

FCC - TEST REPORT

Report Number	:	68.940.22.0054.01		Date of Iss	sue:	June 6, 2022
Model	:	E359-003, E364-003, E369-003, E370-003, S058-003, E511-003, E520-003, E521-003, E526-003, E527-003,	E38 E51 E52	81-003, S05 6-003, E51 22-003, E52	2-003, 7-003, 3-003,	S053-003, S056-003, E518-003, E519-003, E524-003, E525-003,
Product Type	:	Remote controller				
Applicant	:	DOUBLEEAGLE INDU	IST	RY (CHINA) LIMIT	ED
Address	:	XINGDA INDUSTRIAL	PA	ARK, CHEN	GHAI, S	SHANTOU CITY,
		GUANGDONG PROV	NC	E, CHINA		
Manufacturer	:	DOUBLEEAGLE INDU	IST	RY (CHINA) LIMIT	ED
Address	:	XINGDA INDUSTRIAL	PA	ARK, CHEN	GHAI, S	SHANTOU CITY,
		GUANGDONG PROV	NC	E, CHINA		
Test Result	:	■ Positive	yati	ve		
Total pages including Appendices	:	25				

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, 518052 China
FCC Registration Number:	514049
FCC Designation Number:	CN5009
Telephone: Fax:	86 755 8828 6998 86 755 8828 5299



3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	Remote controller
Model no.:	E359-003, E364-003, E365-003, E366-003, E367-003, E368-003, E369-003, E370-003, E381-003, S052-003, S053-003, S056-003, S058-003, E511-003, E516-003, E517-003, E518-003, E519-003, E520-003, E521-003, E522-003, E523-003, E524-003, E525-003, E526-003, E527-003, E528-003, E529-003, E547-003, E548-003
FCC ID:	2AAFASY-E359-003-05
Options and accessories:	NIL
Ratings:	2 x 1.5VDC AA size batteries (for remote controller)
RF Transmission Frequency:	2405MHz-2475MHz
Modulation:	GFSK
Antenna Type:	Monopole Antenna
Antenna Gain:	0dBi
Description of the EUT:	The product is remote controller operated with 2.4GHz wireless function, the transmitting frequency range is 2405MHz - 2475MHz.



4 Summary of Test Standards

Test Standards				
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES			
10-1-2020 Edition	Subpart C - Intentional Radiators			

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

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5 Summary of Test Results

Technical Requirements							
FCC Part 15 Subpart C 15.249							
Test Condition	Pages	Test	Τe	est Resu	lt		
		Site	Pass	Fail	N/A		
15.207	see				\boxtimes		
Conducted emission AC power port	note 1						
§15.205(a), §15.209(a), §15.249(a), §15.249(c) Field strength of emissions and Restricted bands	10	Site 1					
§15.249(d) Out of band emissions	15	Site 1					
FCC §15.215(c) 20dB bandwidth	20	Site 1	\square				
§15.203 Antenna requirement	See n	ote 2					

Note 1: The device is battery powered and can not be directly or indirectly connected to the AC mains, therefore the conducted emission measurement is not applicable.

Note 2: The EUT used a monopole antenna, which gain is 0dBi. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

All the models have same circuit, PCB layout and electric components, only the appearance, color and model named are different. Therefore, the EMC full tests were applied on model E359-003, other models are deemed to fulfill relevant EMC requirement without further testing.

This submittal(s) (test report) is intended for FCC ID: 2AAFASY-E359-003-05 complies with Section 15.205, 15.209, 15.249 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed
- The Equipment Under Test
- Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: April 18, 2022 Testing Start Date: May 07, 2022 Testing End Date: May 08, 2022

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



Myron Yu EMC Project Engineer Tested by:

Carry Cai **EMC** Test Engineer

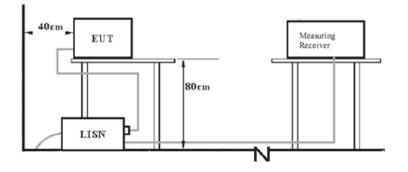
TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, 518052 China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299





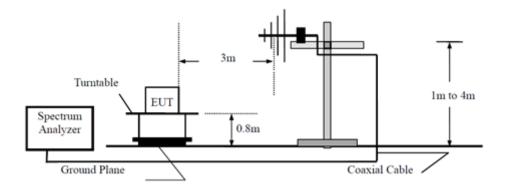
7 Test setups

- 7.1 AC Power Line Conducted Emission test setups
- AC Power Line Conducted Emission test setups

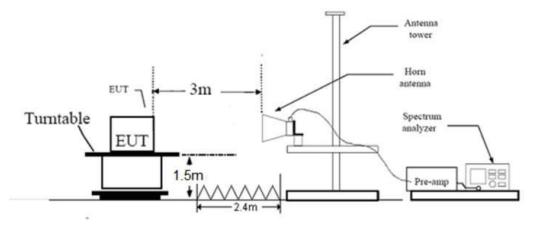


7.2 Radiated test setups

Below 1GHz



Above 1GHz



EMC_SZ_FR_23.00 FCC Release 2014-03-20 TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, 518052 China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299



8 Technical Requirement

8.1 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 an Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. An 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.

Test results Not applicable



Test Method

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-meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: 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.

4: 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.

5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥3RBW, Sweep = auto, Detector function = peak and average, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 120KHz, VBW≥3RBW, Sweep = auto, Detector function = QP, Trace = max hold.



Limits

According to §15.249 (a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

According to §15.249 (c), Field strength limits are specified at a distance of 3 meters.

According to §15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to §15.205 Unwanted emissions falling into restricted bands in §15.205 (a) shall comply with the limits specified in §15.209.

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBµV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



According to C63.10, 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.

EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2405MHz

For Peak Value

	Radiated Emission								
Value	Emissions Frequency MHz	E-Field Polarity	Reading Level dBµV/m	Correction Factor dB/m	PK Emission dBµV/m	Limit dBµV/m	Margin dBm	Emission Type	
PK	945.572222	Н	12.00	25.51	37.51	46.00	8.49	Spurious	
PK	392.672222	V	10.59	17.22	27.81	46.00	18.19	Spurious	
PK	2405.000000	Н	96.95	-6.27	90.68	114.00	23.32	Fundamental	
PK	2405.025000	V	92.39	-6.27	86.12	114.00	27.88	Fundamental	
PK	9620.000000	Н	47.55	12.91	60.46	74.00	13.54	Spurious	
PK	9620.000000	V	44.60	12.91	57.51	74.00	16.49	Spurious	

For AV Value

	Radiated Emission									
Value	Emissions Frequency MHz	E-Field Polarity	Reading Level dBµV/m	Correction Factor dB	PK Emission dBµV/m	Average Factor dB	AV Emission dBµV/m	Limit dBµV/m	Margin dBm	Emission Type
AV	2405.000000	Н	96.95	-6.27	90.68	-24.03	66.65	94.00	27.35	Fundamental
AV	2405.025000	V	92.39	-6.27	86.12	-24.03	62.09	94.00	31.91	Fundamental
AV	9620.000000	Н	47.55	12.91	60.46	-24.03	36.43	54.00	17.57	Spurious
AV	9620.000000	V	44.60	12.91	57.51	-24.03	33.48	54.00	20.52	Spurious
Peak to a	average duty cycl	e correction	factor =20lo	g (duty cycle)	, duty cycle=	=6.29%				

Remark:

1: Data of measurement within this frequency range shown "/" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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

3: PK Emission = Reading Level + Correction Factor

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

Correction Factor=Antenna Factor + Cable Loss (For Below 1GHz)

Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain (For Above 1GHz)



EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2440MHz

For Peak Value

	Radiated Emission								
Value	Emissions Frequency MHz	E-Field Polarity	Reading Level dBµV/m	Correction Factor dB/m	PK Emission dBµV/m	Limit dBµV/m	Margin dBm	Emission Type	
PK	2440.210000	Н	99.66	-6.05	93.61	114.00	20.39	Fundamental	
PK	2440.210000	V	94.67	-6.05	88.62	114.00	25.38	Fundamental	
PK	9760.000000	Н	45.47	13.14	58.61	74.00	15.39	Spurious	
PK	9760.000000	V	46.01	13.14	59.15	74.00	14.85	Spurious	

For AV Value

				Radi	ated Emiss	sion				
Value	Emissions Frequency MHz	E-Field Polarity	Reading Level dBµV/m	Correction Factor dB	PK Emission dBµV/m	Average Factor dB	AV Emission dBµV/m	Limit dBµV/m	Margin dBm	Emission Type
AV	2440.210000	Н	99.66	-6.05	93.61	-24.03	69.58	94.00	24.42	Fundamental
AV	2440.210000	V	94.67	-6.05	88.62	-24.03	64.59	94.00	29.41	Fundamental
AV	9760.000000	Н	45.47	13.14	58.61	-24.03	34.58	54.00	19.42	Spurious
AV	9760.000000	V	46.01	13.14	59.15	-24.03	35.12	54.00	18.88	Spurious
Peak to a	average duty cycl	e correction	factor =20lc	g (duty cycle)	, duty cycle=	=6.29%				

Remark:

1: Data of measurement within this frequency range shown "/" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. 2: "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

3: PK Emission = Reading Level + Correction Factor

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

Correction Factor=Antenna Factor + Cable Loss (For Below 1GHz)

Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain (For Above 1GHz)



EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2475MHz

For Peak Value

	Radiated Emission											
Value	Emissions Frequency MHz	E-Field Polarity	Reading Level dBµV/m	Correction Factor dB/m	PK Emission dBµV/m	Limit dBµV/m	Margin dBm	Emission Type				
PK	2475.200000	Н	98.61	-5.71	92.90	114.00	21.10	Fundamental				
PK	2475.125000	V	93.07	-5.71	87.36	114.00	26.64	Fundamental				
PK	7425.000000*	Н	41.08	9.18	50.26	74.00	23.74	Spurious				
PK	14972.500000	V	31.51	18.83	50.34	74.00	23.66	Spurious				

For AV Value

				Radi	ated Emiss	sion				
Value	Emissions Frequency MHz	E-Field Polarity	Reading Level dBµV/m	Correction Factor dB	PK Emission dBµV/m	Average Factor dB	AV Emission dBµV/m	Limit dBµV/m	Margin dBm	Emission Type
AV	2475.200000	Н	98.61	-5.71	92.90	-24.03	68.87	94.00	25.13	Fundamental
AV	2475.125000	V	93.07	-5.71	87.36	-24.03	63.33	94.00	30.67	Fundamental
AV	/	Н	/	/	/	/	/	54.00	/	Spurious
AV	/	V	/	/	/	/	/	54.00	/	Spurious
Peak to a	average duty cycl	e correction	factor =20lc	g (duty cycle)	, duty cycle=	=6.29%				

Remark:

1: Data of measurement within this frequency range shown "/" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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

3: PK Emission = Reading Level + Correction Factor

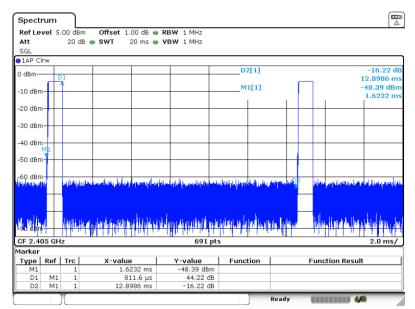
4: AV Emission Level= PK Emission +20log(duty cycle)

Correction Factor=Antenna Factor + Cable Loss (For Below 1GHz)

Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain (For Above 1GHz)

(The Reading Level is recorded by software which is not shown in the sheet)

Duty Cycle=0.81 ms/12.90 ms=6.29 %



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Test Method

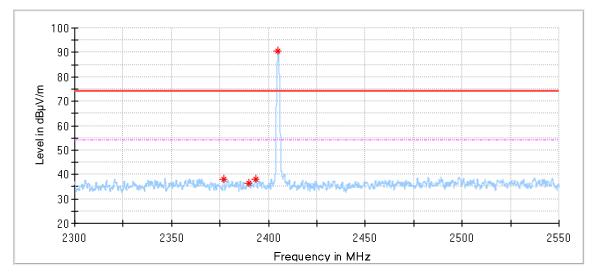
- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limits

According to §15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.



EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2405MHz Polarization: Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2376.800000	38.17	74.00	35.83	150.0	Н	235.0	-6.33
2390.000000	36.43	74.00	37.57	150.0	Н	8.0	-6.33
2393.450000	37.90	74.00	36.10	150.0	Н	62.0	-6.33
2405.000000	90.68	74.00	-16.68	150.0	Н	351.0	-6.27

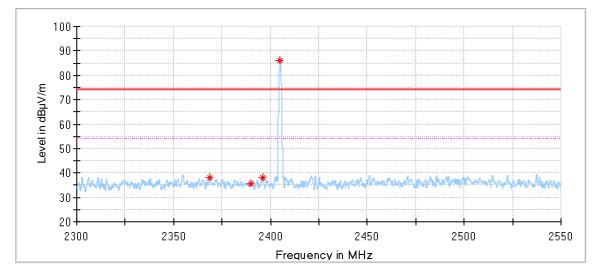
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss - Pre-amplifier



EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2405MHz Polarization: Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2368.500000	37.93	74.00	36.07	150.0	V	49.0	-6.27
2390.000000	35.50	74.00	38.50	150.0	V	0.0	-6.33
2396.050000	38.24	74.00	35.76	150.0	V	0.0	-6.33
2405.025000	86.12	74.00	-12.12	150.0	V	7.0	-6.27

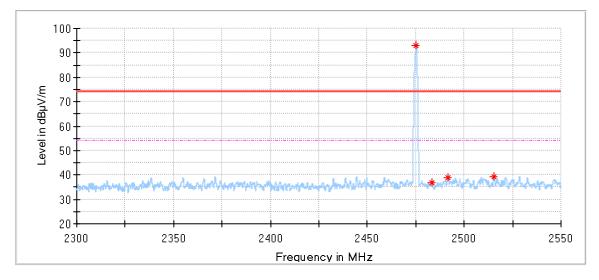
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier



EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2475MHz Polarization: Horizontal



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2475.200000	92.90	74.00	-18.90	150.0	Н	0.0	-5.71
2483.500000	36.95	74.00	37.05	150.0	Н	53.0	-5.67
2491.625000	39.03	74.00	34.97	150.0	Н	104.0	-5.63
2515.200000	39.27	74.00	34.73	150.0	Н	152.0	-5.46

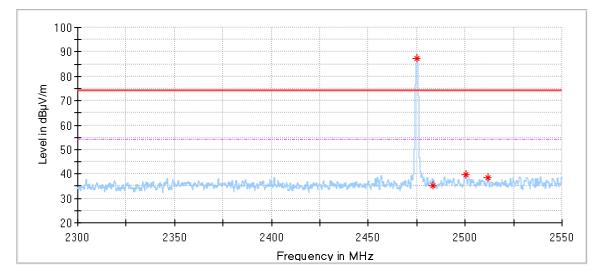
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss - Pre-amplifier



EUT: Remote controller M/N: E359-003 Operating Condition: Tx 2475MHz Polarization: Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2475.125000	87.36	74.00	-13.36	150.0	V	4.0	-5.71
2483.500000	35.31	74.00	38.69	150.0	V	90.0	-5.67
2500.200000	39.69	74.00	34.31	150.0	V	323.0	-5.58
2511.775000	38.35	74.00	35.65	150.0	V	298.0	-5.49

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss - Pre-amplifier



8.4 20dB Bandwidth

Test Method

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to spectrum analyser. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

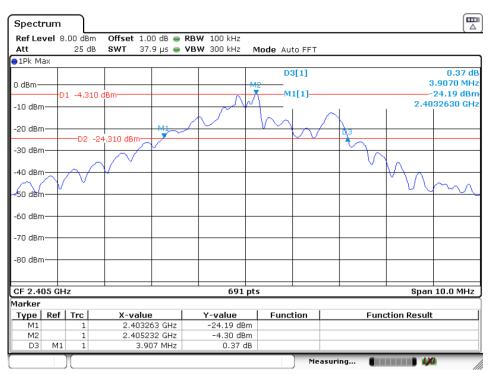
Limits:

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



20dB Bandwidth

Frequency	20dB Bandwidth	Limit	
MHz	MHz	MHz	
2405	3.907		



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2405MHz



20dB Bandwidth

Frequency	20dB Bandwidth	Limit
MHz	MHz	MHz
2440	3.690	

Spect	rum										
Ref Le Att	vel 8	.00 dBr 25 d		i0 dB 👄 F .9 µs 👄 V			Mode	Auto FFT			
😑 1Pk Vi	e₩										
0 dBm—		1 -2 50	90 dBm				M2	D3[1] M1[1]			-0.55 dB 3.6900 MHz -24.04 dBm
-10 dBr		1 -0.0.			_	$\neg \land$	$\mathbb{A}_{\mathcal{A}}$	·····	\sim I		83650 GHz
-20 dBm	n	D2	-23.590 dBm	- MZ	∄	J	V				
-30 dBn			$\pm M$	\vee					$- [\mathcal{N}]$	h	
-40 dBm -50 dBm	\mathcal{M}	\checkmark									nn.
-60 dBrr	n				+			_			
-70 dBn	n				+						
-80 dBr	n										
CF 2.4	4 GHz	2		1		691	pts			Spar	10.0 MHz
Marker											
Туре	Ref	Trc	X-value			'-value		nction	Fun	nction Result	:
M1 M2		1	2.4383			-24.04 dB -3.59 dB					
D3	M1	1		46 GHZ 59 MHZ		-3.59 dB -0.55 d					
)[) Me	asuring 🔳		0

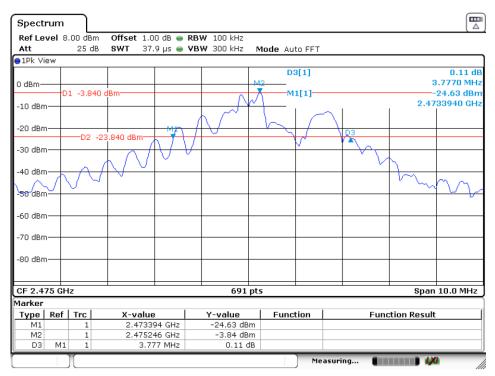
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2440MHz



20dB Bandwidth

Frequency	20dB Bandwidth	Limit
MHz	MHz	MHz
2475	3.777	



Date: 8.MAY.2022 18:31:47

2475MHz



9 Test equipment lists

Radiated Emission 2# Test Site

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2022-6-4
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2023-1-17
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2022-5-24
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2022-10-10
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2022-10-10
Sideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	68-4-80-14-008	12827	1	2022-7-21
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2022-7-27
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2022-8-23
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006		2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006- A01	Version10.35.02	N/A	N/A

RF Conducted Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2022-6-3



10 System Measurement Uncertainty

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

System Measurement Uncertainty					
Test Items	Extended Uncertainty				
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006)	Horizontal: 4.67dB;				
30MHz-1000MHz	Vertical: 4.65dB				
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006)	Horizontal: 4.76dB;				
1000MHz-18000MHz	Vertical: 4.75dB				
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006)	Horizontal: 3.12dB;				
18GHz-40GHz	Vertical: 3.10dB				
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.27dB				
	Frequency test involved:				
	0.6×10 ⁻⁷ or 1%				

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.