

FCC/IC TEST REPORT

Job No. : GPEM2208000366EC
Applicant : Dogtra Co., Ltd.
Equipment Under Test (EUT) :
Product Name : DOG TRAINING DEVICE
Model Name : CUE

FCC Authorization Type : Certification
Applied Standards : FCC Part 15 Subpart B, Class B
ICES-003 Issue 7:2020
ANSI C63.4a:2017
FCC ID : SWN-TD14UR
IC Certification : 12166A-TD14UR
Date of Receipt : August 4, 2022
Date of Test : August 12, 2022
Date of Issue : August 19, 2022
Test Results : Complied

Tested by :



Lucas Ku

Reviewed by :



Julia Choi

This test report does not assure KOLAS accreditation.

- 1) The results of this test report are effective only to the items tested.
2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.

Remarks :

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Revision History

Revision	Report number	Description
0	F690501-RF-EMC000804	Initial

1. General Information

1.1 Client Information

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

1.2 Test Laboratory

Name and Address	SGS Korea Co., Ltd.
- Giheung Laboratory	35, Giheungdanji-ro 121beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Gunpo Laboratory	4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, 15807, Republic of Korea
FCC Registration No.	KR0150
IC Registration No.	7837B
Phone	+ 82 31 548 0710
Fax	+ 82 31 548 0719
e-mail	julia.choi@sgs.com

1.3 General Information of E.U.T.

Classification	Specification
Product Name	DOG TRAINING DEVICE
Model Name	CUE
Serial No.	None
EMI Classification	Class B
Test Voltage	AC 120 V, 60 Hz
Rated Voltage	DC 5 V
Highest Internal Frequency	27.195 MHz
H/W Version	Rev1.0
S/W Version	CUE_RxRev00
Port	USB(C-Type)
Function	Remote dog training device (receiving part)

1.4 Operating Modes and Conditions

Operating mode	Operating Condition
1) C mode	A state that EUT continuously makes electric shock as long as transmitter's button is pushed.
2) P mode	A state that EUT continuously vibrate as long as transmitter's button is pushed.
3) Charge mode	A state that EUT is charged through travel adaptor.

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer	Note
Travel Adaptor	-	-	-	-
DOG TRAINING DEVICE (Transmitter)	CUE	-	Dogtra Co., Ltd.	-
Test Jig	-	-	-	-

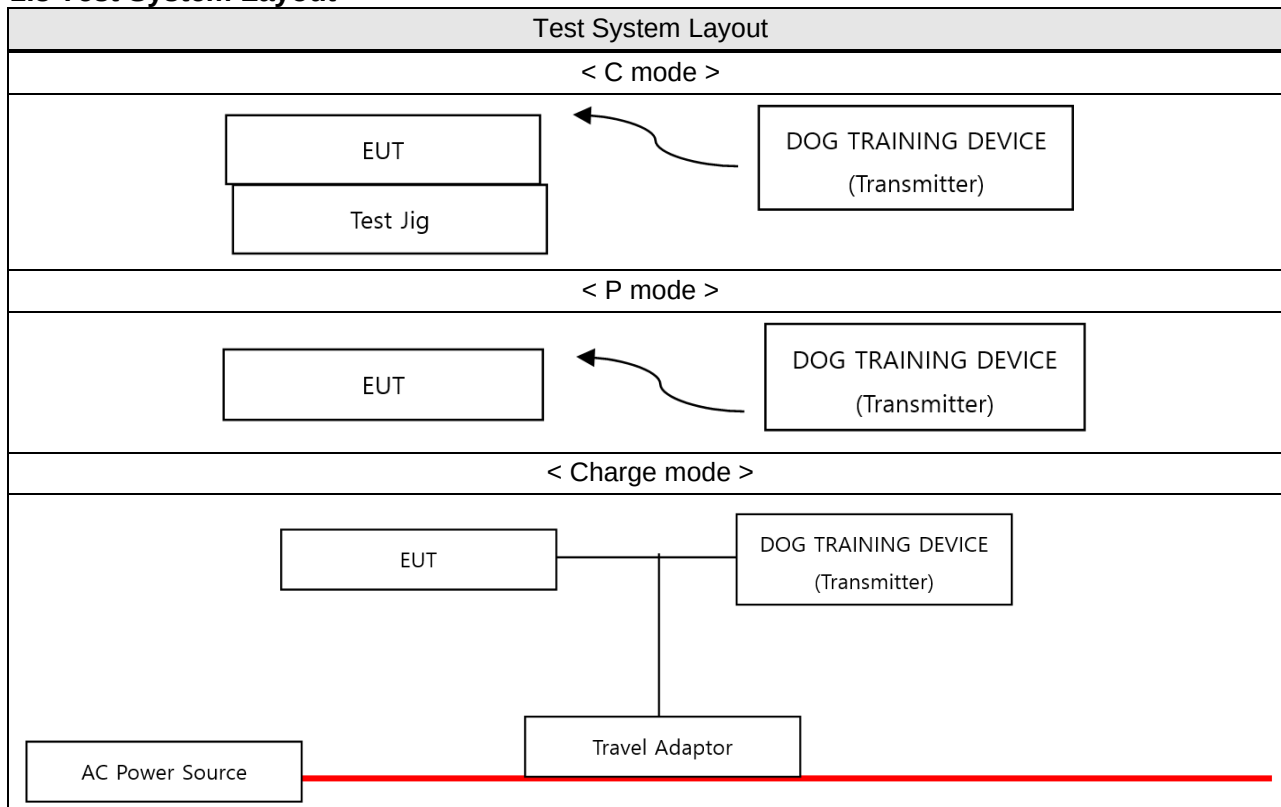
1.6 Cable List

Start		END		Cable Spec.		Used core
Name	I/O Port	Name	I/O Port	Length (m)	Shield	
< C mode >						
EUT	-	DOG TRAINING DEVICE (Transmitter)	-	-	-	-
	2 pin connector	Test Jig	2 pin connector	-	-	-
< P mode >						
EUT	-	DOG TRAINING DEVICE (Transmitter)	-	-	-	-
< Charge mode >						
EUT	DC IN	Travel Adaptor	DC OUT	0.8	Unshield	No
DOG TRAINING DEVICE (Transmitter)	DC IN		DC OUT	0.8	Unshield	No
AC Power Source	-		AC IN	-	-	-

1.7 System Configurations

Description	Model	Serial No.	Manufacturer	Note
MAIN BOARD	CUE LPP	220613	-	-
BATTERY	AE651730P	-	-	-

1.8 Test System Layout



1.9 Modifications/Notes

- There was no modified item during the test.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15 Subpart B ICES-003 Issue 7:2020 ANSI C63.4a:2017	Applicable	No Deviation

1.11 Summary of Test Results

Test Item	Standards	Results
Conducted Emission	FCC Part 15 Subpart B Section 15.107 ICES-003 Issue 7:2020 ANSI C63.4a:2017	Complied
Radiated Emission	FCC Part 15 Subpart B Section 15.109 ICES-003 Issue 7:2020 ANSI C63.4a:2017	Complied

Note : Test methods of all test items are performed according to the basic standards in this table.

EMISSION

2.1 Test Results

Test Items	Standards	Test Results
Conducted Emission	FCC Part 15 Subpart B Section 15.107 ICES-003 Issue 7:2020 ANSI C63.4a:2017	Complied
Radiated Emission	FCC Part 15 Subpart B Section 15.109 ICES-003 Issue 7:2020 ANSI C63.4a:2017	Complied

2.2 Test Method and Limits

2.2.1 Test Method

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	0.15 MHz ~ 30 MHz	9 kHz	-
Radiated Emission	30 MHz ~ 1 GHz	120 kHz	10 m & 3 m
	Above 1 GHz	1 MHz	3 m

Note : 10 m method of radiated emission measurement is only applied to Class A equipment over the frequency range of 30 MHz ~ 1 GHz. Except this, 3 m method is applied to Class B equipment over the frequency range of 30 MHz ~ 1 GHz and Class A and Class B equipment above 1 GHz.

2.2.2 Test Limits

-Conducted Emission Limits

Frequency Range	Limits(dB μ V)		Class
	Quasi-peak	Average	
0.15 MHz ~ 0.5 MHz	79	66	Class A
0.5 MHz ~ 30 MHz	73	60	
0.15 MHz ~ 0.5 MHz	66 to 56	56 to 46	Class B
0.5 MHz ~ 5 MHz	56	46	
5 MHz ~ 30 MHz	60	50	

Note : The lower limit shall apply at the transition frequencies. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

-Radiated Emission Limits below 1 GHz

[FCC Part 15 Subpart B]

Frequency Range	Limits(dB μ V/m)	Class
	Quasi-peak	
30 MHz ~ 88 MHz	39.0	Class A (10 m method)
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 960 MHz	46.4	
960 MHz ~ 1 GHz	49.5	
30 MHz ~ 88 MHz	40.0	Class B (3 m method)
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 960 MHz	46.0	
960 MHz ~ 1 GHz	54.0	

[ICES-003 Issue 7 : 2020]

Frequency Range	Limits(dB μ V/m)	Class
	Quasi-peak	
30 MHz ~ 88 MHz	40.0	Class A (10 m method)
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 230 MHz	46.4	
230 MHz ~ 960 MHz	47.0	
960 MHz ~ 1 GHz	49.5	
30 MHz ~ 88 MHz	50.0	Class A (3 m method)
88 MHz ~ 216 MHz	54.0	
216 MHz ~ 230 MHz	56.9	
230 MHz ~ 960 MHz	57.0	
960 MHz ~ 1 GHz	60.0	
30 MHz ~ 88 MHz	30.0	Class B (10 m method)
88 MHz ~ 216 MHz	33.1	
216 MHz ~ 230 MHz	35.6	
230 MHz ~ 960 MHz	37.0	
960 MHz ~ 1 GHz	43.5	
30 MHz ~ 88 MHz	40.0	Class B (3 m method)
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 230 MHz	46.0	
230 MHz ~ 960 MHz	47.0	
960 MHz ~ 1 GHz	54.0	

-Radiated Emission Limits above 1 GHz (3 m method)

[FCC Part 15 Subpart B]

Frequency Range	Limits(dB μ V/m)		Class
	Average	Peak	
Above 1 GHz	59.5	79.5	Class A
Above 1 GHz	54.0	74.0	Class B

Note : The limits of class A equipment is extrapolated using an extrapolation factor of 20 dB/decade because it was measured at 3 m distance not 10 m distance.

[ICES-003 Issue 7 : 2020]

Frequency Range	Limits(dB μ V/m)		Class
	Average	Peak	
Above 1 GHz	60.0	80.0	Class A
Above 1 GHz	54.0	74.0	Class B

2.3 Conducted Disturbance

The initial preliminary exploratory scans were performed over the measuring frequency range(0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and CISPR-Average detector and using the EMI measuring software. The final test data was measured using a Quasi-Peak detector and CISPR-Average detector.

Note. Measuring software

- Giheung Lab.: EMC32(V10.40.10) from R&S
- Gunpo Lab.: EMC32(V V8.52.0) from R&S

2.3.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESU8	R&S	100128	2023.05.26
2-LINE V-NETWORK	ENV216	R&S	101180	2022.08.21
PULSE LIMITER	ESH3-Z2	R&S	100283	2022.08.21

2.3.2 Test Site

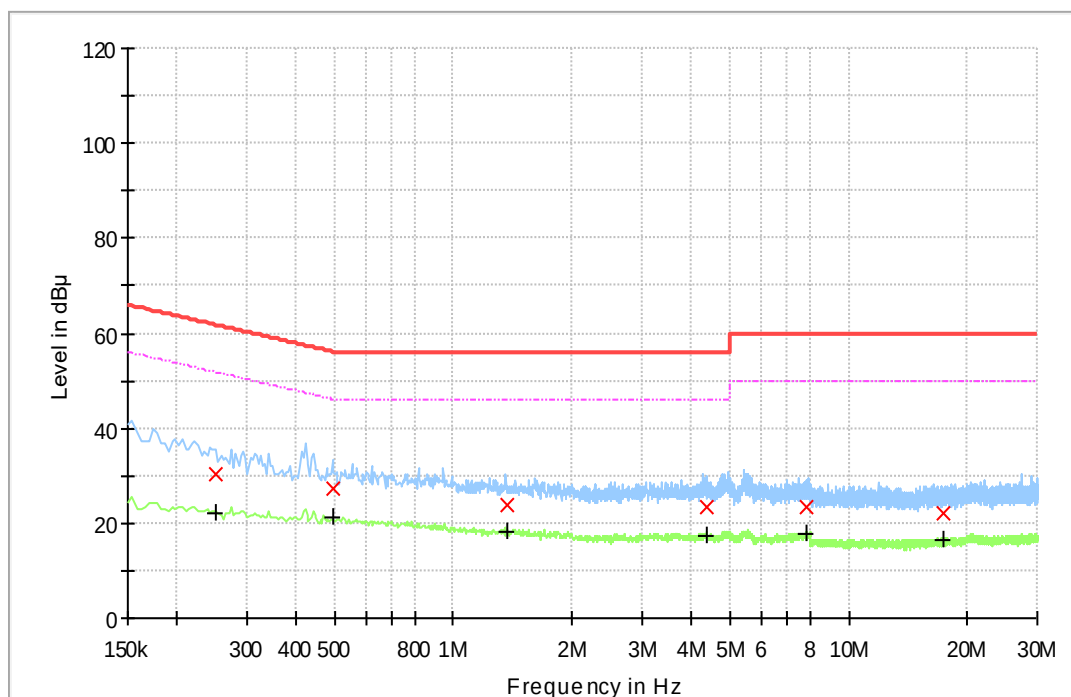
Shield Room in Giheung Laboratory

2.3.3 Environment Conditions

Temperature	(Minimum 19.8, Maximum 20.1) °C
Humidity	(Minimum 49.0, Maximum 51.0) % R.H.
Atmospheric Pressure	(Minimum 100.1, Maximum 100.1) kPa
Test Date	August 12, 2022

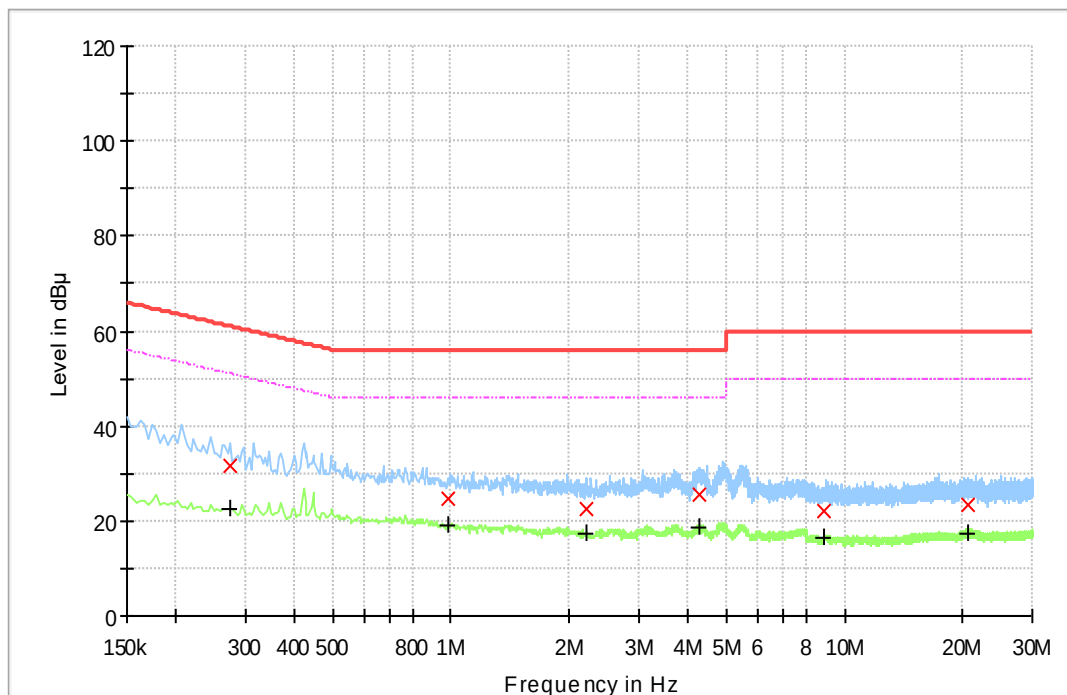
2.3.4 Test Results

- Test Mode : Charge



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.250	---	22.10	51.76	29.66	15 000.0	9.000	L1	ON	19.6
0.250	30.36	---	61.76	31.39	15 000.0	9.000	L1	ON	19.6
0.494	---	21.02	46.10	25.08	15 000.0	9.000	L1	ON	19.9
0.494	27.13	---	56.10	28.97	15 000.0	9.000	L1	ON	19.9
1.374	---	18.23	46.00	27.77	15 000.0	9.000	L1	ON	19.7
1.374	23.72	---	56.00	32.28	15 000.0	9.000	L1	ON	19.7
4.374	---	17.37	46.00	28.63	15 000.0	9.000	L1	ON	19.9
4.374	23.22	---	56.00	32.78	15 000.0	9.000	L1	ON	19.9
7.790	---	17.71	50.00	32.29	15 000.0	9.000	L1	ON	20.0
7.790	23.35	---	60.00	36.65	15 000.0	9.000	L1	ON	20.0
17.418	---	16.35	50.00	33.65	15 000.0	9.000	L1	ON	20.5
17.418	21.96	---	60.00	38.04	15 000.0	9.000	L1	ON	20.5



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.274	---	22.61	51.00	28.38	15 000.0	9.000	N	ON	19.6
0.274	31.70	---	61.00	29.30	15 000.0	9.000	N	ON	19.6
0.978	---	19.20	46.00	26.80	15 000.0	9.000	N	ON	19.7
0.978	24.80	---	56.00	31.20	15 000.0	9.000	N	ON	19.7
2.206	---	17.13	46.00	28.87	15 000.0	9.000	N	ON	19.8
2.206	22.72	---	56.00	33.28	15 000.0	9.000	N	ON	19.8
4.254	---	18.56	46.00	27.44	15 000.0	9.000	N	ON	19.9
4.254	25.46	---	56.00	30.54	15 000.0	9.000	N	ON	19.9
8.854	---	16.25	50.00	33.75	15 000.0	9.000	N	ON	20.0
8.854	22.02	---	60.00	37.98	15 000.0	9.000	N	ON	20.0
20.690	---	17.47	50.00	32.53	15 000.0	9.000	N	ON	20.8
20.690	23.32	---	60.00	36.68	15 000.0	9.000	N	ON	20.8

Measurement Uncertainty : See Appendix A

Note1 : • Line (L1) : Hot • Line (N) : Neutral

- Margin = Limit – Quasi Peak or CAverage
- Corr. = LISN Factor + Cable loss + Pulse Limiter Factor

Ex) In case

Freq ; 0.5 MHz, level ; 30 dB(μ V), CL ; 0.2 dB, LISN ; 9.5 dB, P/L: 9.8 dB

Result = Level + CL + LISN + P/L

= 30 + 0.2 + 9.5 + 9.8

= 49.5

Margin = Limit – Result

= 79 - 49.5

= 29.5

2.4 Radiated Emission

The initial preliminary exploratory scans were performed over the measuring frequency range (30 MHz to 1 GHz) using a max hold mode incorporating a Peak detector by using the EMI measuring software. The final test data was measured using a Quasi-Peak detector below 1 GHz, Peak and CISPR-Average detector above 1 GHz. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Note. Measuring software

- Giheung Lab.: EMC32(V9.26.01) from R&S
- Gunpo Lab.: EP5RE(V5.3.70) from TOYO

2.4.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
EMI TEST RECEIVER	ESU40	R&S	100075	2023.01.19
Hybrid ANTENNA	VULB 9163	SCHWARZBECK	9163-396	2023.03.24
PREAMPLIFIER	AM-1431	MITEQ	1336160	2023.05.23

Note: The calibration period of every equipment is 1 year.

2.4.2 Test Site

10 m SEMI-ANECHOIC CHAMBER in Giheung Laboratory

2.4.3 Environment Conditions

Below 1 GHz

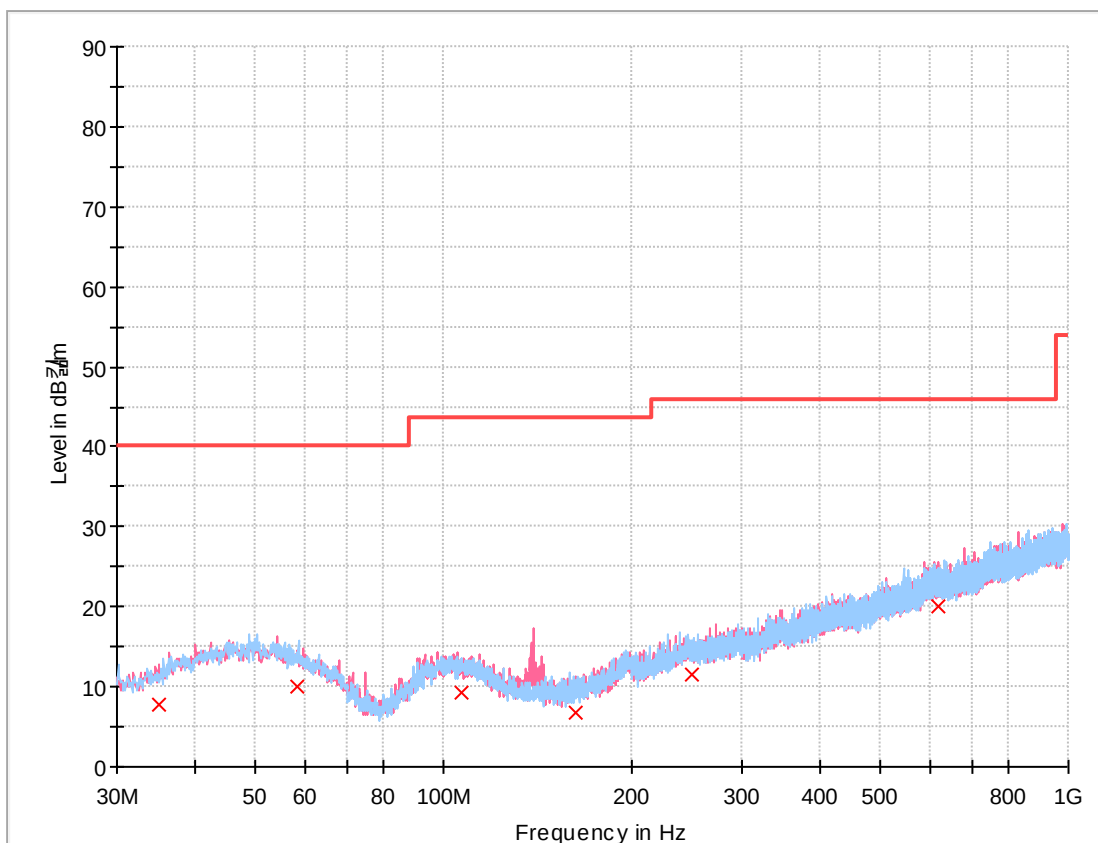
Temperature	(Minimum 20.2, Maximum 21.5) °C
Humidity	(Minimum 49.0, Maximum 50.0) % R.H.
Atmospheric Pressure	(Minimum 100.0, Maximum 100.0) kPa
Test Date	August 12, 2022

2.4.4 Test Results

Below 1 GHz (3 m method)

[FCC Part 15 Subpart B]

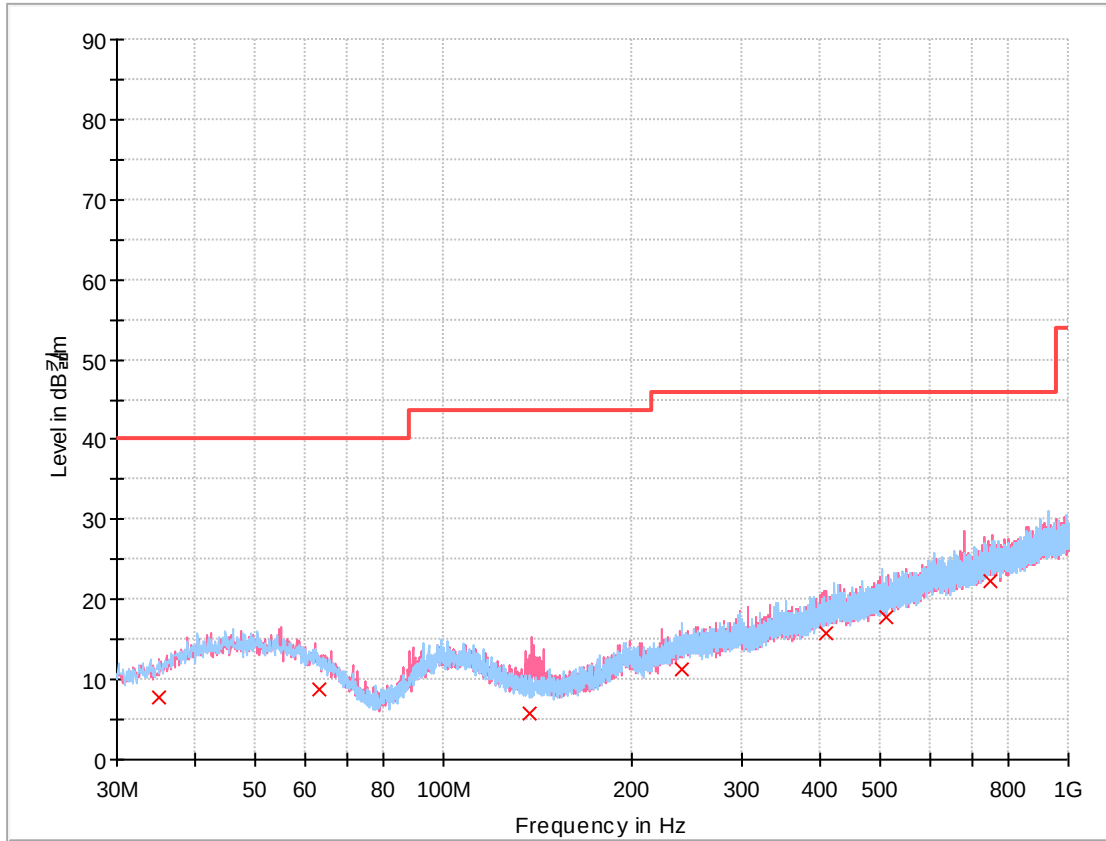
- Test Mode : C mode



Final Result

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.044	7.84	40.00	32.16	15 000.0	120.000	118.0	V	11.0	-19.9
58.324	10.11	40.00	29.89	15 000.0	120.000	229.0	V	109.0	-18.0
106.727	9.39	43.50	34.11	15 000.0	120.000	126.0	V	317.0	-18.8
162.211	6.74	43.50	36.76	15 000.0	120.000	253.0	V	194.0	-21.6
248.832	11.57	46.00	34.43	15 000.0	120.000	119.0	V	0.0	-16.8
621.021	20.08	46.00	25.92	15 000.0	120.000	321.0	V	281.0	-7.9

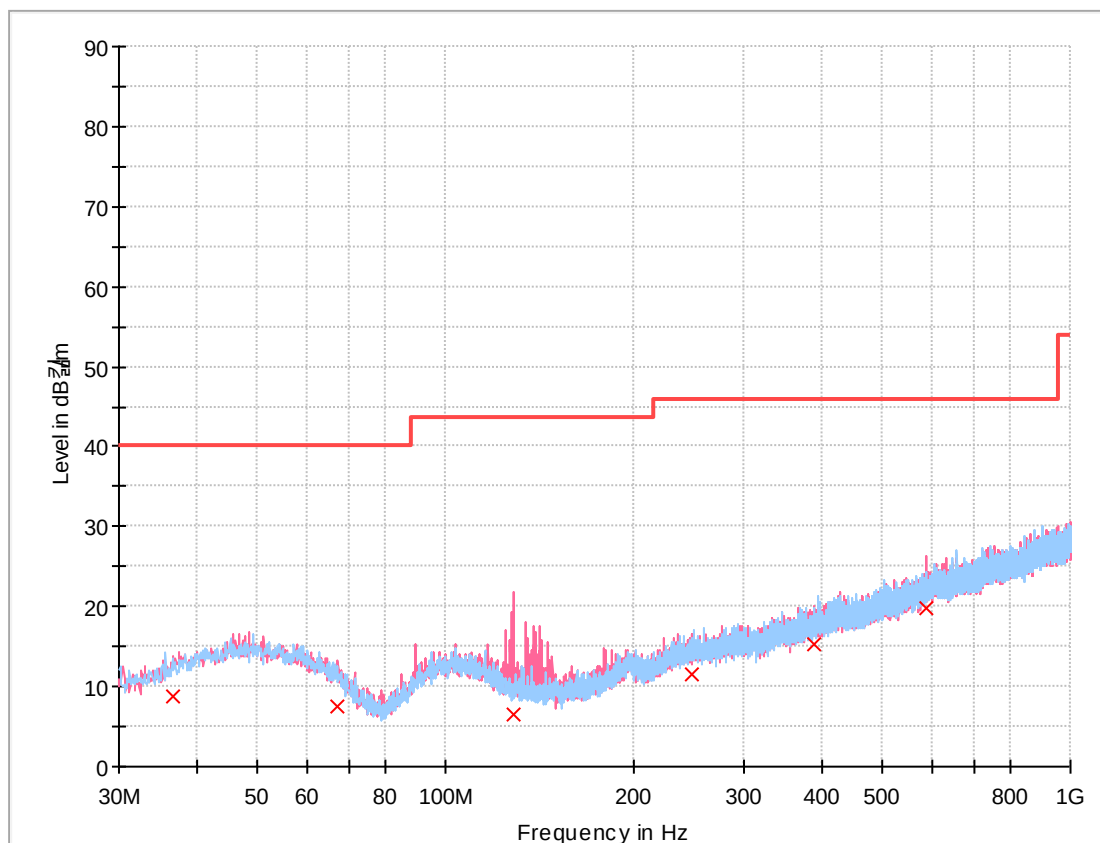
- Test Mode : P mode



Final Result

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.044	7.80	40.00	32.20	15 000.0	120.000	130.0	V	127.0	-19.9
63.368	8.84	40.00	31.16	15 000.0	120.000	209.0	V	108.0	-19.3
137.670	5.86	43.50	37.64	15 000.0	120.000	187.0	V	216.0	-22.2
240.587	11.17	46.00	34.83	15 000.0	120.000	209.0	H	354.0	-17.1
410.725	15.87	46.00	30.13	15 000.0	120.000	334.0	V	258.0	-12.3
512.187	17.75	46.00	28.25	15 000.0	120.000	136.0	H	208.0	-10.2
747.509	22.29	46.00	23.71	15 000.0	120.000	140.0	V	24.0	-6.0

- Test Mode : Charge

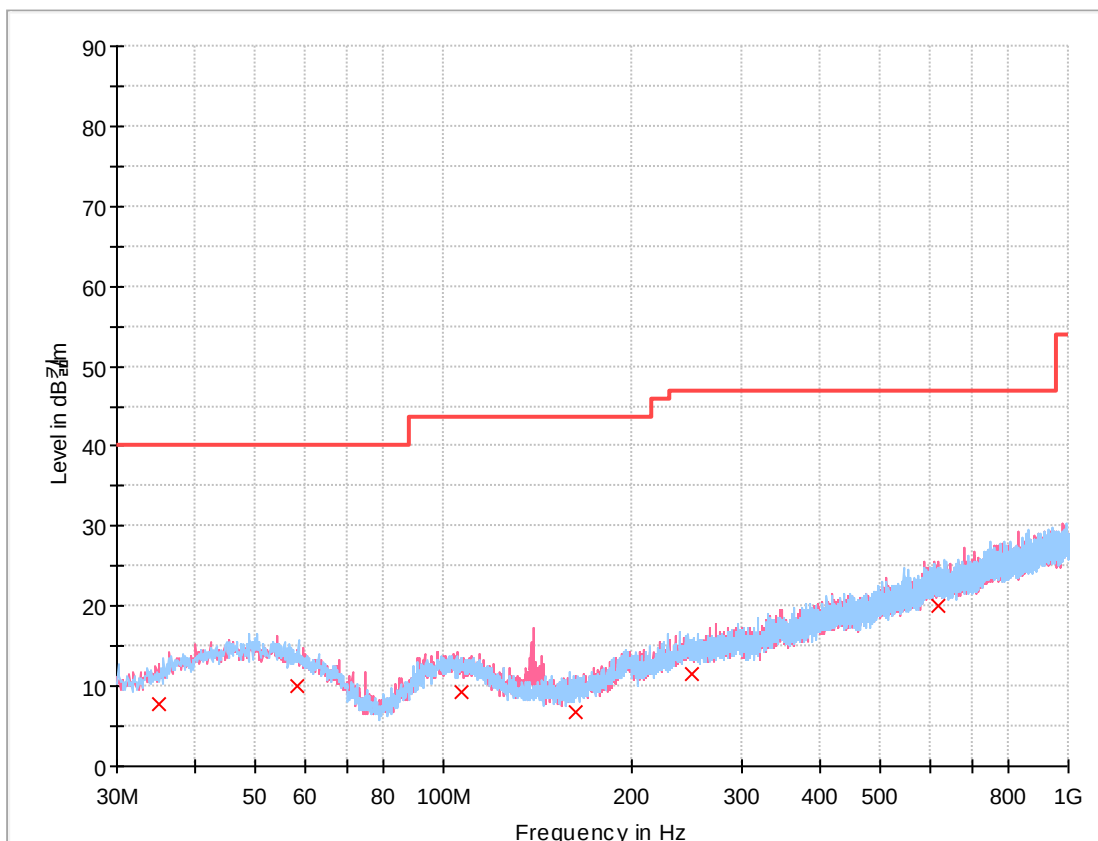


Final Result

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.693	8.87	40.00	31.13	15 000.0	120.000	121.0	V	194.0	-19.3
67.248	7.59	40.00	32.41	15 000.0	120.000	108.0	V	302.0	-20.5
128.164	6.63	43.50	36.87	15 000.0	120.000	220.0	V	170.0	-21.6
247.183	11.50	46.00	34.50	15 000.0	120.000	209.0	V	0.0	-16.8
388.609	15.18	46.00	30.82	15 000.0	120.000	107.0	H	59.0	-13.1
589.690	19.81	46.00	26.19	15 000.0	120.000	117.0	V	202.0	-8.3

[ICES-003 Issue 7:2020]

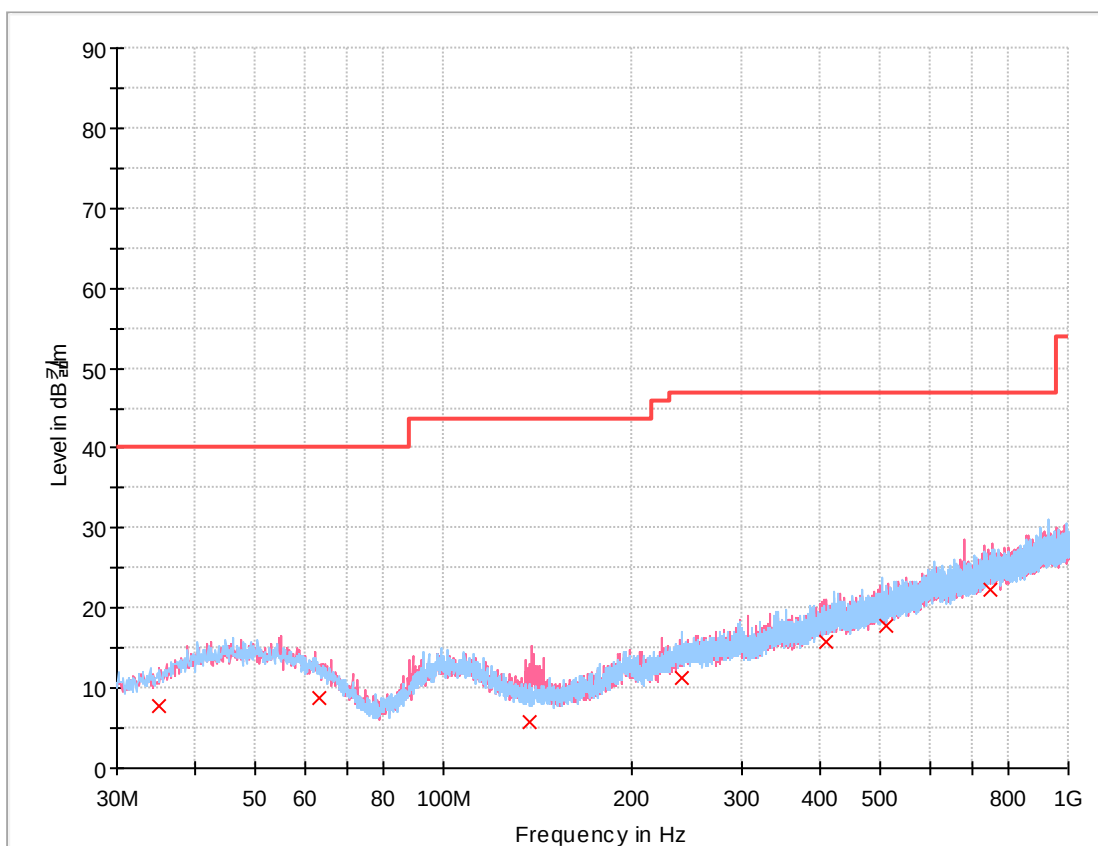
- Test Mode : C mode



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.044	7.84	40.00	32.16	15 000.0	120.000	118.0	V	11.0	-19.9
58.324	10.11	40.00	29.89	15 000.0	120.000	229.0	V	109.0	-18.0
106.727	9.39	43.50	34.11	15 000.0	120.000	126.0	V	317.0	-18.8
162.211	6.74	43.50	36.76	15 000.0	120.000	253.0	V	194.0	-21.6
248.832	11.57	46.00	34.43	15 000.0	120.000	119.0	V	0.0	-16.8
621.021	20.08	46.00	25.92	15 000.0	120.000	321.0	V	281.0	-7.9

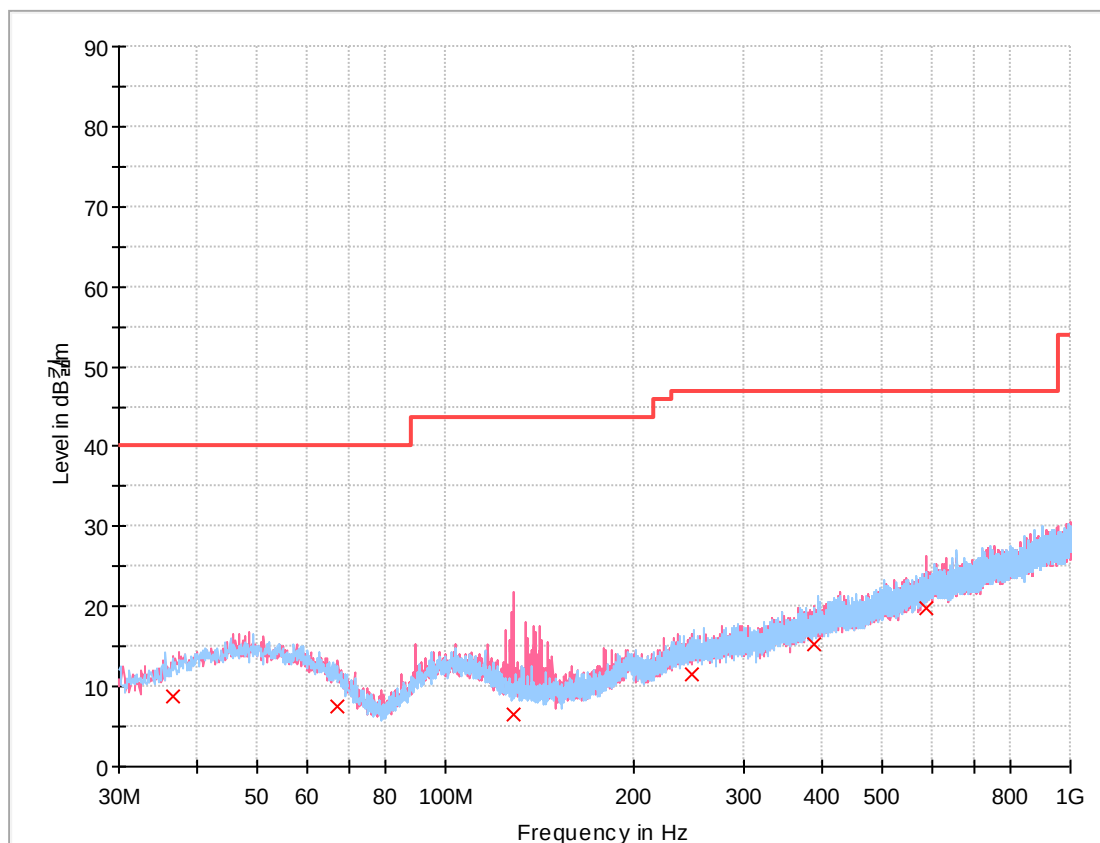
- Test Mode : P mode



Final Result

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.044	7.80	40.00	32.20	15 000.0	120.000	130.0	V	127.0	-19.9
63.368	8.84	40.00	31.16	15 000.0	120.000	209.0	V	108.0	-19.3
137.670	5.86	43.50	37.64	15 000.0	120.000	187.0	V	216.0	-22.2
240.587	11.17	46.00	34.83	15 000.0	120.000	209.0	H	354.0	-17.1
410.725	15.87	46.00	30.13	15 000.0	120.000	334.0	V	258.0	-12.3
512.187	17.75	46.00	28.25	15 000.0	120.000	136.0	H	208.0	-10.2
747.509	22.29	46.00	23.71	15 000.0	120.000	140.0	V	24.0	-6.0

- Test Mode : Charge



Final Result

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.693	8.87	40.00	31.13	15 000.0	120.000	121.0	V	194.0	-19.3
67.248	7.59	40.00	32.41	15 000.0	120.000	108.0	V	302.0	-20.5
128.164	6.63	43.50	36.87	15 000.0	120.000	220.0	V	170.0	-21.6
247.183	11.50	46.00	34.50	15 000.0	120.000	209.0	V	0.0	-16.8
388.609	15.18	46.00	30.82	15 000.0	120.000	107.0	H	59.0	-13.1
589.690	19.81	46.00	26.19	15 000.0	120.000	117.0	V	202.0	-8.3

Measurement Uncertainty : See Appendix A

Note : • POL H = Horizontal

• POL V = Vertical

• Margin = Limit – Quasi Peak

• Corr. = Antenna Factor + Cable loss – Amplifier Gain

Ex) In case

Freq ; 100 MHz, level ; 30 dB(μ V/m), AF ; 10 dB/m, CL ; 4 dB, Amp ; 25 dB

Result = Level + AF + CL – Amp

= 30 + 10 + 4 - 25

= 19Margin = Limit – Result

= 43.5 – 19

= 24.5

Appendix A : Measurement Uncertainty

- Giheung Laboratory

Test Method		Measurement Uncertainty	
Conducted Emission		ENV216	3.5 dB (The confidential level is 95 %, $k=2$)
		ESH2-Z5	3.2 dB (The confidential level is 95 %, $k=2$)
		ESH3-Z6	3.2 dB (The confidential level is 95 %, $k=2$)
		NNLK8129	3.2 dB (The confidential level is 95 %, $k=2$)
Conducted Emission - Signal		ISN T800	5.6 dB (The confidential level is 95 %, $k=2$)
		ISNT8-Cat6	5.4 dB (The confidential level is 95 %, $k=2$)
		ISN S751	5.6 dB (The confidential level is 95 %, $k=2$)
Discontinuous		3.4 dB (The confidential level is 95 %, $k=2$)	
Disturbance Voltage at Antenna Terminal		2.0 dB (The confidential level is 95 %, $k=2$)	
Radiated Emission	9 kHz ~30 MHz	Horizontal	3.4 dB (The confidential level is 95 %, $k=2$)
		Vertical	3.4 dB (The confidential level is 95 %, $k=2$)
	30 MHz ~ 1 000 MHz	Horizontal	4.4 dB (The confidential level is 95 %, $k=2$)
		Vertical	4.6 dB (The confidential level is 95 %, $k=2$)
	1 GHz ~ 18 GHz	Horizontal	4.0 dB (The confidential level is 95 %, $k=2$)
		Vertical	4.0 dB (The confidential level is 95 %, $k=2$)

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Test Method		Measurement Uncertainty	
Conducted Emission		ENV216	3.4 dB (The confidential level is 95 %, $k=2$)
		ESH2-Z5	3.2 dB (The confidential level is 95 %, $k=2$)
		ESH3-Z6	3.4 dB (The confidential level is 95 %, $k=2$)
Conducted Emission - Signal		ISN T800	5.6 dB (The confidential level is 95 %, $k=2$)
		ISNT8-Cat6	5.6 dB (The confidential level is 95 %, $k=2$)
		ISN S751	7.3 dB (The confidential level is 95 %, $k=2$)
Disturbance Voltage at Antenna Terminal		2.4 dB (The confidential level is 95 %, $k=2$)	
Radiated Emission	9 kHz ~30 MHz	Horizontal	3.3 dB (The confidential level is 95 %, $k=2$)
		Vertical	3.3 dB (The confidential level is 95 %, $k=2$)
	30 MHz ~ 1 000 MHz	Horizontal	4.8 dB (The confidential level is 95 %, $k=2$)
		Vertical	5.2 dB (The confidential level is 95 %, $k=2$)
	1 GHz ~ 18 GHz	Horizontal	3.9 dB (The confidential level is 95 %, $k=2$)
		Vertical	4.0 dB (The confidential level is 95 %, $k=2$)

- End of Test Report -