

시험 성적서

TEST REPORT

페이지(page) : (1) / 총(Total) (18)

성적서 번호 Report No.		ICRT-TR-E260408-0A	
신청자 Client	기관명 Name	Dogtra Co., Ltd.	
	주 소 Address	35, Namdongdong-ro 33beon-gil, Namdong-gu, Incheon 21694 Rep. of KOREA	
시험대상품목 Sample description		training e-collar	
모델명 Type description		TD51UT	
정 격 Ratings		DC 7.4 V	
시험장소 Place of test		☒ 고정시험실(Permanent Testing Lab) ☐ 현장시험(On Site Testing) 주소지(Address): 112, 113 Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		04. Feb. 2026 ~ 05. Feb. 2026	
시험방법/항목 Test Method/Item		FCC Part 95 Subpart C & IC RSS-210 Issue 11 & RSS-Gen Issue 5 AMD2	
시험결과 Test Results		Refer to 3. Test Summary	
확 인 Affirmation	작성자 Tested by 성명 Si-Yeon, Hwang (서명) Name (Signature)		기술책임자 Technical Manager 성명 Yong-Min, Won (서명) Name (Signature)
	☐ 위 성적서는 고객이 제공한 시료에 대한 시험결과입니다. ☐ The above test report is certified that the above mentioned products have been tested for the sample. ☐ 위 성적서는 KS Q ISO/IEC 17025 및 한국인정기구(KOLAS)인정과 관련이 없습니다. ☐ The above test report is not related to accreditation by KS Q ISO/IEC 17025 and Korea Laboratory Accreditation scheme. ☐ 위 성적서는 주식회사 아이씨알의 승인 없이는 일부 복제에 대해 금지됩니다. ☐ The test report is prohibited for some reproduction without the approval of the ICRT. 2026. 02. 05 주식회사 아이씨알 대표이사 The head of INTERNATIONAL CERTIFICATION REGISTRAR		

본 성적서의 진위 확인은 G4B 혹은 ICR 홈페이지에서 가능합니다.

The authenticity of the test report can be checked on the G4B or ICR website.

경기도 김포시 양촌읍 황금3로7번길 112 / Tel: 02-6351-9001 ~ 6

112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea / Tel: 02-6351-9001 ~ 6



시험 성적서

TEST REPORT

페이지(page) : (2) / 총(Total) (18)

Contents

1. Applicant & Manufacturer & Test Laboratory Information	<u>4</u>
2. Equipment under Test(EUT) Information	<u>5</u>
3. Test Summary	<u>6</u>
4. Test Result	<u>8</u>
5. Used equipment	<u>18</u>



시험 성적서

TEST REPORT

페이지(page) : (3) / 총(Total) (18)

Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E260408-0A	2026. 02. 05	Initial Issue	All



시험 성적서

TEST REPORT

페이지(page) : (4) / 총(Total) (18)

1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Dogtra Co., Ltd.
Address	35, Namdongdong-ro 33beon-gil, Namdong-gu, Incheon 21694 Rep. of KOREA

1.2 Manufacturer Information

Applicant	Dogtra Co., Ltd.
Address	35, Namdongdong-ro 33beon-gil, Namdong-gu, Incheon 21694 Rep. of KOREA

1.3 Test Laboratory Information

Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
KOLAS No.	KT652
KC & FCC	KR0165

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	0.14%
RF output power, conducted	0.85 dB
Unwanted Emissions, conducted	1.35 dB
Radio Frequency	0.00004%
All emissions, radiated (Under the 30 MHz)	2.10 dB
All emissions, radiated (Range 30 MHz ~ 1 GHz)	1.95 dB



시험 성적서

TEST REPORT

페이지(page) : (5) / 총(Total) (18)

2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	training e-collar
Model Name	TD51UT
Additional Model Name	EDGE2
FCC ID	SWN-TD51UT
ISED certification number	12166A-TD51UT
Power Supply	DC 7.4 V
H/W Version	1.0
S/W Version	1.0

2.2 Additional Information

Equipment Class	TNB
Device Type	Stand-alone
Operating Frequency	27.195 MHz
RF Output Power	0.29 W
Number of Channel	1
Modulation Type	FSK
Antenna Type	Helical Antenna
Antenna Gain	-15 dBi

2.3 Reason of Additional Model Name

NO	Family Model Name	Difference
1	EDGE2	The product is identical to the Basic model; the term "Basic model" is used for production management purposes, while the consumer sales model name is "EDGE2."



시험 성적서

TEST REPORT

페이지(page) : (6) / 총(Total) (18)

3. Test Summary

3.1 Test standards and results

FCC Part 95 Subpart C & IC RSS-210 & RSS Gen				
FCC Part Section	RSS Section	Test items(s)	Applied	Results
95.767 (b)	RSS-210 Annex A.2.1(c)	RF Output Power	■	PASS
95.773	RSS-210 Annex A.2.1(e)	Occupied Bandwidth	■	PASS
95.779 (a)(1)(2)	RSS-210 Annex A.2.1(g)	Emission Mask	■	PASS
95.779 (a)(3)	RSS-210 Annex A.2.1(g)	Unwanted Emissions	■	PASS
95.765 (b)	RSS-210 Annex A.2.1(f)	Frequency Accuracy	■	PASS

3.1.1 Purpose of the test

- To determine whether the equipment under test fulfills the requirements of the standards stated in FCC Part 95 Subpart C
- To determine whether the equipment under test fulfills the requirements of the standards stated in RSS-Gen & RSS-210.

3.1.2 Test Methodology

- Both conducted and radiated testing was performed according to the procedures in ANSI C63.26: 2015. Radiated testing was performed at a distance of 3 m from EUT to the antenna.
- Both conducted and radiated testing was performed according to the procedures in RSS-Gen & RSS-210. Radiated testing was performed at a distance of 3 m from EUT to the antenna.



시험 성적서

TEST REPORT

페이지(page) : (7) / 총(Total) (18)

3.1.3 Configuration of Test System

Radiated emission test

- Preliminary radiated emissions test were conducted using the procedure in ANSI C63.26: 2015 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

- Preliminary radiated emissions test were conducted using the procedure in RSS-Gen & RSS-210 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.



시험 성적서

TEST REPORT

페이지(page) : (8) / 총(Total) (18)

4. Test Result

4.1. RF Output Power

4.1.1 Test procedure

ANSI C63.26-2015 Clause 5.2.4.4.1

RSS Gen 6.12

4.1.2 Limit

§95.767 (b)

26-28 MHz frequency band. For an RCRS transmitter operating on 27.255 MHz, the mean transmitter output power must not exceed 25 Watts. For an RCRS transmitter operating on 26.995, 27.045, 27.095, 27.145, or 27.195 MHz, the mean transmitter output power must not exceed 4 Watts.

RSS-210 Issue 10 Annex A.2.1(c)

For double sideband (DSB), digital or frequency modulation (FM), the transmitter unmodulated carrier power shall not exceed 4 W.

4.1.3 Test data

Result : Pass

Frequency (MHz)	Mean Transmitter Output Power		Unmodulated Carrier Power		Limit (W)
	(dBm)	(W)	(dBm)	(W)	
Frequency (MHz)	24.55	0.29	23.57	0.23	4

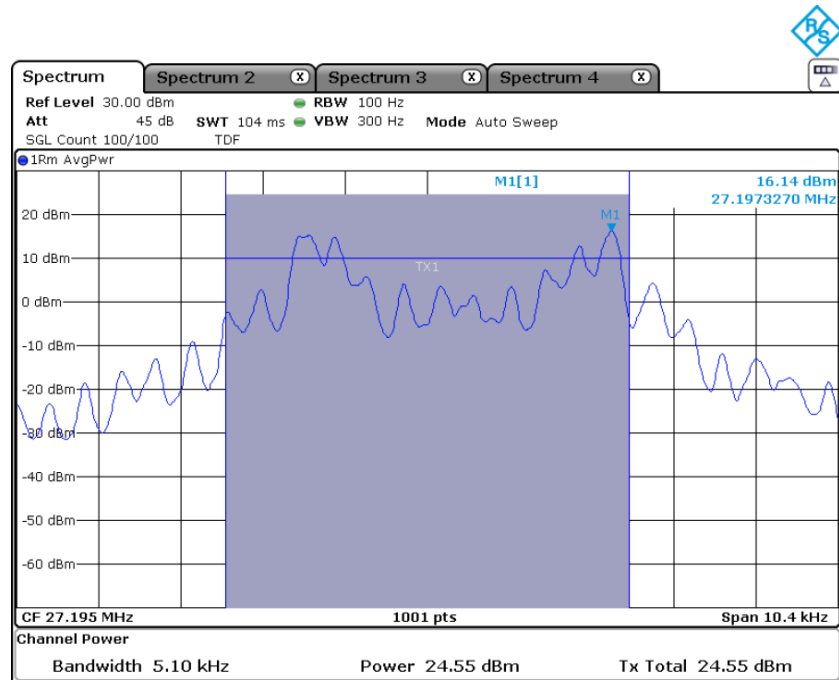


시험 성적서

TEST REPORT

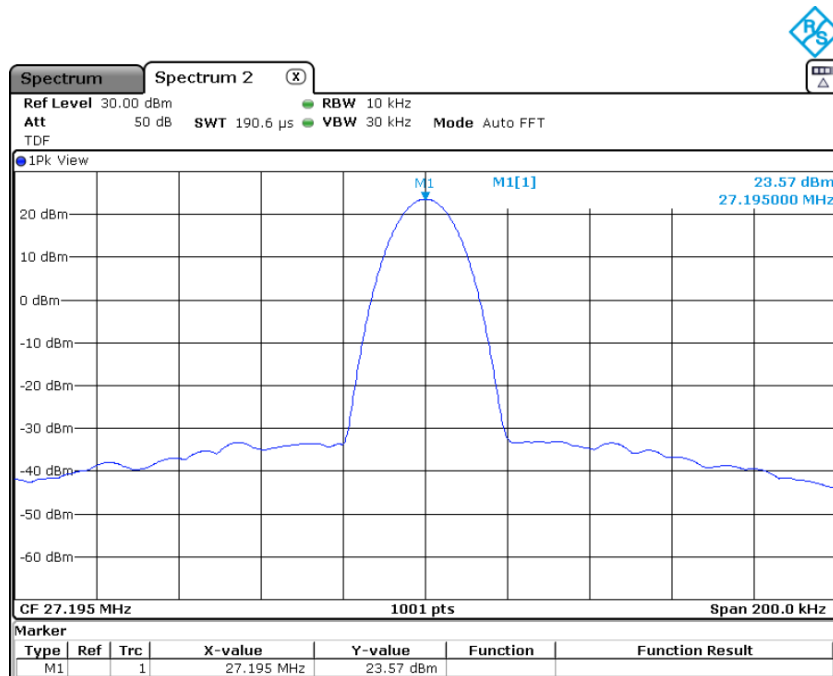
페이지(page) : (9) / 총(Total) (18)

Mean Transmitter Output Power



Date: 4.FEB.2026 10:40:22

Unmodulated Carrier Power



Date: 4.FEB.2026 10:51:44



시험 성적서

TEST REPORT

페이지(page) : (10) / 총(Total) (18)

4.2 Occupied Bandwidth

4.2.1 Test procedure

ANSI C63.26-2015 Clause 5.4.4

RSS Gen 6.7

4.2.2 Limit

§95.773

Each RCRS transmitter type must be designed such that the occupied bandwidth does not exceed 8 kHz for any emission type.

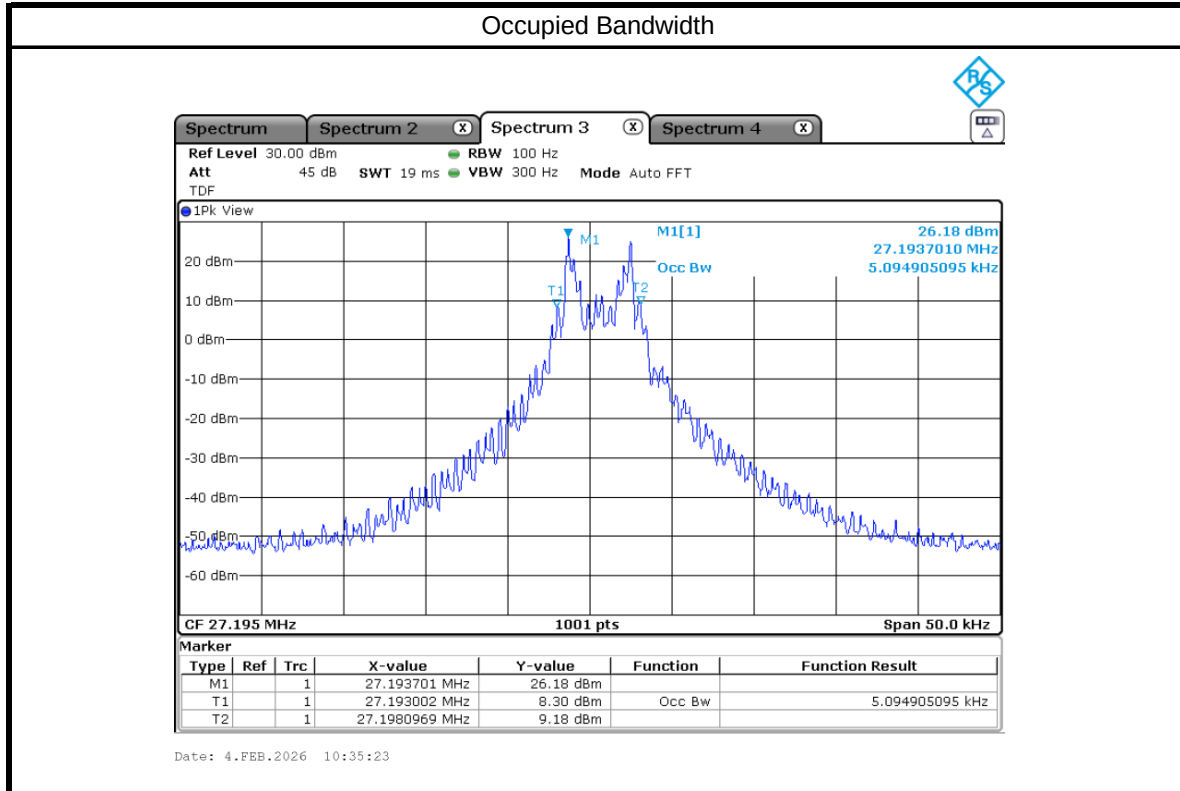
RSS-210 Issue 10 Annex A.2.1(e)

The authorized bandwidth is 8 kHz for DSB, digital or FM, and 4 kHz for SSB modulations. For SSB modulations, either upper or lower sideband may be used.

4.2.3 Test data

Result : Pass

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
27.195	5.095	8





시험 성적서

TEST REPORT

페이지(page) : (11) / 총(Total) (18)

4.3 Emission Mask

4.3.1 Test procedure

ANSI C63.26-2015 Clause 5.7.2

RSS Gen 6.13

4.3.2 Limit

§95.779(a)

26-28 MHz frequency band. For an RCRS transmitter operating in the 26-28 MHz frequency band, the power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) by at least:

- (1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency;
- (2) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency;

RSS-210 Issue 10 Annex A.2.1(g)

The average power of unwanted emissions, measured with a resolution bandwidth of 300 Hz for A.2.1(g)(i) and A.2.1(g)(ii), and 3 kHz for A.2.1(g)(iii), shall comply with the following limits, where P_{MEAN} is the mean transmitter power in dBW:

- (i) (P_{MEAN} – 25) dBW on any frequency removed from the centre of the authorized bandwidth by more than 50%, up to and including 100% of the authorized bandwidth.
- (ii) (P_{MEAN} – 35) dBW on any frequency removed from the centre of the authorized bandwidth by more than 100%, up to and including 250% of the authorized bandwidth.



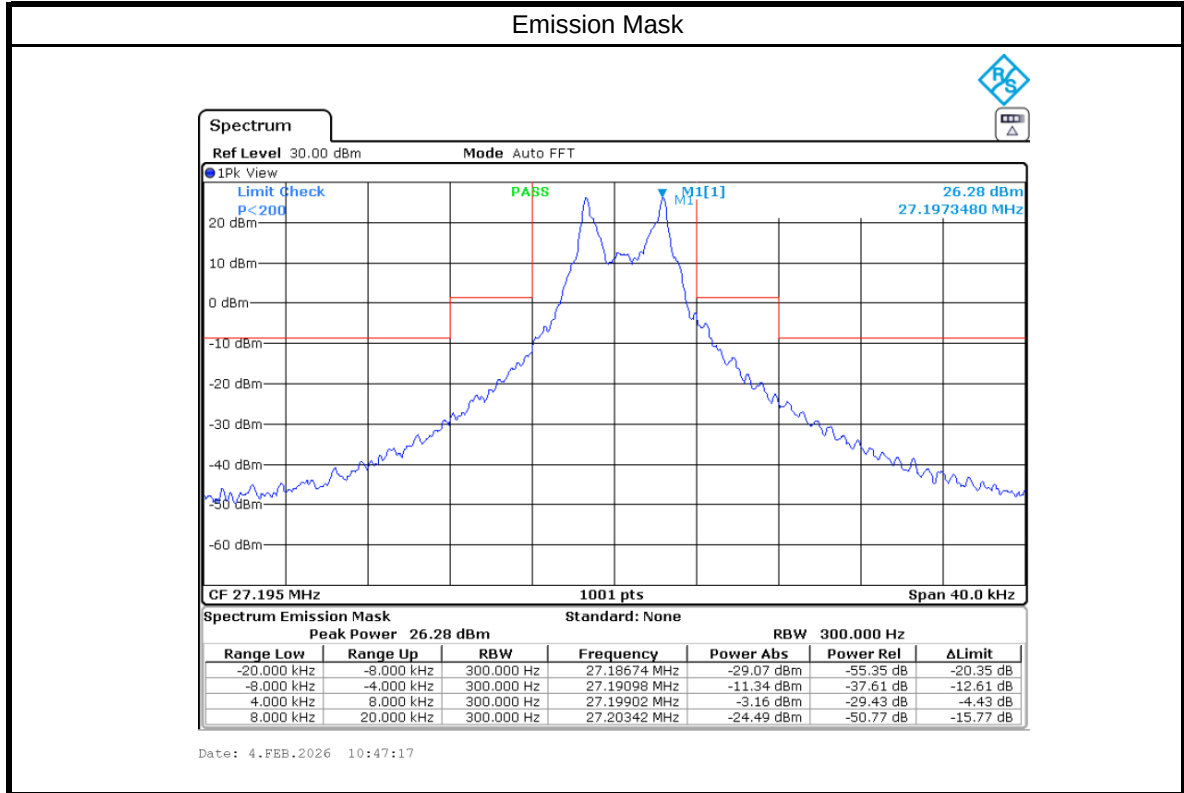
시험 성적서

TEST REPORT

페이지(page) : (12) / 총(Total) (18)

4.3.3 Test data

Result : Pass





시험 성적서

TEST REPORT

페이지(page) : (13) / 총(Total) (18)

4.4 Transmitter Unwanted Emissions

4.4.1 Test procedure

ANSI C63.26-2015 Clause 5.5

ANSI C63.26-2015 Clause 5.7.4

RSS Gen 6.13

4.4.2 Limit

§95.779(a)

26-28 MHz frequency band. For an RCRS transmitter operating in the 26-28 MHz frequency band, the power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) by at least:

(3) $43 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 20 kHz.

RSS-210 Issue 10 Annex A.2.1(g)

The average power of unwanted emissions, measured with a resolution bandwidth of 300 Hz for A.2.1(g)(i) and A.2.1(g)(ii), and 3 kHz for A.2.1(g)(iii), shall comply with the following limits, where P_{MEAN} is the mean transmitter power in dBW:

(iii) -43 dBW or the general field strength limits specified in RSS-Gen, whichever is less stringent, on any frequency removed from the centre of the authorized bandwidth by more than 250% of the authorized bandwidth.

4.4.3 Test data

Result : Pass

- Conducted

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin
54.385	-23.40	-13	10.40
108.785	-36.27	-13	23.27

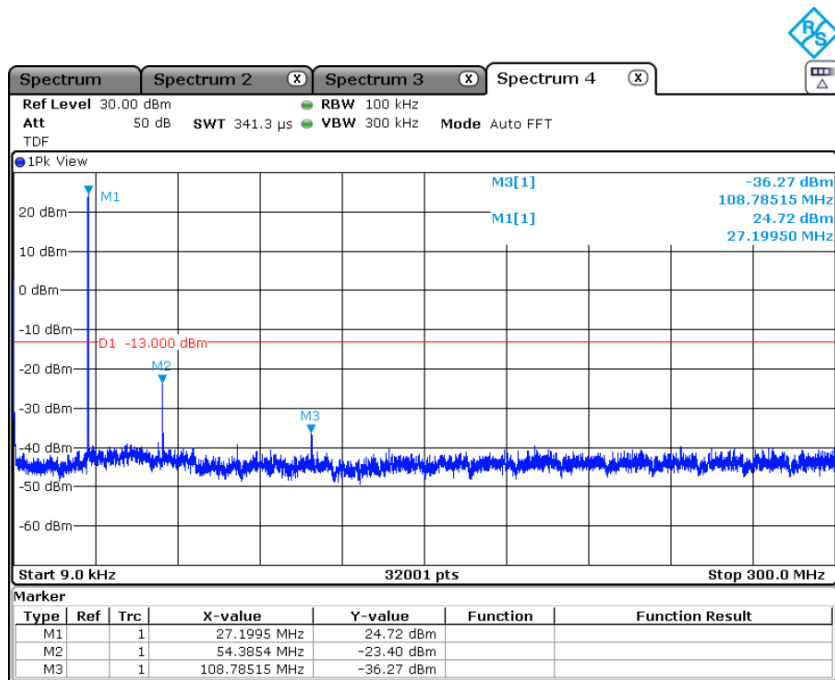


시험 성적서

TEST REPORT

페이지(page) : (14) / 총(Total) (18)

Conducted_Transmitter Unwanted Emissions



Date: 4.FEB.2026 10:41:39



시험 성적서

TEST REPORT

페이지(page) : (15) / 총(Total) (18)

- Radiated

Below 30 MHz

Frequency (MHz)	Reading (dBuV/m)	Detector	Pol.	Factor (dB)	Total			Limit	
					Result (dBuV/m)	CF (dB)	E.R.P (dBm)	Limit (dBm)	Margin (dB)
0.009	33.63	AVG	H	21.0	54.63	-95.26	-42.78	-13	29.78
0.018	20.15	AVG	V	20.4	40.55	-95.26	-56.86	-13	43.86
0.023	20.91	AVG	H	20.3	41.21	-95.26	-56.20	-13	43.20
0.031	17.75	AVG	H	20.3	38.05	-95.26	-59.36	-13	46.36
1.643	14.62	QP	H	20.3	34.92	-95.26	-62.49	-13	49.49
23.523	13.62	QP	H	20.9	34.52	-95.26	-62.89	-13	49.89

Below 1 GHz

Frequency (MHz)	Reading (dBuV/m)	Detector	Pol.	Factor (dB)	Total			Limit	
					Result (dBuV/m)	CF (dB)	E.R.P (dBm)	Limit (dBm)	Margin (dB)
54.347	68.21	QP	V	-14.5	53.71	-95.26	-43.70	-13	30.70
81.507	50.74	QP	V	-20.9	29.84	-95.26	-67.57	-13	54.57
108.764	55.66	QP	V	-16.2	39.46	-95.26	-57.95	-13	44.95
135.924	41.00	QP	V	-19.6	21.40	-95.26	-76.01	-13	63.01
163.181	52.90	QP	V	-19.0	33.90	-95.26	-63.51	-13	50.51
190.341	48.37	QP	V	-16.9	31.47	-95.26	-65.94	-13	52.94

Reamark;

1. Result(dBuV/m) = Reading(dBuV/m) + Factor(dB).
2. E.I.R.P = Result(dBuV/m) + CF(dB).
3. E.R.P = Result(dBuV/m) + CF(dB) - 2.15.
4. CF(dB) = 20 log D - 104.8.
5. The testing was set in the three orthogonal planes and measured for each position (X, Y, Z).

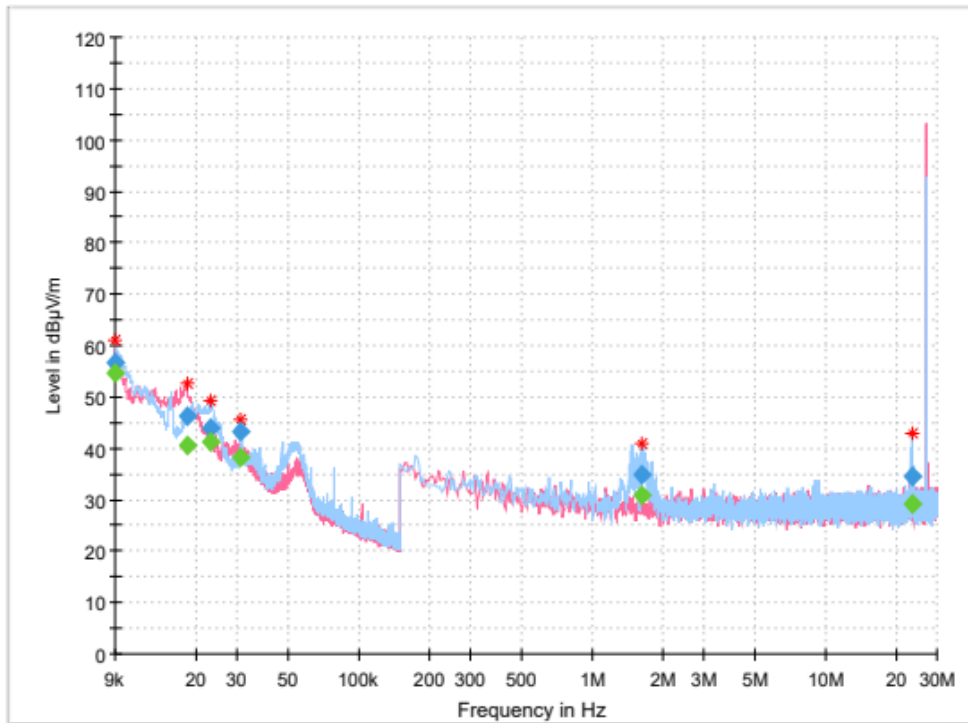


시험 성적서

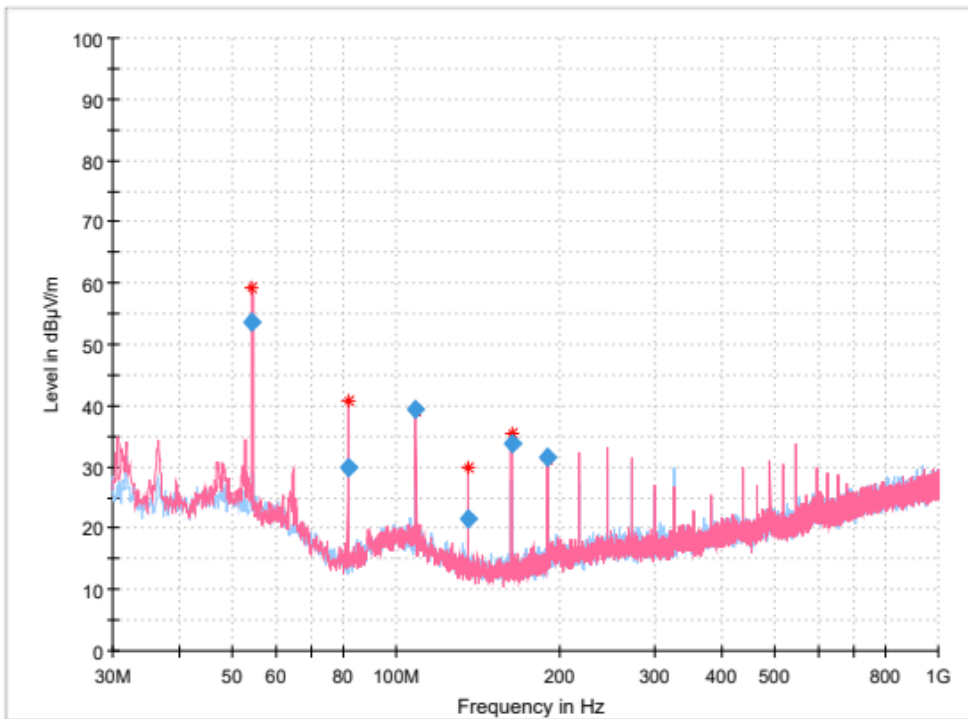
TEST REPORT

페이지(page) : (16) / 총(Total) (18)

Radiated_Below 30 MHz_Transmitter Unwanted Emissions



Radiated_Below 1 GHz_Transmitter Unwanted Emissions





시험 성적서

TEST REPORT

페이지(page) : (17) / 총(Total) (18)

4.5 Frequency Accuracy

4.5.1 Test procedure

ANSI C63.26-2015 Clause 5.6

RSS Gen 6.11

4.5.2 Limit

§95.765(b)

Except as allowed under paragraph (c) of this section, each RCRS transmitter type capable of transmitting in the 26-28 MHz frequency band must be designed such that the carrier frequencies remain within ± 50 ppm of the channel center frequencies listed in § 95.763(a) during normal operating conditions.

RSS-210 Issue 10 Annex A.2.1(f)

The carrier frequency stability shall not exceed ± 50 ppm. However, devices with output powers of 2.5 W or less may have a frequency stability of up to ± 100 ppm.

4.5.3 Test data

Result : Pass

Reference Frequency : 27.195 MHz			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	7.4	-83	-2.50
40		-77	-2.28
30		-43	-1.03
20 (Ref.)		-15	-
10		-8	0.26
0		45	2.21
-10		58	2.68
-20		65	2.94
-30		45	2.21
Frequency Stability versus Power Supply			
Environment Temperature (°C)	Power Supplied (V)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
20	8.51 (115 %)	-27	-0.44
	6.29 (85 %)	-206	-7.02



시험 성적서

TEST REPORT

페이지(page) : (18) / 총(Total) (18)

5. Used equipment

	Description	Model Name	Manufacturer	Serial Number	Next Cal
■	SIGNAL GENERATOR	SMB100A	ROHDE & SCHWARZ	180607	2026-02-24
■	SPECTRUM ANALYZER	FSV40-N	ROHDE & SCHWARZ	101936	2026-02-24
■	DC BLOCK	PDCB-00012650-SMSF-3	PSATEK INC.	-	2026-03-04
■	DC POWER SUPPLY	E3632A	AGILANT	MY51300069	2026-02-24
■	LOOP ANTENNA	HFH2-Z2	ROHDE & SCHWARZ	100271	2027-03-04
■	TRILOG BROADBAND ANTENNA	VULB 9162	SCHWARZBECK	120	2026-12-09
■	RF Pre Amplifier	SCU08	ROHDE&SCHWARZ	100744	2026-03-24
■	EMI TEST RECEIVER	ESR26	ROHDE&SCHWARZ	101461	2026-03-24

- END OF REPORT.