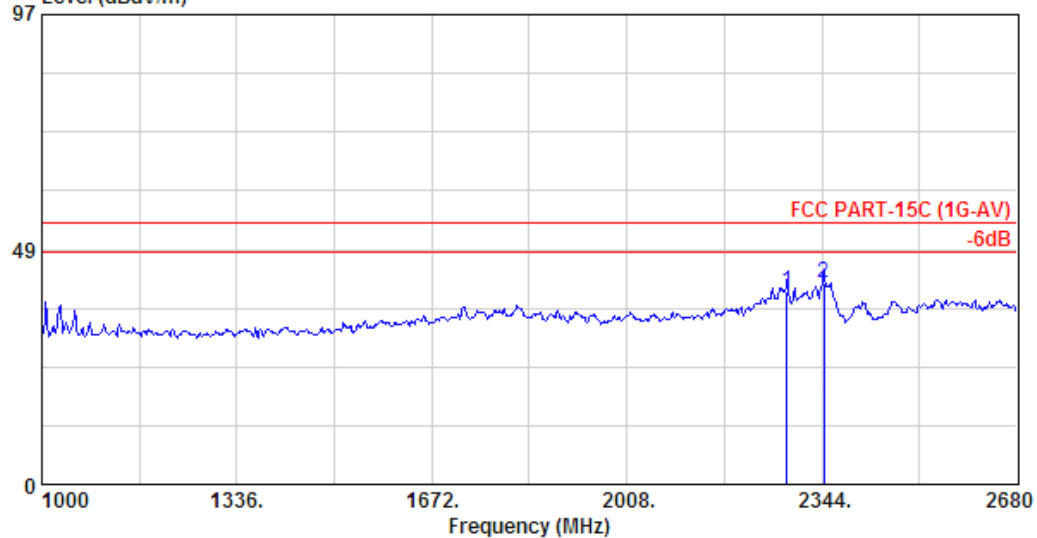
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Data: 15 File: D:\EM980793-futaba\TX2425.EMI (16)
Level (dBuV/m)



Site no.	: site	Data no.	: 15
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		

Data: 16 File: D:\EM980793-futaba\TX2425.EMI (16)
Level (dBuV/m)

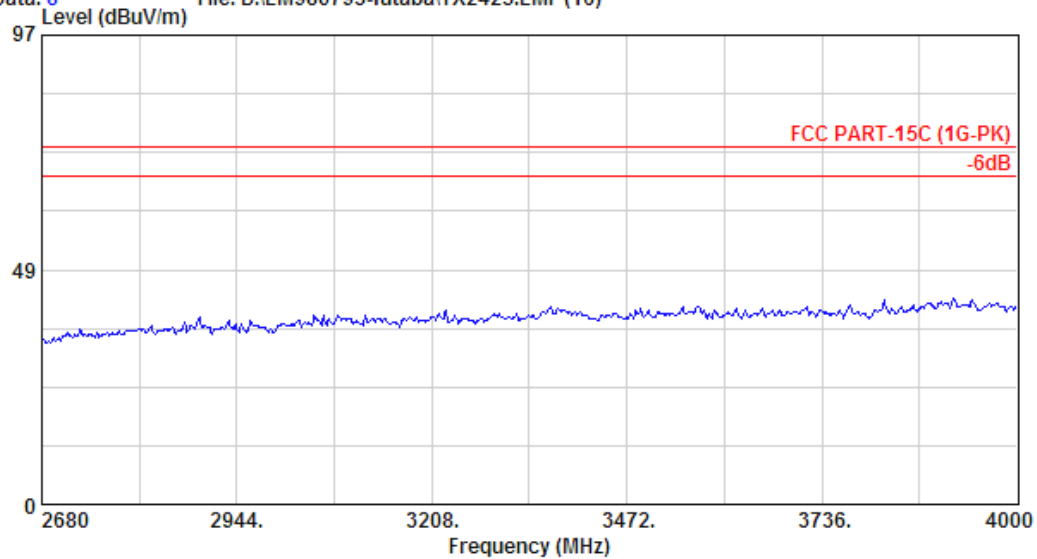


Site no.	: site	Data no.	: 16
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



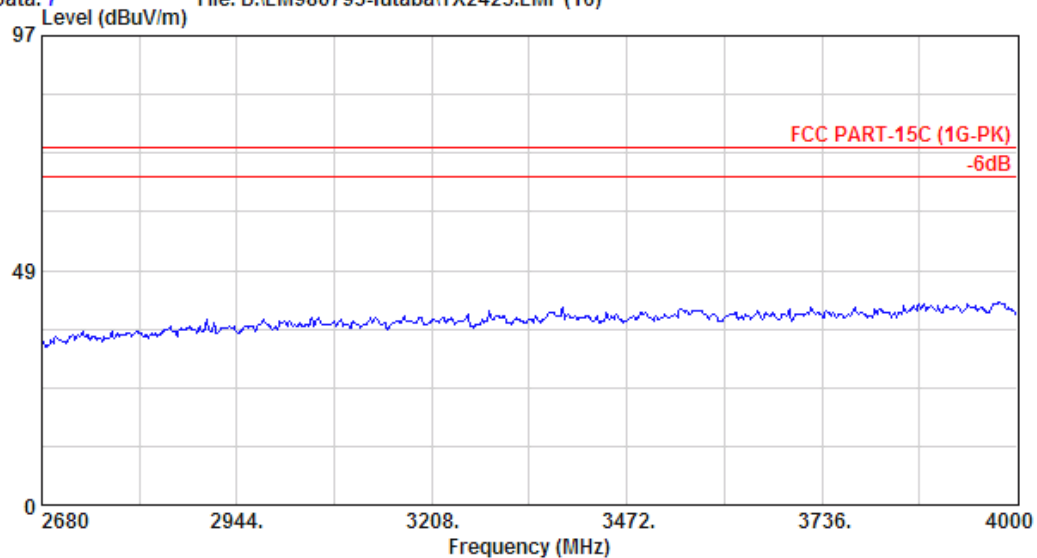
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Email:ttemc@ttemc.com.tw

Data: 8 File: D:\EM980793-futaba\TX2425.EMI (16)



Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		

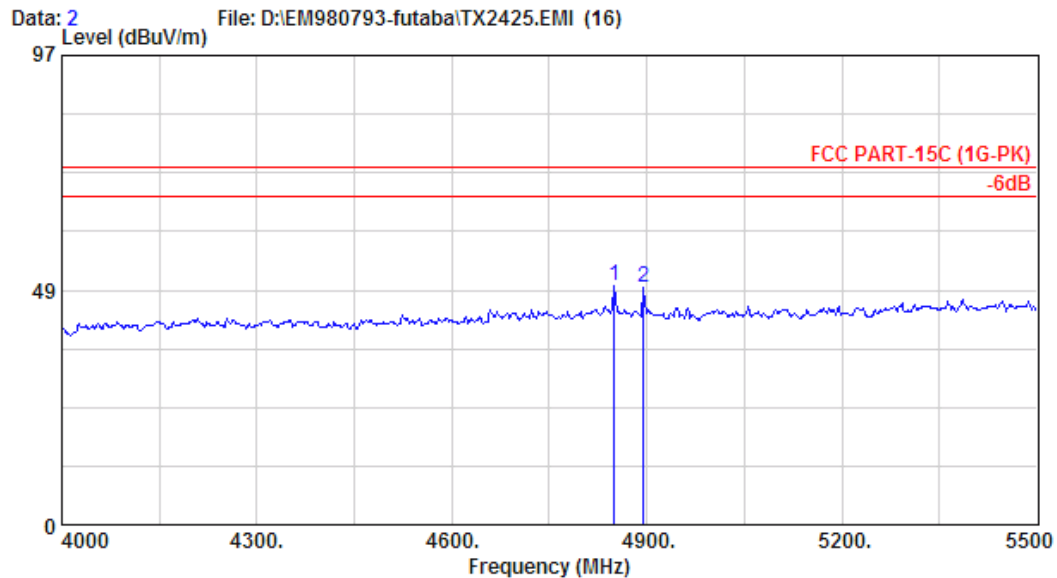
Data: 7 File: D:\EM980793-futaba\TX2425.EMI (16)



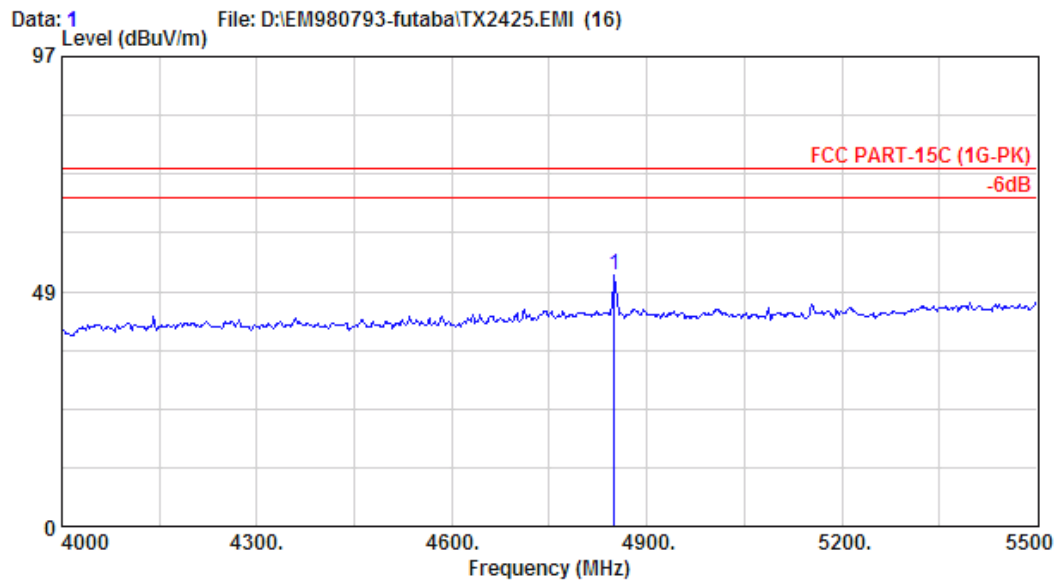
Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



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Site no.	: site	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		

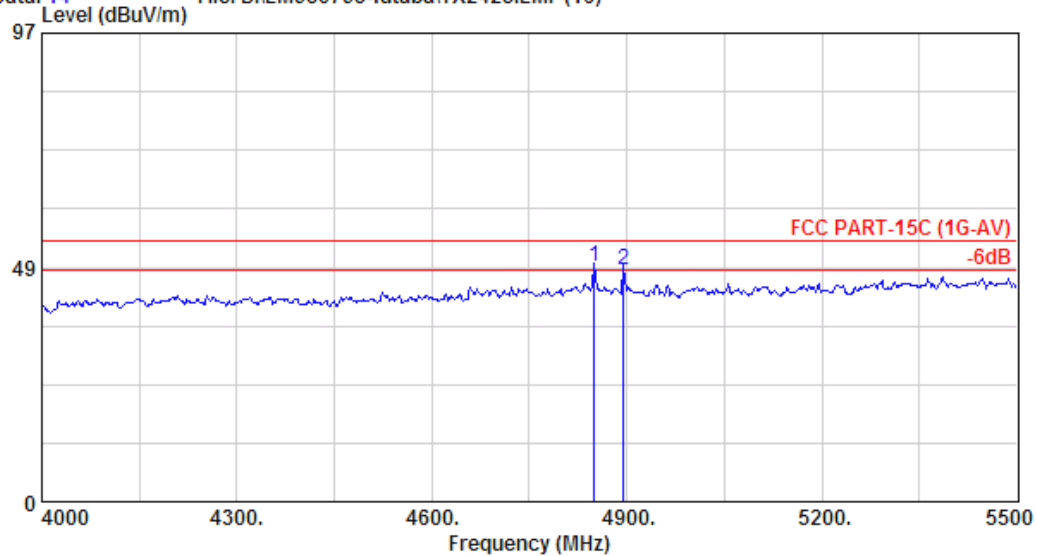


Site no.	: site	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



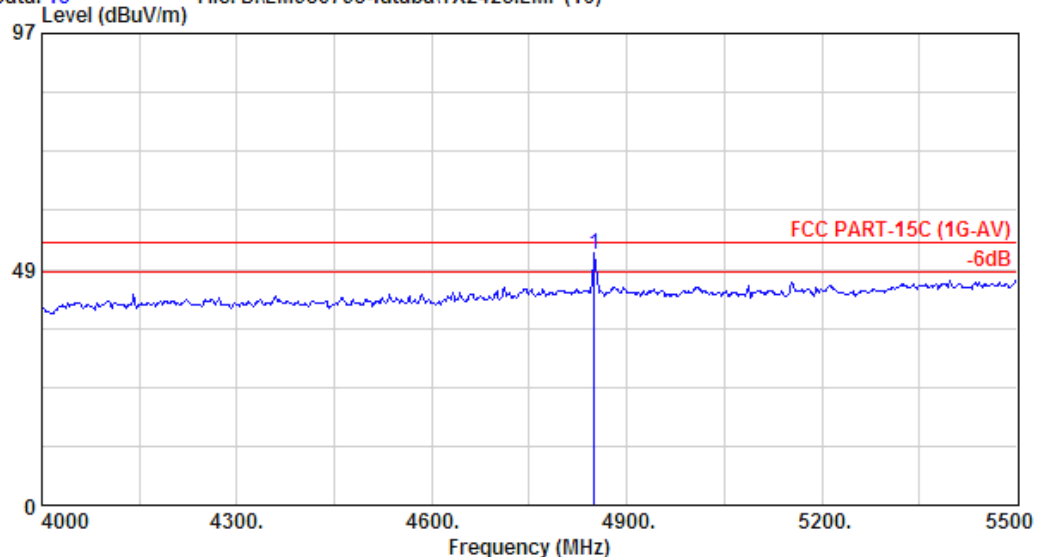
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Data: 14 File: D:\EM980793-futaba\TX2425.EMI (16)



Site no.	: site	Data no.	: 14
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		

Data: 13 File: D:\EM980793-futaba\TX2425.EMI (16)

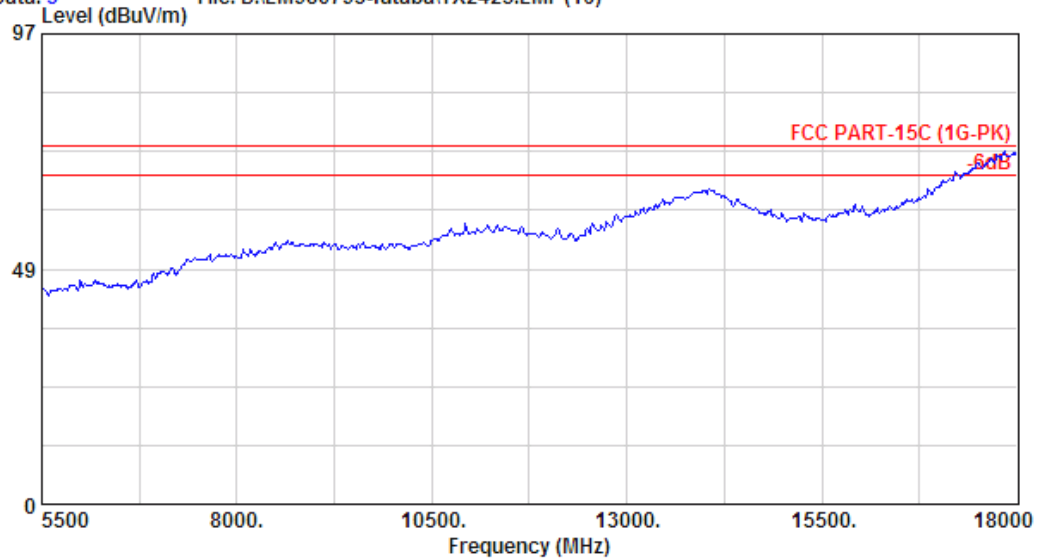


Site no.	: site	Data no.	: 13
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



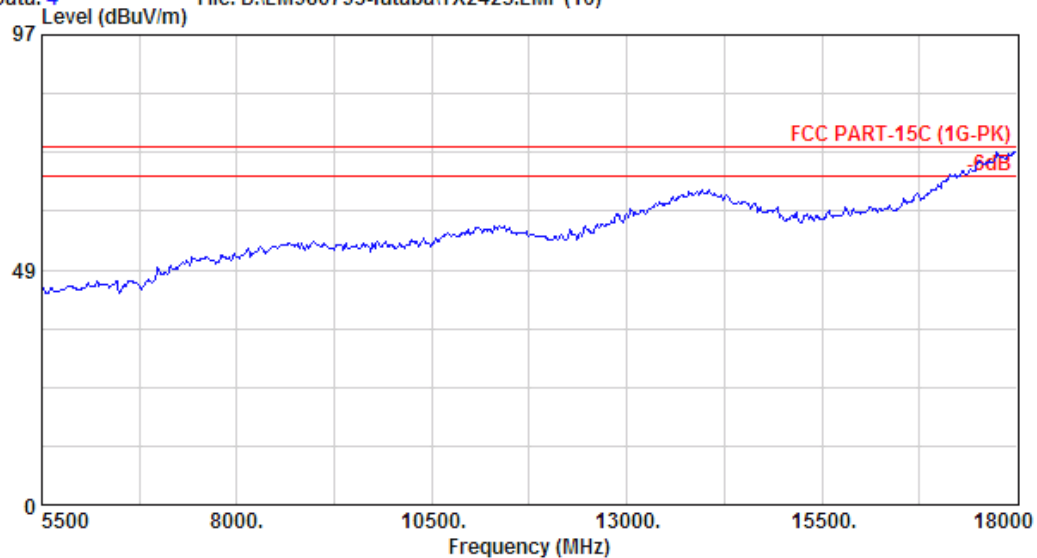
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Email:ttemc@ttemc.com.tw

Data: 3 File: D:\EM980793-futaba\TX2425.EMI (16)



Site no.	: site	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		

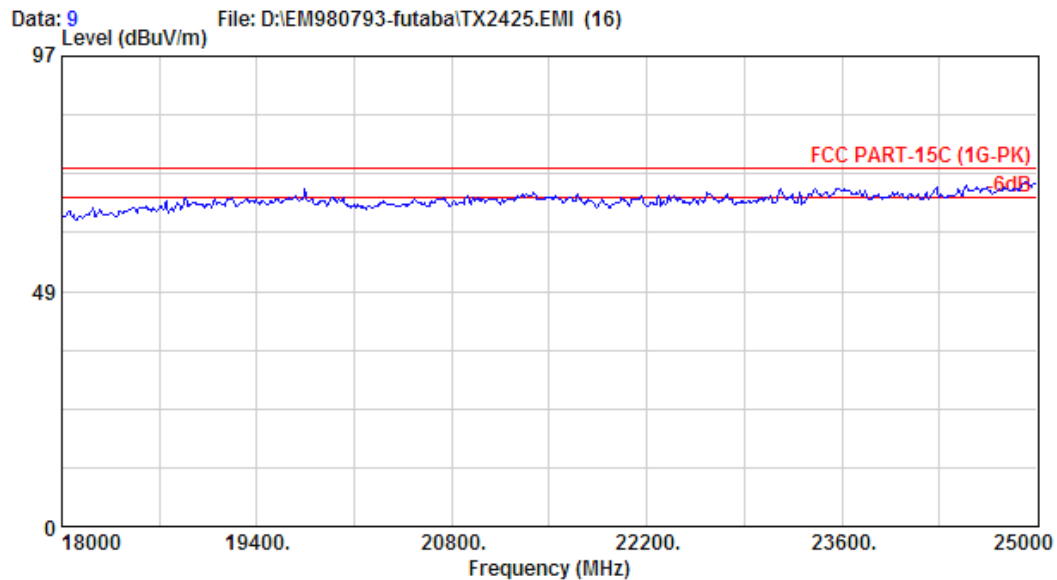
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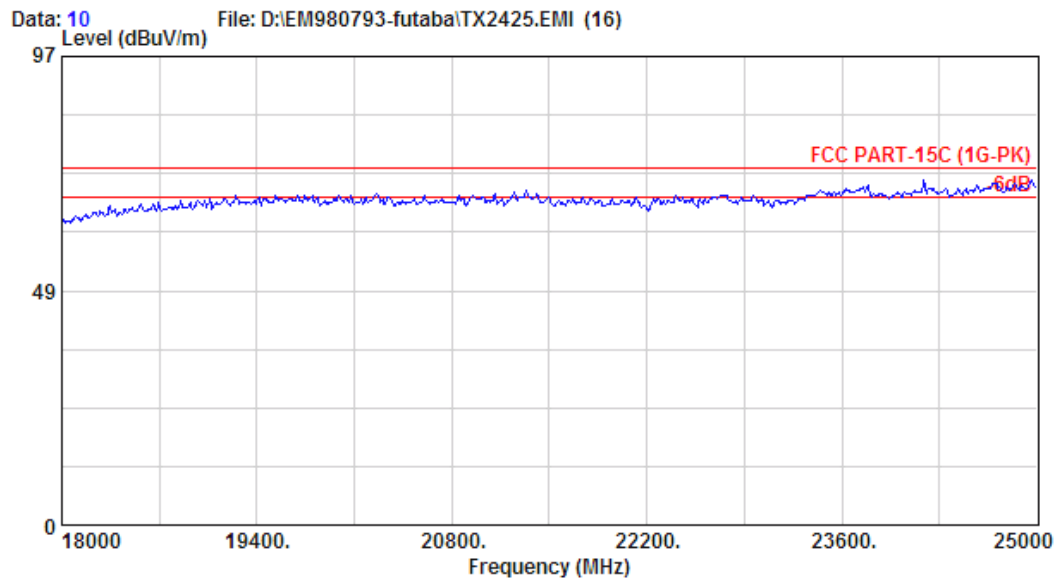
Site no.	: site	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



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 Email:ttemc@ttemc.com.tw



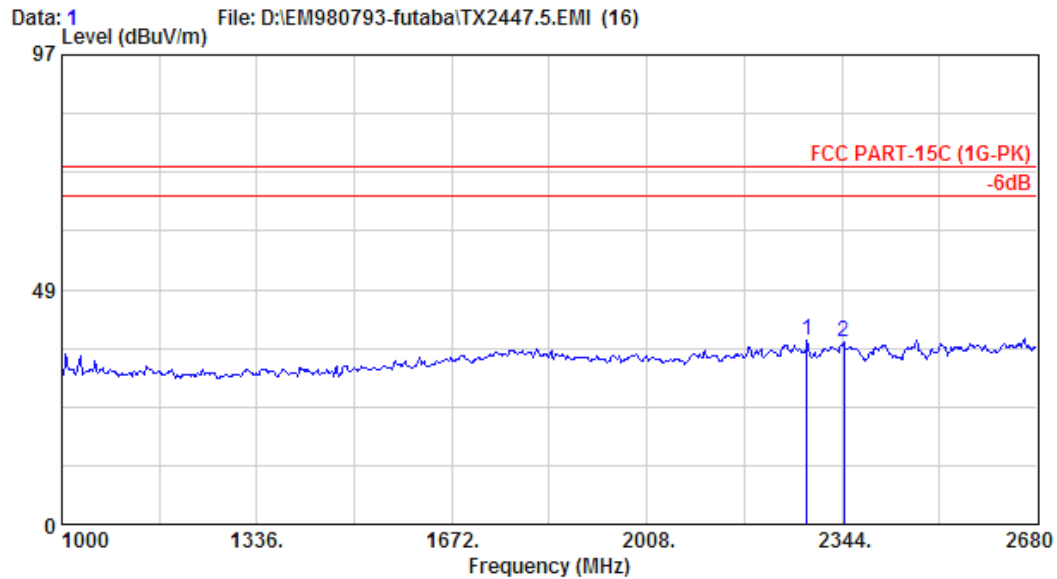
Site no.	: site	Data no.	: 9
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



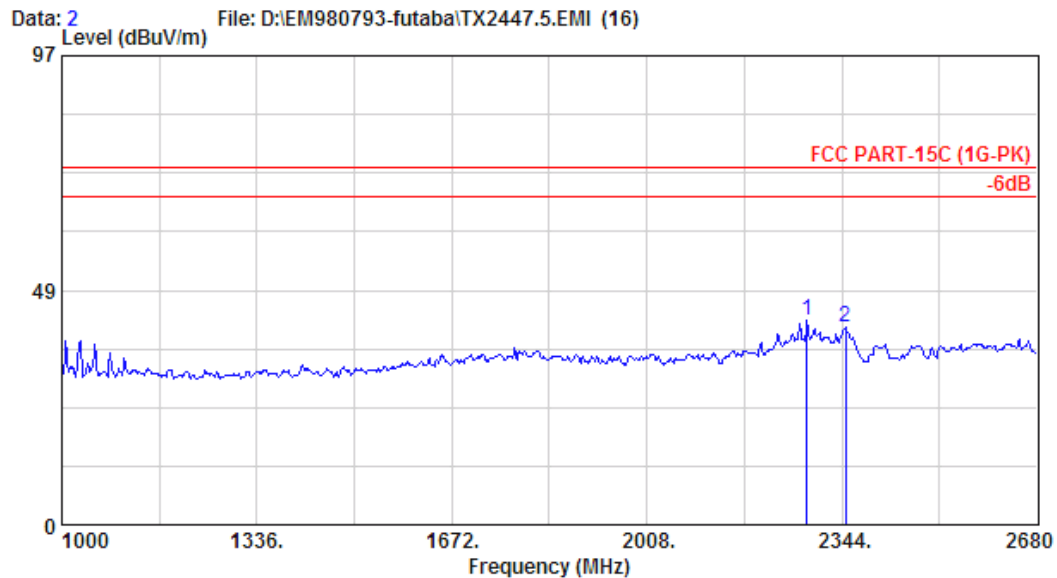
Site no.	: site	Data no.	: 10
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2425		



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 Email:ttemc@ttemc.com.tw



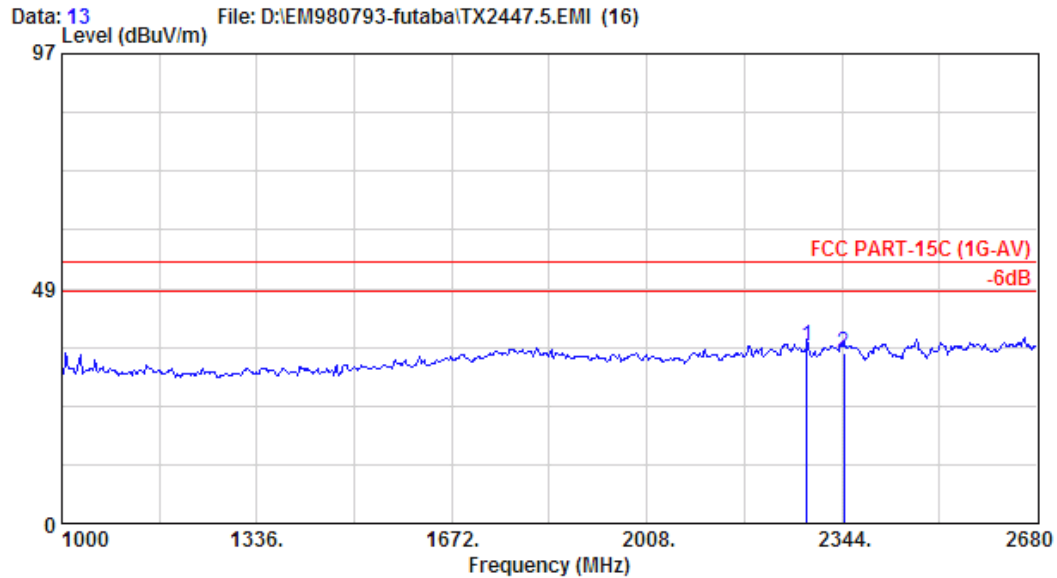
Site no.	: site	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



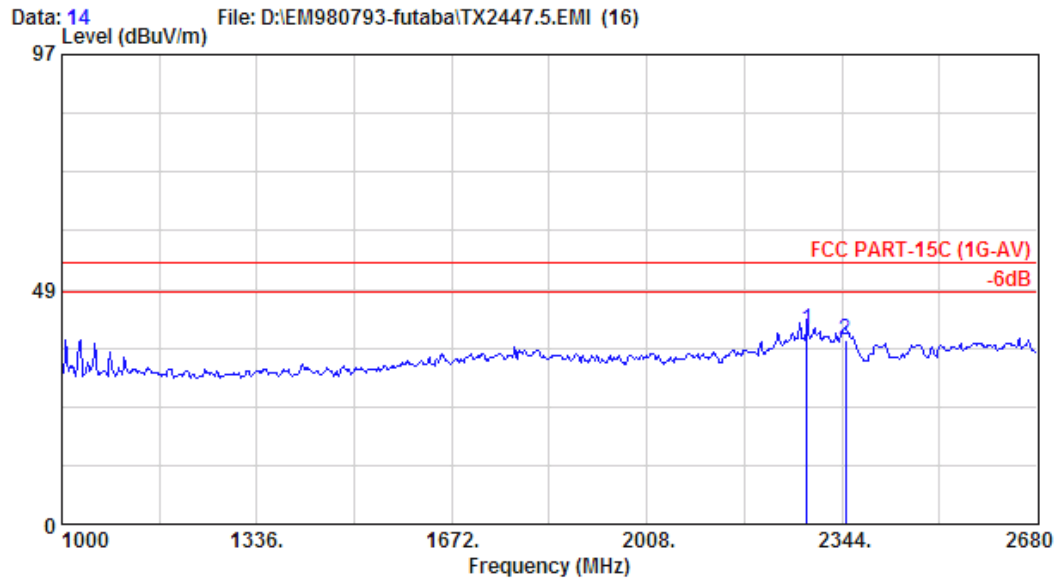
Site no.	: site	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



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Email:ttmc@ttmc.com.tw



Site no.	: site	Data no.	: 13
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 27°C/55%		
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		

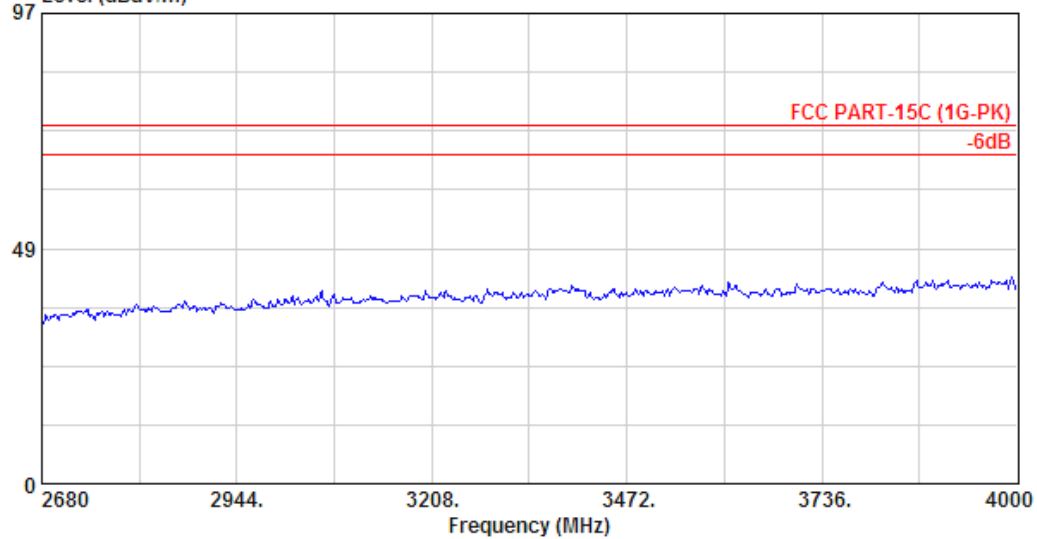


Site no.	: site	Data no.	: 14
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)	Engineer	: Jarwei Wang
Env. / Ins.	: 8564EC 27°C/55%		
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



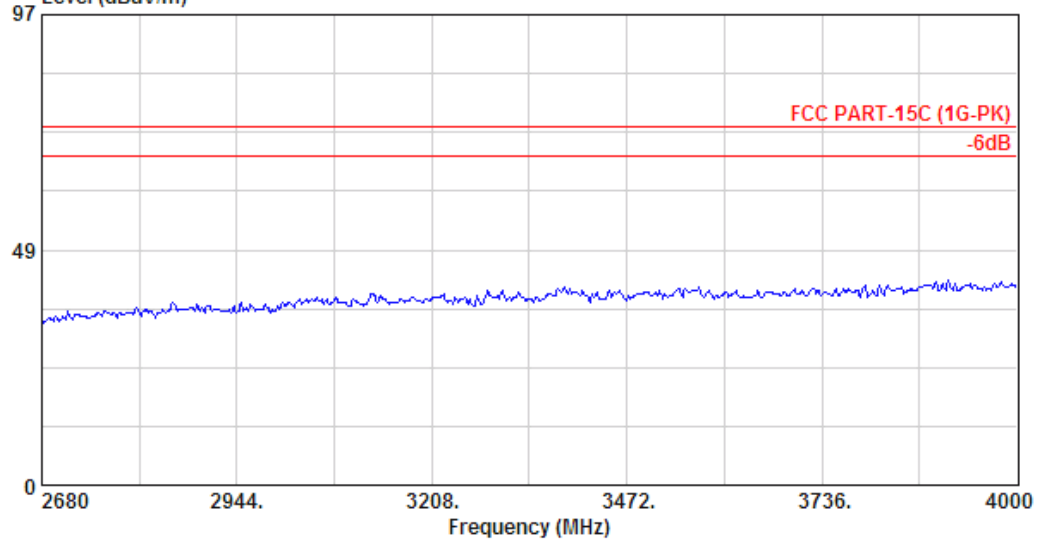
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Data: 4 File: D:\EM980793-futaba\TX2447.5.EMI (16)
Level (dBuV/m)



Site no.	: site	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		

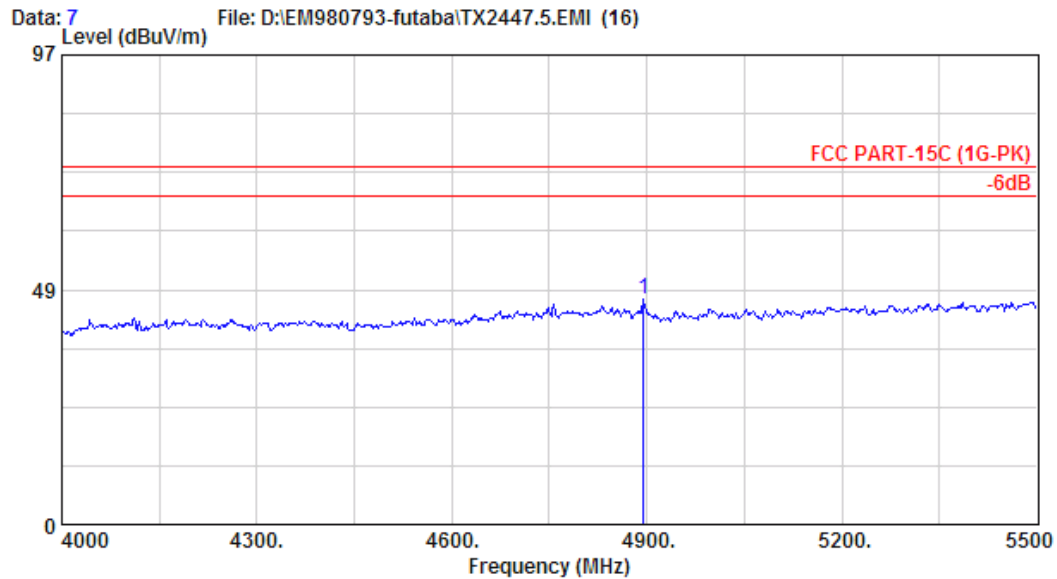
Data: 3 File: D:\EM980793-futaba\TX2447.5.EMI (16)
Level (dBuV/m)



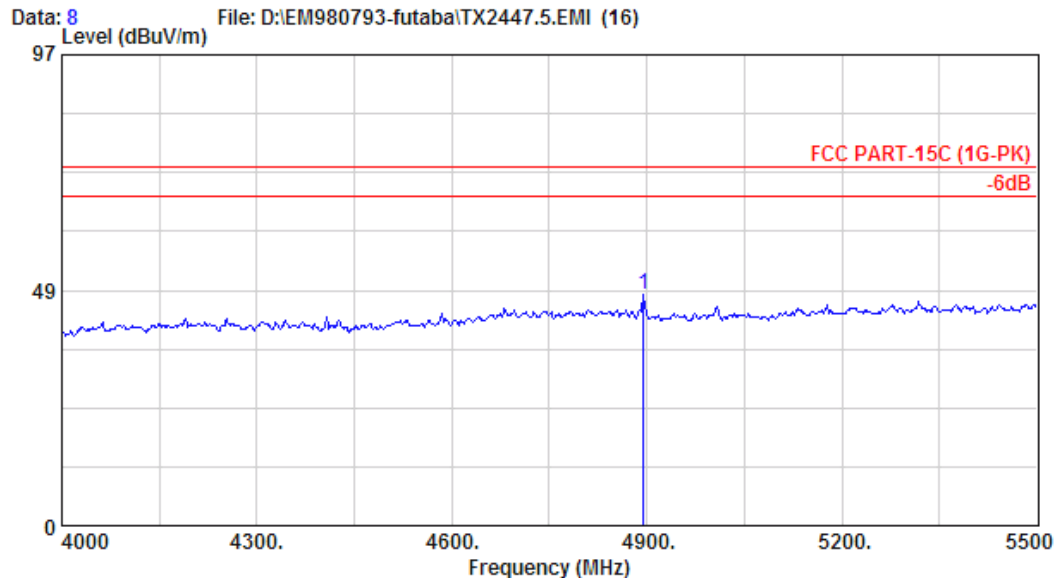
Site no.	: site	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



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Email:ttemc@ttemc.com.tw



Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		

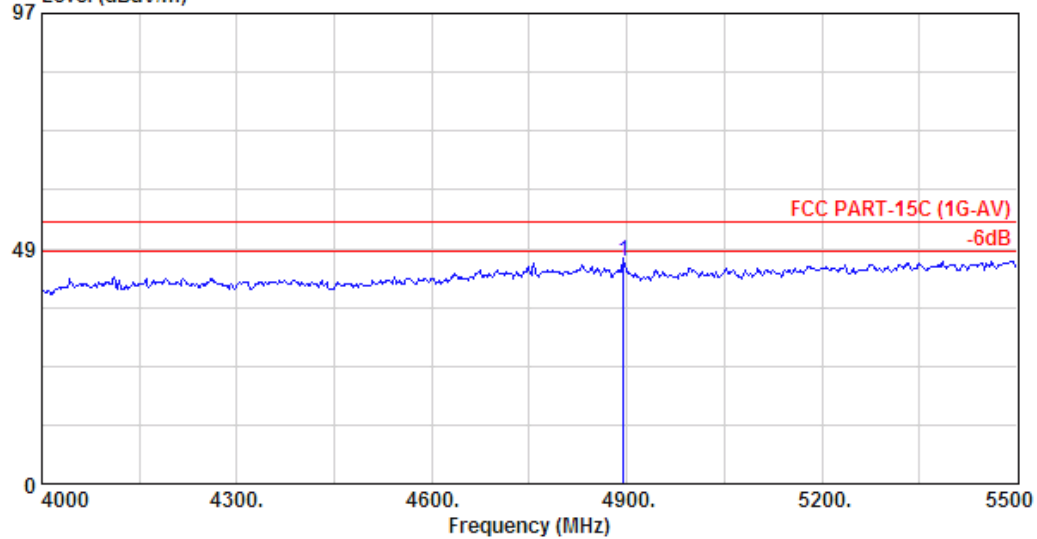


Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



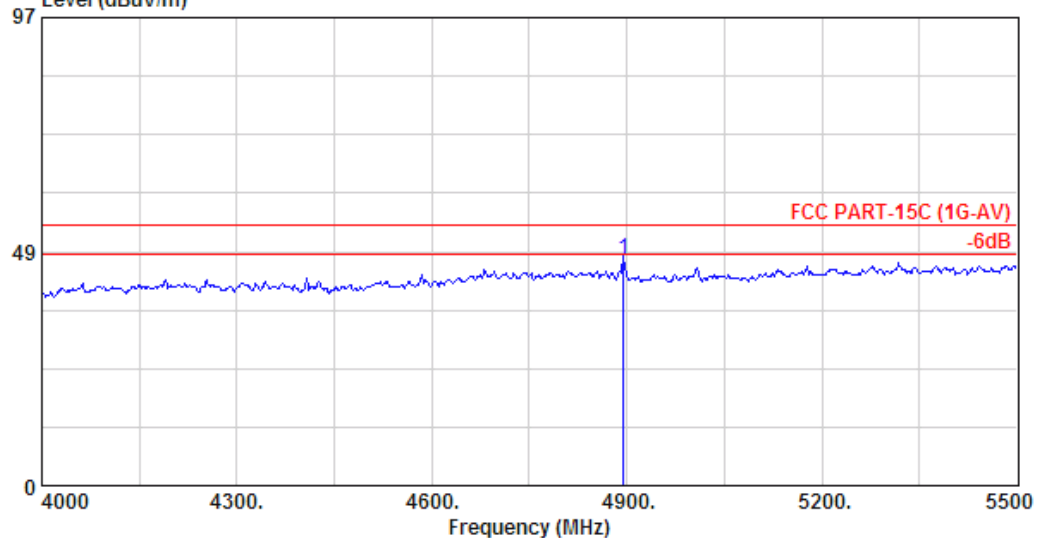
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Email:ttemc@ttemc.com.tw

Data: 15 File: D:\EM980793-futaba\TX2447.5.EMI (16)
Level (dBuV/m)



Site no.	: site	Data no.	: 15
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		

Data: 16 File: D:\EM980793-futaba\TX2447.5.EMI (16)
Level (dBuV/m)

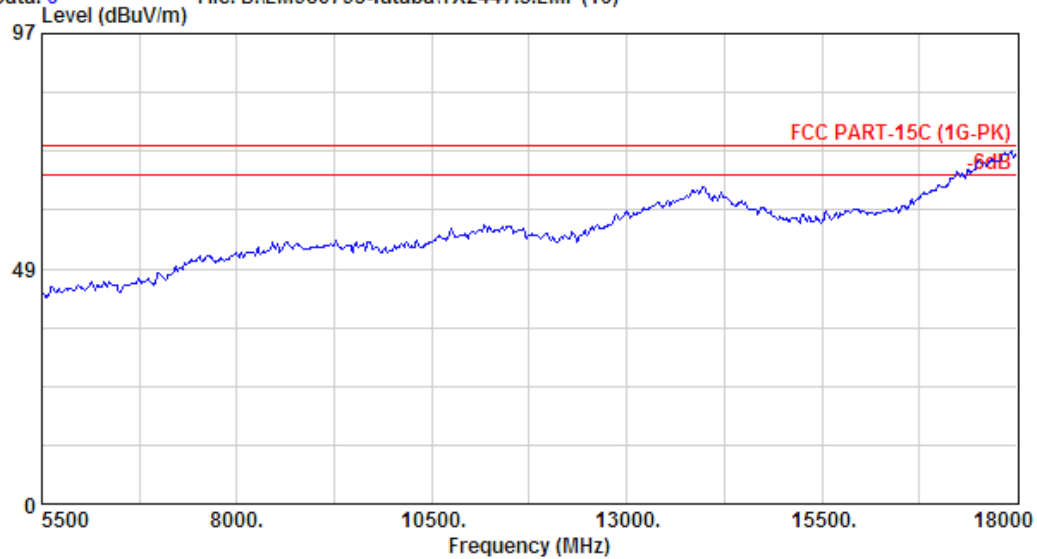


Site no.	: site	Data no.	: 16
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



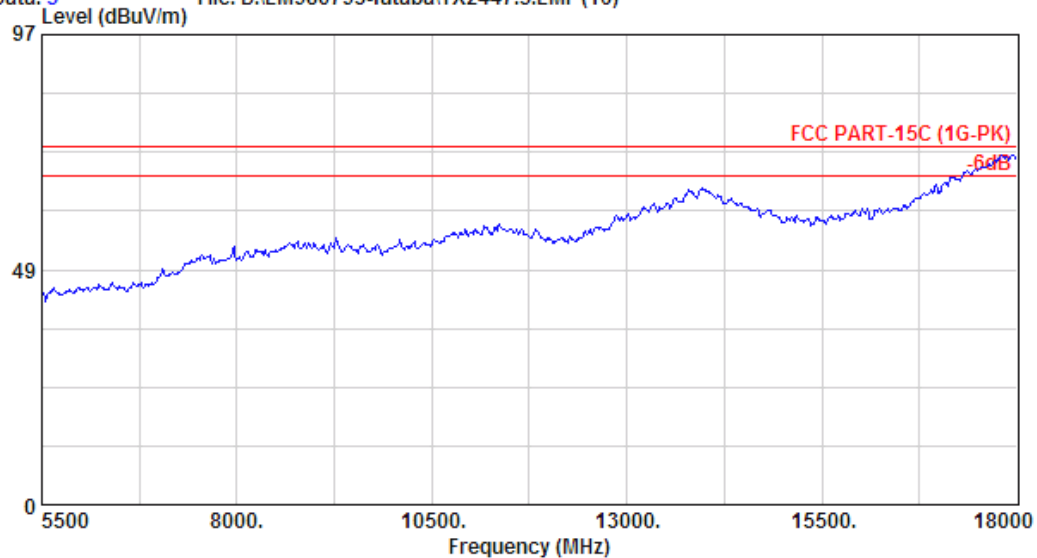
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 Email:ttemc@ttemc.com.tw

Data: 6 File: D:\EM980793-futaba\TX2447.5.EMI (16)



Site no.	: site	Data no.	: 6
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		

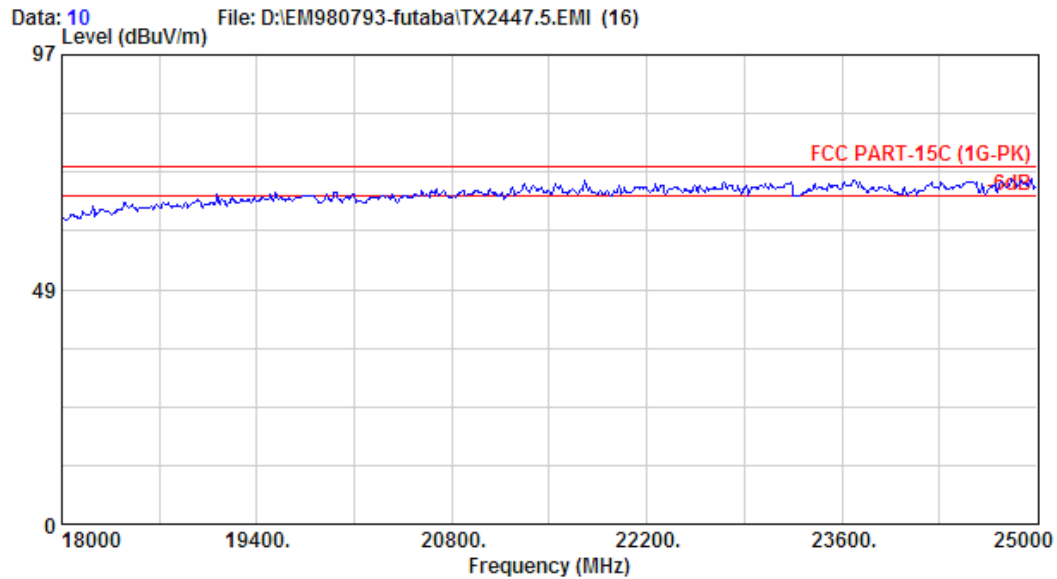
Data: 5 File: D:\EM980793-futaba\TX2447.5.EMI (16)



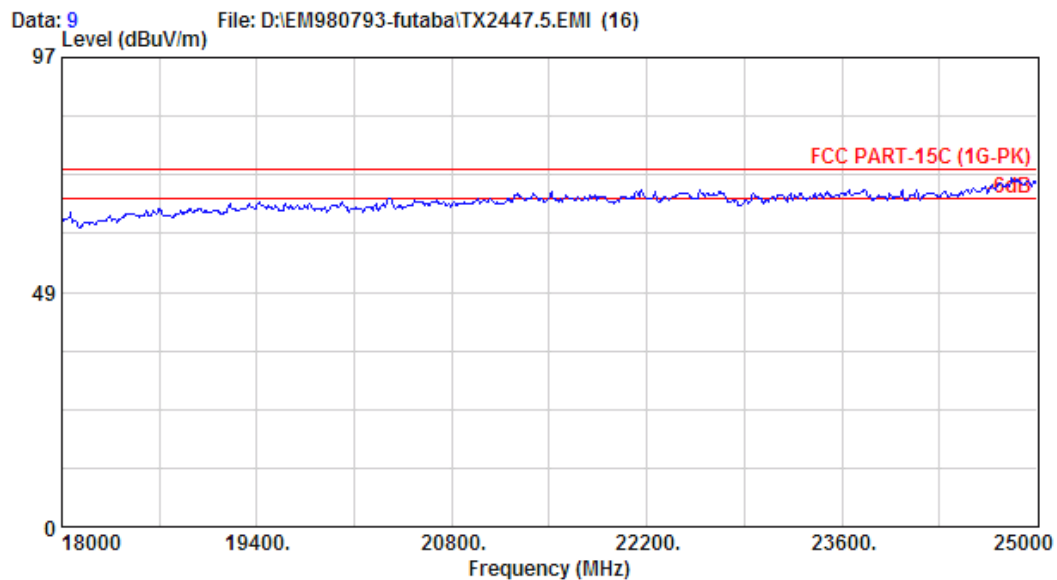
Site no.	: site	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



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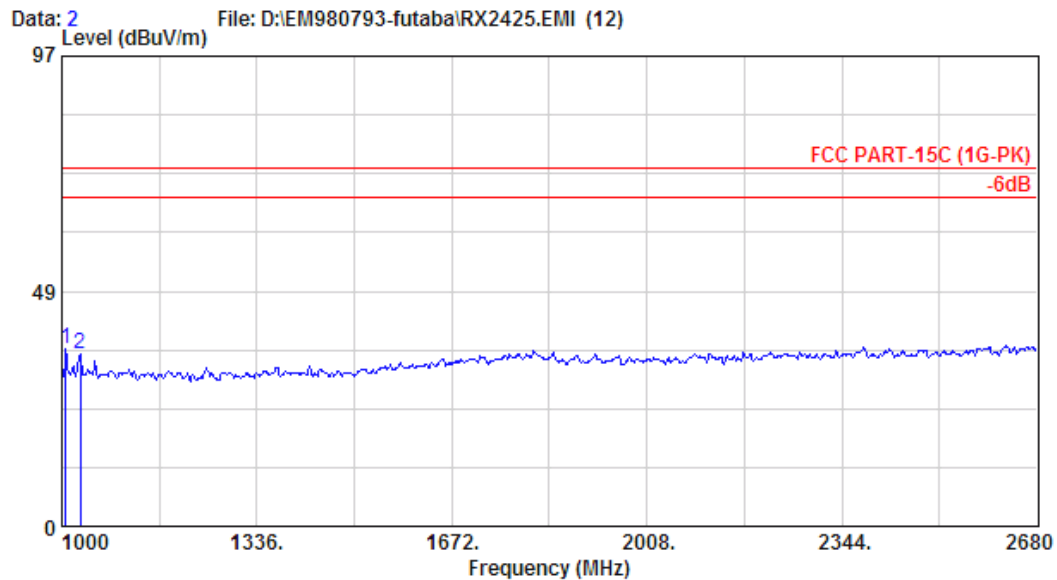
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Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



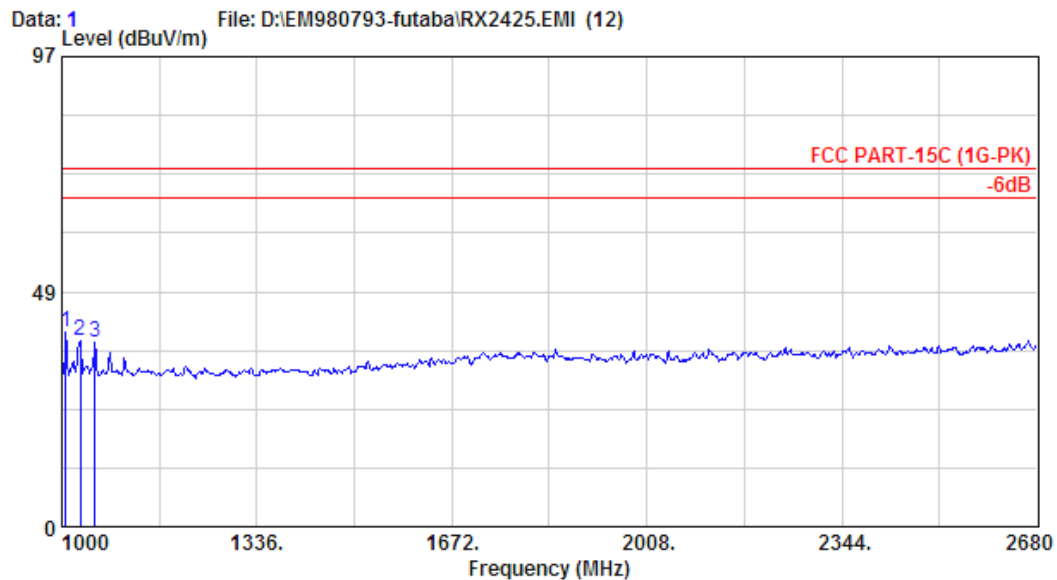
Site no.	: site	Data no.	: 9
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: TX2447.5		



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Site no.	: site	Data no.	: 2
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		

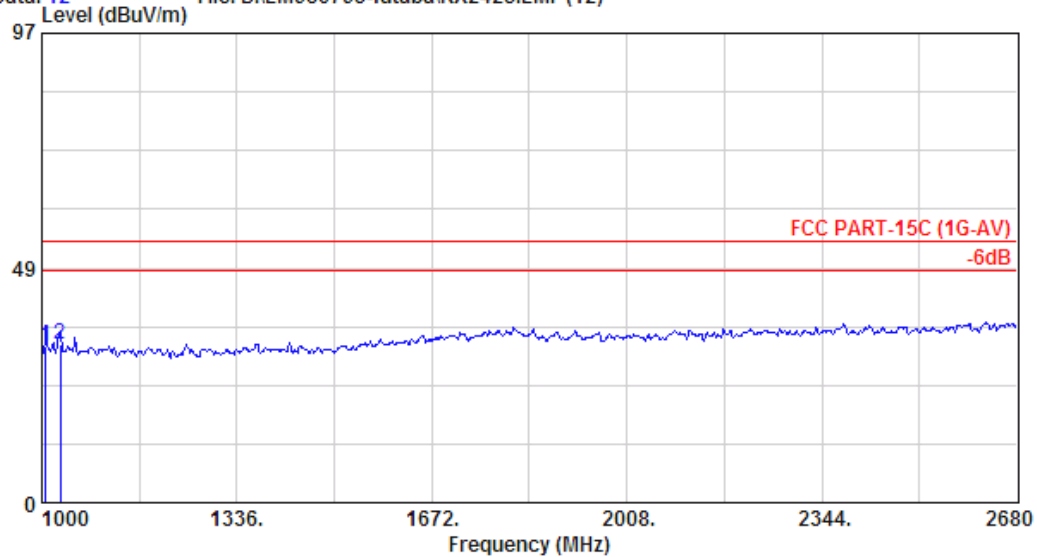


Site no.	: site	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		



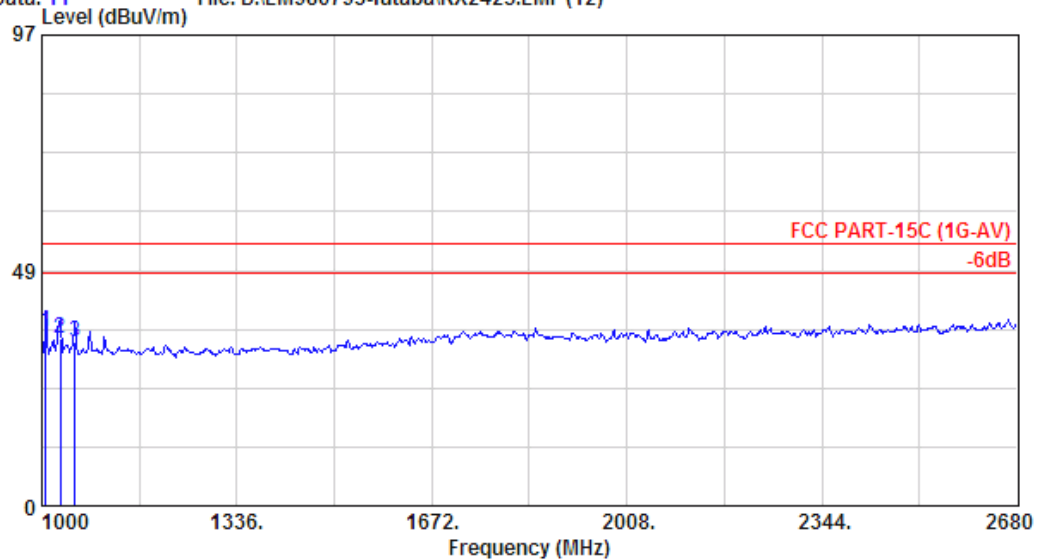
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Data: 12 File: D:\EM980793-futaba\RX2425.EMI (12)



Site no.	: site	Data no.	: 12
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		

Data: 11 File: D:\EM980793-futaba\RX2425.EMI (12)

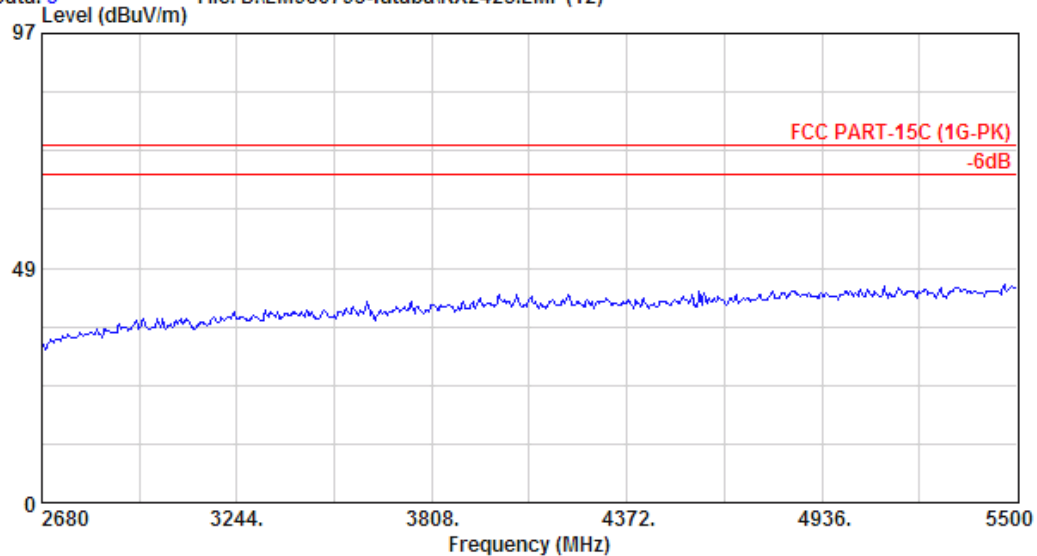


Site no.	: site	Data no.	: 11
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		



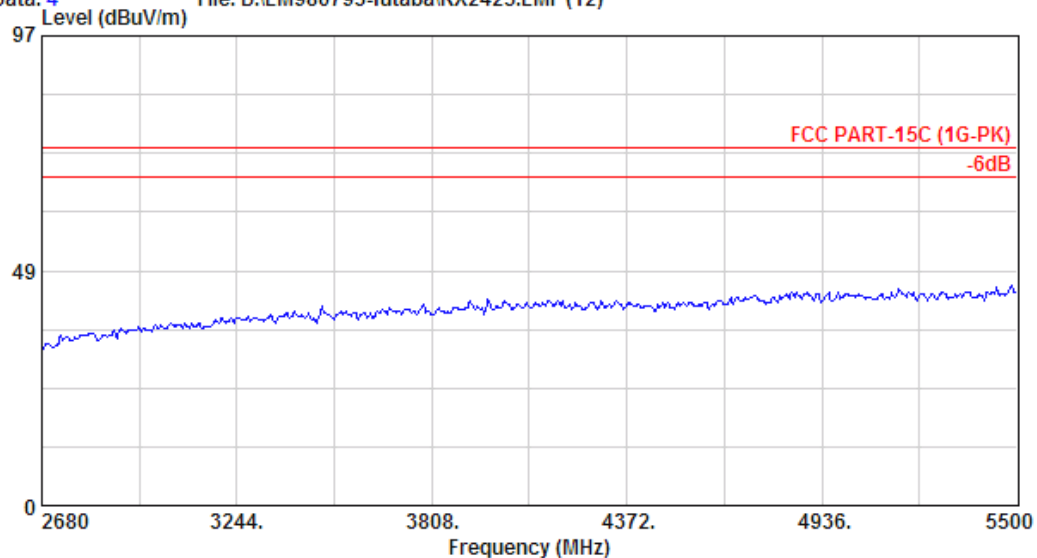
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Data: 3 File: D:\EM980793-futaba\RX2425.EMI (12)



Site no.	: site	Data no.	: 3
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		

Data: 4 File: D:\EM980793-futaba\RX2425.EMI (12)

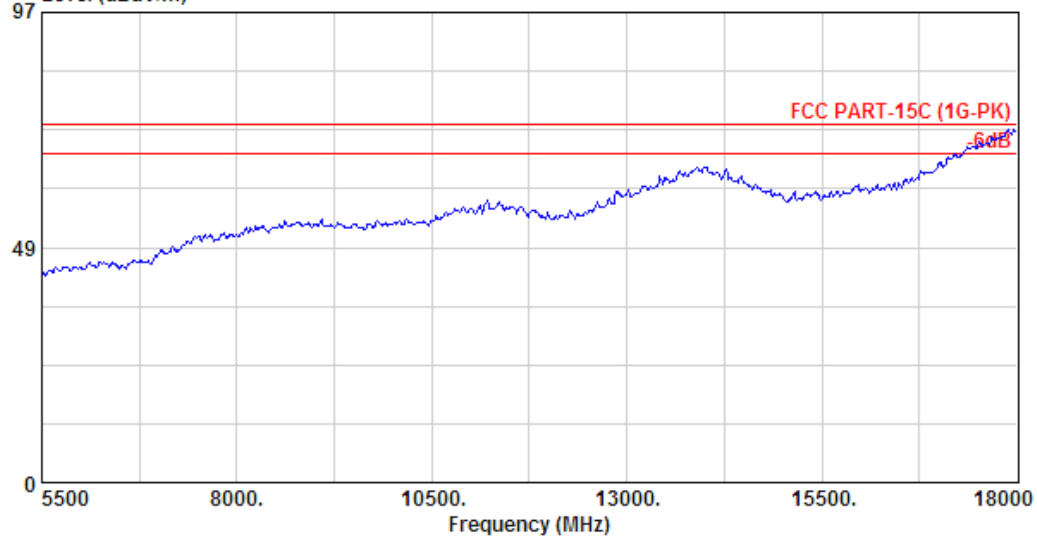


Site no.	: site	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		



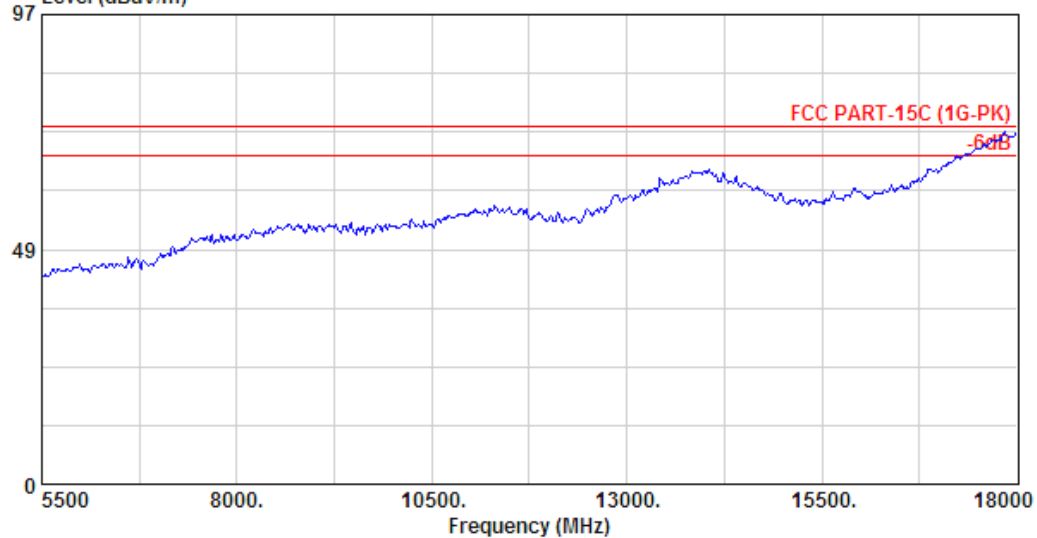
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Data: 6 File: D:\EM980793-futaba\RX2425.EMI (12)
 Level (dBuV/m)



Site no.	: site	Data no.	: 6
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		

Data: 5 File: D:\EM980793-futaba\RX2425.EMI (12)
 Level (dBuV/m)

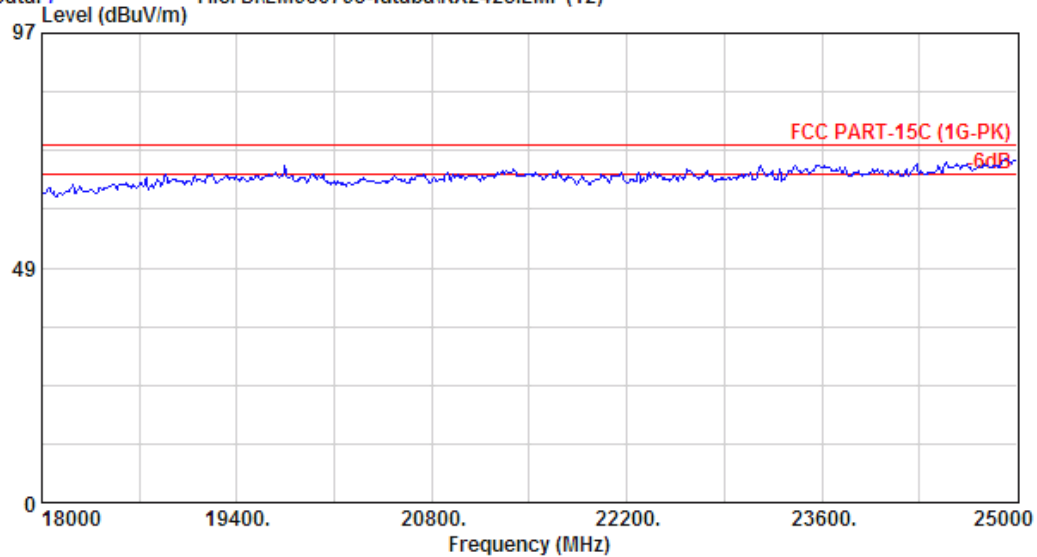


Site no.	: site	Data no.	: 5
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		



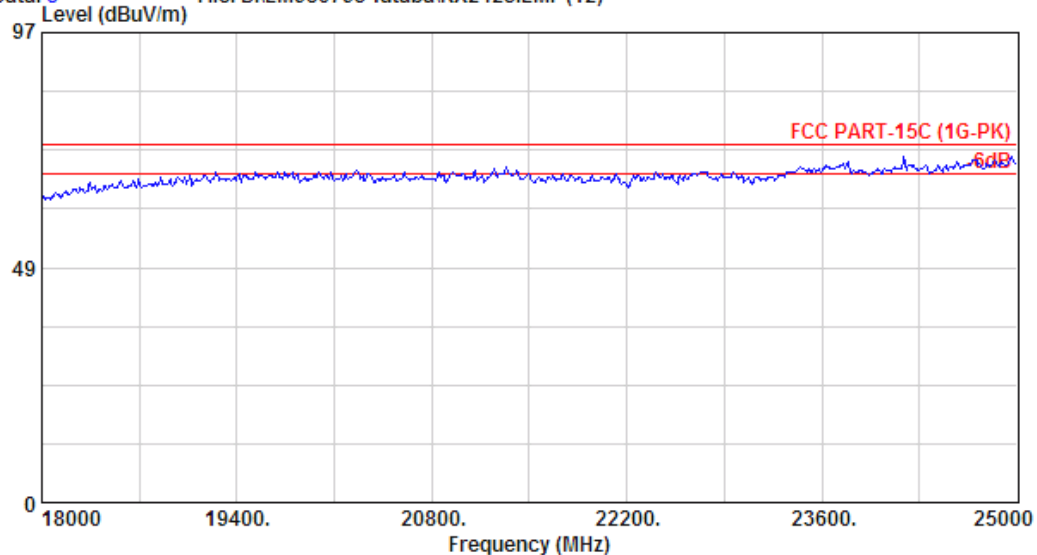
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Data: 7 File: D:\EM980793-futaba\RX2425.EMI (12)



Site no.	: site	Data no.	: 7
Dis. / Ant.	: 3m 3116	Ant. pol.	: HORIZONTAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		

Data: 8 File: D:\EM980793-futaba\RX2425.EMI (12)



Site no.	: site	Data no.	: 8
Dis. / Ant.	: 3m 3116	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8564EC 27°C/55%	Engineer	: Jarwei Wang
EUT	: Radio Control M/N:T2PL		
Power Rating	: DC 6V		
Test Mode	: RX2425		