

FCC/IC- TEST REPORT

Report Number	:	709502306448-00A		Date of Issue:	November 07, 2023					
Model	:	MT01-1245-069001	1T01-1245-069001							
Product Type	:	DCFT 15 ARC Motor								
Applicant	:	Rollease Acmeda Inc								
Address	:	7th Floor / 750 East Ma	in Street, S	Stamford, CT 069	02, USA					
Production Facility		Ningbo Dooya Mechani	c & Electro	onic Technology (So., Ltd.					
Address	:	No.168 Shengguang Road, Luotuo, Zhenhai 315202 Ningbo,								
	:	Zhejiang province Peop	le's Repub	lic of China						
Test Result	:	Positive	D Negativ	ve						
Total pages including Appendices	:	25								

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Company name: No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China FCC Registration 820234 Number: Designation CN1183 Number: IC Company 25988 Number: CAB identifier: CN0101 Telephone: +86 21 6141 0123 Fax: +86 21 6140 8600





3 Description of the Equipment Under Test

Product:	DCFT 15 ARC Motor
Model no./HVIN:	MT01-1245-069001
FCC ID:	2AGGZ003B9ACA52
IC:	21769-003B9ACA52
Rating:	DC 12V
RF Transmission Frequency:	433.92 MHz
No. of Operated Channel:	1
No. of Operated Channel: Modulation:	1 FSK
Modulation:	FSK

Test sample no.: SHA-751784-2 The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



4 Summary of Test Standards

Test Standards					
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES				
	Subpart C - Intentional Radiators				
RSS-Gen Issue 5	General Requirements for the Certification of Radio Apparatus				
Amendment 2					
February 2021					
RSS-210 Issue 10	RSS-210 - Licence-exempt Radio Apparatus (All Frequency				
December 2019	Bands): Category I Equipment				

All the test methods were according to ANSI C63.10-2013.



5 Summary of Test Results

	Technical Requiremen	ts		
FCC Part 15 Subpa	art C, RSS-210 Issue 10			
Test Condition		Pages	Test Site	Test Result
§15.207, RSS-GEN A8.8	Conducted emission AC power port	10-14	Shield room	Pass
§15.205, §15.209, 15.35 (c)§15.231(b), RSS-210 A.1.2	Radiated Emission, 30MHz to 4.5GHz	15-18	3m chamber	Pass
§15.231(c), RSS-210 A.1.3	Bandwidth Measurement & 99% Occupied Bandwidth	19-20	Shield room	Pass
§15.231(a)(1), RSS- 210 A.1.1(b)	Deactivation Time	21	Shield room	Pass
§15.203, RSS-Gen 6.	Antenna requirement		See Note 2	Pass

Note 1: N/A=Not Applicable. Conducted emission is not apply for battery operated device. Note 2: The EUT uses a Line Antenna, which gain is 1.4dBi for 433.92MHz SRD. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AGGZ003B9ACA52, IC: 21769-003B9ACA52 complies with Section 15.205, 15.209, 15.231 of the FCC Part 15, Subpart C Rules, RSS-Gen Issue 5 and RSS-210 Issue 10.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- I Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date:

August 25, 2023

Testing Start Date: August 29, 2023

Testing End Date:

August 29, 2023

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Prepared by:

Reviewed by:

Hui TONG EMC Section Manager Wenqiang LU EMC Project Engineer

Tested by:

Guochengie

Chengjie GUO EMC Test Engineer





7 Systems test configuration

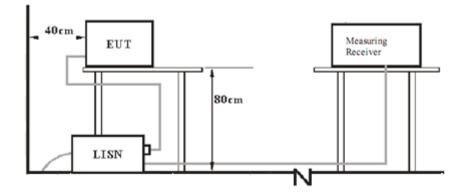
Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)

Report Number: 709502306448-00A

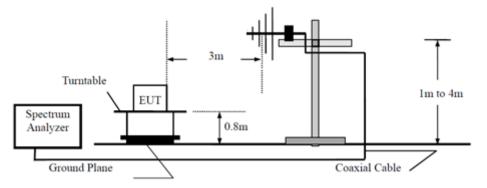
8 Test Setups

8.1 AC Power Line Conducted Emission test setups

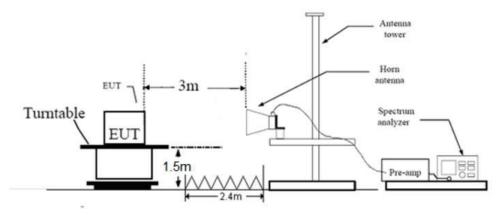


8.2 Radiated test setups

Below 1GHz



Above 1GHz



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9 Test Methodology



9.1 Conducted Emission

Test Method

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency	QP Limit	AV Limit			
MHz	dBµV	dBµV			
0.150-0.500	66-56*	56-46*			
0.500-5	56	46			
5-30	60	50			
Decreasing linearly with logarithm of the frequency					



150k-30MHz Conducted Emission Test

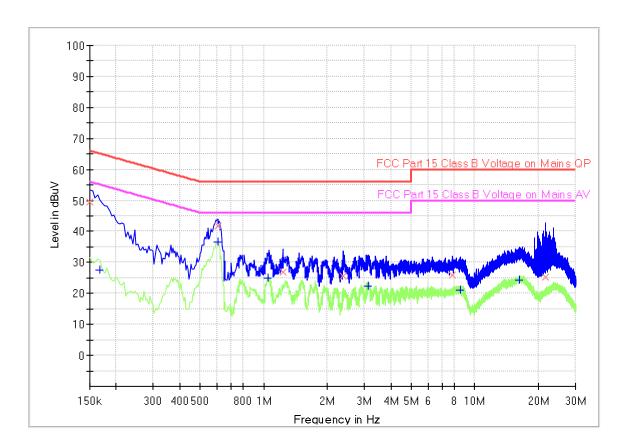
EUT Information

EUT Name: Model Client: Op Cond Operator: Standard Comment: Sample No.: DCFT 15 ARC Motor MT01-1245-069001 Rollease Acmeda Pty Ltd Power on, AC 120V, T21.9, H61.1%, P100.1kPa Guochengjie FCC 15B Phase L SHA-751784-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



EMC_SHA_F_R_02.05E

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Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)	Time	(kHz)		(dB)
					(ms)			
0.150000	49.56		66.00	16.44	1000.0	9.000	L1	19.6
0.168000		27.62	55.06	27.44	1000.0	9.000	L1	19.6
0.604500		36.70	46.00	9.30	1000.0	9.000	L1	19.6
0.604500	41.82		56.00	14.18	1000.0	9.000	L1	19.6
1.045500		24.82	46.00	21.18	1000.0	9.000	L1	19.6
1.230000	26.89		56.00	29.11	1000.0	9.000	L1	19.6
2.377500	25.64		56.00	30.36	1000.0	9.000	L1	19.6
3.129000		22.26	46.00	23.74	1000.0	9.000	L1	19.6
7.867500	25.92		60.00	34.08	1000.0	9.000	L1	19.6
8.529000		21.06	50.00	28.94	1000.0	9.000	L1	19.6
16.183500		24.27	50.00	25.73	1000.0	9.000	L1	19.8
21.597000	25.33		60.00	34.67	1000.0	9.000	L1	20.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator



150k-30MHz Conducted Emission Test

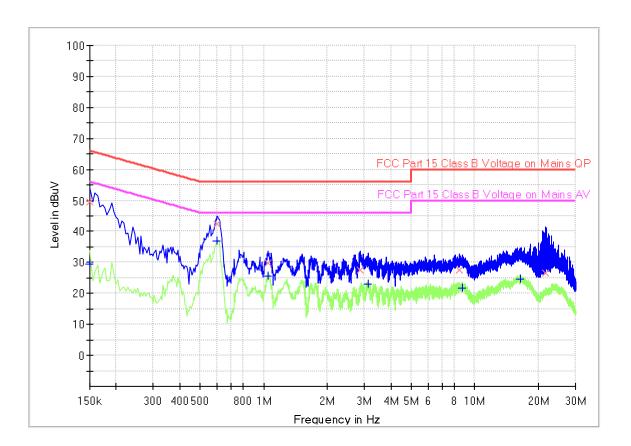
EUT Information

EUT Name: Model Client: Op Cond Operator: Standard Comment: Sample No.: DCFT 15 ARC Motor MT01-1245-069001 Rollease Acmeda Pty Ltd Power on, AC 120V, T21.9, H61.1%, P100.1kPa Guochengjie FCC 15B Phase N SHA-751784-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



EMC_SHA_F_R_02.05E

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Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)	Time	(kHz)		(dB)
					(ms)			
0.150000		29.43	56.00	26.57	1000.0	9.000	Ν	19.6
0.150000	49.65		66.00	16.35	1000.0	9.000	Ν	19.6
0.600000		36.98	46.00	9.02	1000.0	9.000	Ν	19.5
0.600000	42.57		56.00	13.43	1000.0	9.000	Ν	19.5
1.045500		25.51	46.00	20.49	1000.0	9.000	N	19.5
1.045500	29.80		56.00	26.20	1000.0	9.000	Ν	19.5
2.850000	27.66		56.00	28.34	1000.0	9.000	Ν	19.5
3.142500		22.88	46.00	23.12	1000.0	9.000	Ν	19.5
8.430000	27.42		60.00	32.58	1000.0	9.000	Ν	19.6
8.776500		21.65	50.00	28.35	1000.0	9.000	Ν	19.6
16.489500		24.54	50.00	25.46	1000.0	9.000	Ν	19.9
21.570000	26.51		60.00	33.49	1000.0	9.000	Ν	20.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB) Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

9.2 Radiated Emission



Test Method

- 1. 1 The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 6. Use the following spectrum analyzer settings According to C63.10:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p>
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement.
 - For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

7. Repeat above procedures until all frequencies measured were complete.

Limit

According to §15.231 (b) & RSS-210, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions ((Microvolts /meter)		
40.66-40.70	2,250	225		
70-130	1,250	125		
130-174	1,250 to 3,370 *	125 to 375 *		
174-260	3,750	375		
260-470 √	3,750 to 12, 500*	375 to 1,250*		
Above 470	12,500	1,250		

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Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Limits for 15.209 & RSS-GEN Radiated emission limits; general requirements

Frequency	Limit at 3m (dBuV/m)		
0.009 MHz – 0.490 MHz	128.5 to 93.8 ¹		
0.490 MHz – 1.705 MHz	73.8 to 63 ¹		
1.705 MHz – 30 MHz	69.5 ¹		
30 MHz – 88 MHz	40.0 ¹		
88 MHz – 216 MHz	43.5 ¹		
216 MHz – 960 MHz	46.0 ¹		
Above 960 MHz	54.0 ¹		
Above 1000 MHz	54.0 ²		
Above 1000 MHz	74.0 ³		

¹Limit is with detector with bandwidths as defined in CISPR-16-1-1 except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz where an Average detector is used.

²Limit is with 1 MHz measurement bandwidth and using an Average detector ³Limit is with 1 MHz measurement bandwidth and using a Peak detector



Spurious radiated emissions for transmitter

According to C63.10 & RSS-GEN, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Antenna polarization	Frequency (MHz)	Duty Cycle Factor(dB)	Corrected Reading (dBuV/m)	Emission Type	Limit (dBuV/ m)	Margin	Detector
Н	433.908	0	80.723	Fundamental	100.80	20.077	РК
Н	433.908	-22.62	58.103	Fundamental	80.80	22.697	AV
V	433.908	0	76.553	Fundamental	100.80	24.247	РК
V	433.908	-22.62	53.933	Fundamental	80.80	26.867	AV
Н	2169.6	0	36.806	Harmonics	80.80	43.994	РК
Н	3468.0	0	41.881	Harmonics	80.80	38.919	РК
V	2169.8	0	35.837	Harmonics	80.80	44.963	РК

Remark:

1: AV Emission Level= PK Emission Level+20log (duty cycle)

2: Other than listed in the table are attenuated more than 20dB below the permissible limit of the field strength, therefore no data appear in the report.

3: "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

4: Corrected Amplitude = Read level + Corrector factor Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

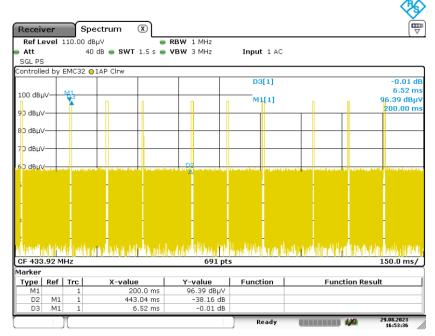
5. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)

6. Corrected Reading = Original Receiver Reading + Correct Factor

7. Only the worst data listed in this report

Duty Cycle = 7.391ms/100 (ms) =7.391% Duty Cycle Factor =20log (Duty Cycle) =-22.62





Date: 29.AUG.2023 16:53:36

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Receiver Spect	rum 🗵				Ē
Ref Level 110.00 dBµV		BRBW 1 MHz			
Att 40 dB SGL PS	😑 SWT 100 ms	VBW З MHz	Input 1 A	.C	
Controlled by EMC32 O1A	P Clrw				
			D2[1]		-0.03 dB 7.391 ms
100 dBµV-12			M1[1]		96.37 dBµV
90 dBµV					3.043 ms
80 dBµV					
70 dBµV					
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dBµV					
dBµV					1
<mark>і 20</mark> dвµv— <mark>tai la lit, lat</mark>	d d d a santa manifal di sant	اللياه وأفان بتحديلت يترتق أطأ	البيبة والالباطية أيبيا	alera, le i liaistendarta e a aire	لأبذارني إيه زايمخان
ult i della maria	and the transfer	The second second	a da la comu	t ha dar an chailteach	e i lui tandi i l
CF 433.92 MHz	I	691 pts	;		10.0 ms/
Marker	Muslus I	Muslus I	E	Function Res	
Type Ref Trc M1 1	X-value 3.043 ms	Y-value 96.37 dBµV	Function	Function Res	
D2 M1 1	7.391 ms	-0.03 dB			
			Ready		29.08.2023 16:52:27

Date: 29.AUG.2023 16:52:27



9.3 Bandwidth Measurement & 99% Occupied Bandwidth

Test Method

- 1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following test receiver settings: Span = approximately 5 times the 20dB bandwidth, centered on a hopping channel RBW =1% to 5% of the 20dB bandwidth of the emission being measured, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth. Record the results.
- 5. Repeat above procedures until all frequencies measured were complete.

Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

The limit for the EUT = 0.25% * 433.92 MHz = 1085 kHz

Test Result

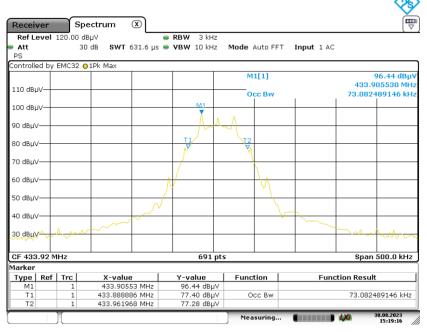
Channel	20dB Bandwidth (KHz)	Limit (KHz)
1	81.94	1085
Channel	99% Bandwidth (KHz)	Limit (KHz)
1	73.08	N/A



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Receiver		ectrum 🙁				[
Ref Level			RBW 3 kHz			
PS Att	3	0 dB SWT 632.4 μs	• VBW 10 KHZ	Mode Auto FF	T Input 1 AC	
Controlled b	V EMC32	1Pk Max				
	,	_		D3[1]		-0.03
110 dBµV-						81.9420 k
				M1[1]		76.40 dB
100 dBµV-			M2			433.8841040 M
			_ <u>⊼</u> ,			
90 dBµV—		+	- A	had -		
			MI			
30 dBµV	D1 76.24	D dBuV		- V		
70 dBµV	01 /0.21					
, o aopv			1	Ν		
60 dBµV						
			Л	× /		
50 dBµV						
40 dBuV-						
40 uвµv—					- mon	
30 480/	a.A.					man
CF 433.92	MHz		10001	pts		Span 500.0 kł
1arker				•		
Type Ref	f Trc	X-value	Y-value	Function	Funct	ion Result
M1	1	433.884104 MHz	76.40 dBµ\			
M2	1	433.905101 MHz	96.24 dBµ\			
D3 M	1 1	81.942 kHz	-0.03 dB			

Date: 29.AUG.2023 16:25:31



Date: 30.AUG.2023 15:19:16

9.4 Deactivation Time



Test Method

- 1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT in transmitting mode.
- 3. Set center frequency of spectrum analyzer=operating frequency.
- 4. Set the spectrum analyzer as RBW=120 KHz, VBW=1MHz, Span=0Hz.
- 5. Repeat above procedures until all frequency measured was complete.

Limit

According to FCC Part 15.231 (a) & RSS-210 A.1.1(b), the transmitter shall be complied the following requirements:

(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

(3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

Test Result

nel	Frequenc	у	0	Deactivatio	on Time		Result
	433.92MI	Ηz	2	66.42ms			Pass
	Receiver	ctrum 🛞					
	Ref Level 94.00 dBµ Att 30 d SGL PS Controlled by EMC32 O	B 🖶 SWT 6 s 🖶 VB	₩ 1 MHz ₩ 3 MHz	Input 1 AC			
	90 dBuV M1 D2 80 dBuV 70 dBuV			D3[1]	1		-33.96 dB 5.00000 s 82.03 dBµV 138.31 ms
	60 dbuX					nan and and a	
))(영 <mark>) (영<mark>년11), () () () () () () () () () () () () () </mark></mark>	an Line of Roman and Line and Andreas	1. 1. 100.2. cd. 100. d)) 1 - 1 - 1 - 1 - 1 - 1 691 pts	n i Mingara ina	on di terration Na di terration	NITATIT IL VIII I	14(1), billin,
	CF 433.92 MHZ Marker		691 pts				600.0 ms/
	Type Ref Trc	X-value 138.31 ms	Y-value 82.03 dBµV	Function	Fund	tion Resul	t _
	M1 1 D2 M1 1 D3 M1 1	266.42 ms 5.0 s	-0.12 dB -33.96 dB				

Date: 29.AUG.2023 16:42:58



List of Test Instruments

RF Test					
Description	Manufacturer	Model no.	Serial no.	Calibration Date	Calibration Due
Signal and spectrum analyzer	R&S	FSV40	S1503003-YQ-EMC	2022-8-01	2023-7-31

Radiated Emission Test

USED	Equipment Name	Model	Manufacturer	Equipment ID.	Calibration Date	Calibration Due
	EMI test receiver	ESR3	R&S	S1503109-YQ-EMC	2022-8-01	2023-7-31
	Trilog super broadband test antenna	SCHWARZBE CK	VULB9168	S1808296-YQ-EMC	2021-9-23	2024-9-22
	Double-ridged waveguide horn antenna	HF907	R&S	S1503009-YQ-EMC	2021-4-13	2024-4-12
	Signal conditioning unit	SCU-18D	R&S	S1503012-YQ-EMC	2022-8-01	2023-7-31
	Signal and spectrum analyzer	FSV40	R&S	S1503003-YQ-EMC	2022-8-01	2023-7-31
\square	Loop antenna	HFH2-Z2	R&S	S1503013-YQ-EMC	2022-6-15	2024-6-14





11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Radiated Disturbance	30MHz to 1GHz, 5.03dB (Horizontal)
	5.11dB (Vertical)
	1GHz to 18GHz, 5.15dB (Horizontal)
	5.12dB (Vertical)
	18GHz to 25GHz, 4.76dB

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.

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13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

THE END