

FCC TEST REPORT FCC ID:2AH4J-PANEL342

Report Number	: ZKT-220112L0255E-1
Date of Test	Mar. 09, 2022 to Mar. 22, 2022
Date of issue	: Mar. 23, 2022
Total number of pages	24
Test Result	: PASS
Testing Laboratory	: Shenzhen ZKT Technology Co., Ltd.
Address	[:] 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name	: Consumer 2.0
Address	: 6300 Wilshire Blvd Suite 620, Los Angeles, CA 90048, United States
Manufacturer's name	: Consumer 2.0
Address	: 6300 Wilshire Blvd Suite 620, Los Angeles, CA 90048, United States
Test specification:	
Standard	: FCC CFR Title 47 Part 15 Subpart C Section 15.225 ANSI C63.10:2013
Test procedure	
Non-standard test method	: N/A
Test Report Form No	: TRF-EL-112_V0
Test Report Form(s) Originator.	: ZKT Testing
Master TRF	: Dated: 2020-01-06
test (EUT) is in compliance with the identified in the report.	been tested by ZKT, and the test results show that the equipment under ne FCC requirements. And it is applicable only to the tested sample and except in full, without the written approval of ZKT, this document may
	sonal only, and shall be noted in the revision of the document.
Product name	: Rently Access Panel 3
Trademark	: N/A
Model/Type reference	····· V3.4.2
Ratings	· Input: 12\/3A

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China









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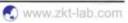
1.VERSION

	Report No.	Version	Description	Approved
	ZKT-220112L0255E-1	Rev.01	Initial issue of report	Mar. 23, 2022
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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.225) , Subpart C							
Standard Section	Lest Item						
FCC part 15.203	Antenna requirement	PASS					
FCC part 15.207	FCC part 15.207 AC Power Line Conducted Emission						
FCC part 15.225(a)(b)(c)(d)	Fundamental &Radiated Spurious Emission Measurement	PASS					
FCC part 15.215	Channel Bandwidth	PASS					
FCC part 15.225(e)	Frequency Tolerance	PASS	5				

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report





2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd. Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225 Designation Number: CN1299 IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % \circ

No.	Item	Uncertainty	
1	Conducted Emission Test	±1.38dB	- 6
2	RF power conducted	±0.16dB	
3	Spurious emissions conducted	±0.21dB	
4	All emissions radiated(<1G)	±4.68dB	
5	All emissions radiated(>1G)	±4.89dB	
6	Temperature	±0.5°C	
7	Humidity	±2%	











3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT



Product Name:	Rently Access Panel 3	
Model No.:	V3.4.2	
Model Different .:	N/A	
Hardware Version:	H1.0	
Software Version:	S1.0	
Sample(s) Status:	Engineer sample	
Operation Frequency:	13.56MHz	
Channel Numbers:	1	
Channel Separation:	N/A	
Modulation Type:	ASK	
Antenna Type:	Loop Antenna	
Antenna gain:	0dBi	
Power supply:	Input: 12V===3A	
SWITCHING POWER	N/A	
ADAPTER:		









3.2 DESCRIPTION OF TEST MODES

_	ansmitting mode		EUT in continuously tran	.	
			g the test, the test voltag ound that the worst case		
			hat condition's data.		ated supply
.3 BLOC	SK DIGRAM SHC	WING THE CON	IFIGURATION OF SYST	EMTESTED	
Radiate	d Emission				
EUT					
onducte	ed Spurious				
EUT	SI S/				
.4 DES	CRIPTION OF SU	JPPORT UNITS(CONDUCTED MODE)		
	IT has been tes	ted as an indene	endent unit together with	other necessary acces	ssories or suppor
The Fl					
units.		pport units or ac	cessories were used to	form a representative	
units.	the following su the tests.	pport units or ac	cessories were used to	form a representative	
units. during	the tests.	100			test configuration
units. during	the tests.	Mfr/Brand	Model/Type No.	Series No.	test configuration
units. during	the tests.	100			test configuration
units. during	the tests. Equipment Rently Access	Mfr/Brand	Model/Type No.	Series No.	test configuration
units. during	the tests. Equipment Rently Access	Mfr/Brand	Model/Type No.	Series No.	test configuration



Item	Shielded Type	Ferrite Core	Length	Note
		242		S

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.

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3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 22, 2021	Sep. 21, 2022
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 22, 2021	Sep. 21, 2022
3	Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Sep. 22, 2021	Sep. 21, 2022
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 22, 2021	Sep. 21, 2022
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 22, 2021	Sep. 21, 2022
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 22, 2021	Sep. 21, 2022
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 22, 2021	Sep. 21, 2022
8	Amplifier (1GHz-40GHz)	QuanJuDa	DLE-161	097	Sep. 22, 2021	Sep. 21, 2022
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 22, 2021	Sep. 21, 2022
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 22, 2021	Sep. 21, 2022
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 22, 2021	Sep. 21, 2022
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 22, 2021	Sep. 21, 2022
13	CMW500 Test	R&S	CMW500	106504	Sep. 22, 2021	Sep. 21, 2022
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 22, 2021	Sep. 21, 2022
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 22, 2021	Sep. 21, 2022
16	D.C. Power Supply	LongWei	TPR-6405D	١	١	\sim \sim
17	Software	Frad	EZ-EMC	FA-03A2 RE	١	
18	Power Meter	MWRFtest	MW100-RFCB	١	Sep. 22, 2021	Sep. 21, 2022

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Sep. 22, 2021	Sep. 21, 2022
2	LISN	CYBERTEK	EM5040A	E185040014 9	Sep. 22, 2021	Sep. 21, 2022
3	Test Cable	N/A	C01	N/A	Sep. 22, 2021	Sep. 21, 2022
4	Test Cable	N/A	C02	N/A	Sep. 22, 2021	Sep. 21, 2022
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 22, 2021	Sep. 21, 2022
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 22, 2021	Sep. 21, 2022

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

	Test Requirement:	FCC Part15 C Section 15.207
-	Test Method:	ANSI C63.10:2013
4	Test Frequency Range:	150KHz to 30MHz
	Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (Standard	
	Quas-peak	Average	Stanuaru
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

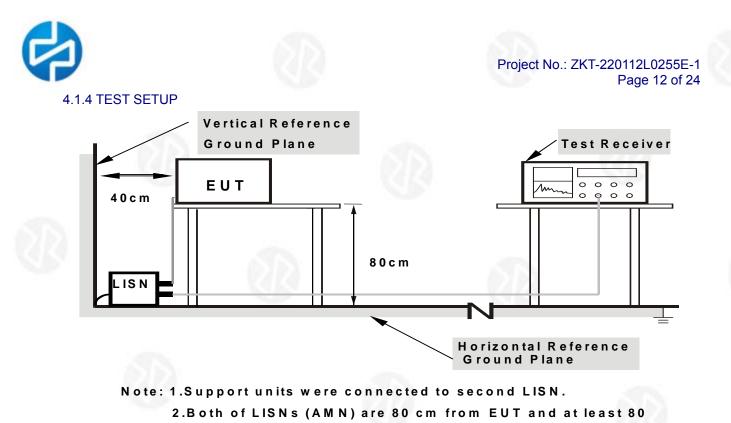
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD No deviation







from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 TEST RESULTS

The EUT is powered by the DC only, the test item is not applicable.



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Sect	ion 15.209			20		
Test Method:	ANSI C63.10:2013	DD					
Test Frequency Range:	9kHz to 1GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak		
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak		
		Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10Hz	Average		
	Note: According to kHz and above 10 bands are based or	00 MHz. Radi	ated emiss	sion limits	in these three		

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

Field Strength of Fundamental Limit:

a. The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. 15,848 microvolts/meter at 3 meters=124 dBuV/m. b. Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. 334 microvolts/meter at 3 meters=90.47 dBuV/m.

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

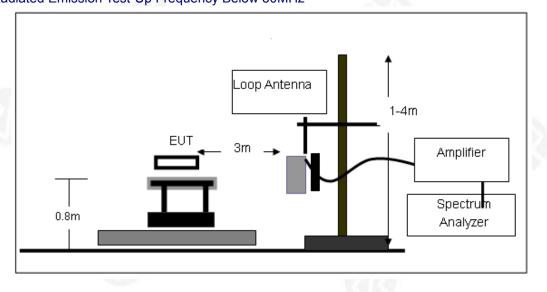
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

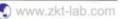
4.2.3 DEVIATION FROM TEST STANDARD



No deviation

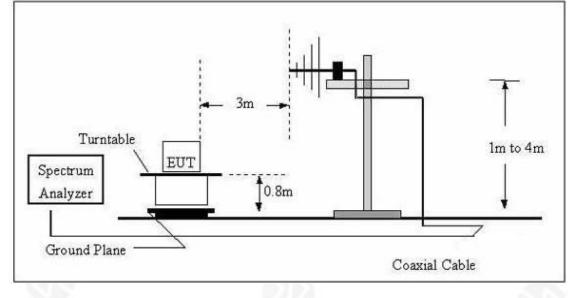
4.2.4 TEST SETUP (A) Radiated Emission Test-Up Frequency Below 30MHz



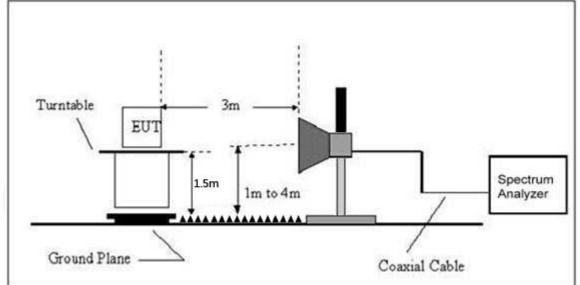


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(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





4.2.6 TEST RESULTS

Field Strength of Fundamental

_								021
	Frequen	Readi	Correctio	Resu	Limit	Mar	Pol	Detect
	су	ng	n	lt	(dBuV/	gin	ar	or
	(MHz)	(dBuV/	Factor(dB/	(dBuV/	m)	(d	(H/	
		m)	m)	m)		B)	V)	
	13.46	53.70	15.82	69.52	90.47	-20.95	Н	QP
	13.46	56.02	15.82	71.84	90.47	-18.63	V	QP
	13.553	58.57	15.61	74.18	90.47	-16.29	Н	QP
	13.553	57.08	15.61	72.69	90.47	-17.78	V	QP
	13.56	90.06	12.33	102.39	124	-21.61	Н	Peak
	13.56	92.24	12.33	104.57	124	-19.43	V	Peak
	13.567	60.18	12.33	72.51	90.47	-17.96	Н	QP
	13.567	56.82	12.33	69.15	90.47	-21.32	V	QP
	13.65	53.06	15.82	68.88	90.47	-21.59	Н	QP
	13.65	51.76	15.82	67.58	90.47	-22.89	V	QP
			100 B					







Between 9KHz - 30 MHz

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80 Limit dBuV/m @3m = Limit dBuV/m @30m + 40 9 kHz~30 MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
41.38	54.93	15.15	70.08	115.27	-45.19	AVG
105.53	51.60	15.2	66.80	107.14	-40.34	AVG
289.17	55.27	16.33	71.60	98.38	-26.78	AVG
1360.25	33.09	16.87	49.96	64.93	-14.97	QP
2605.61	28.20	17.62	45.82	69.54	-23.72	QP
4017.36	25.50	18.32	43.82	69.54	-25.72	QP
6690.05	20.58	18.64	39.22	69.54	-30.32	QP
8253.65	17.08	19.26	36.34	69.54	-33.20	QP
12632.99	17.45	19.32	36.77	69.54	-32.77	QP

Note:

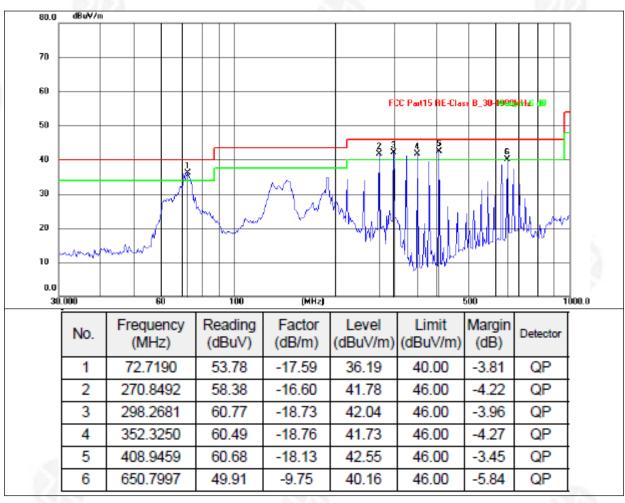
Pre-scan in the all of mode, the worst case in of was recorded. Factor = antenna factor + cable loss – pre-amplifier. Margin = Emission Level- Limit.





Between 30MHz - 1GHz

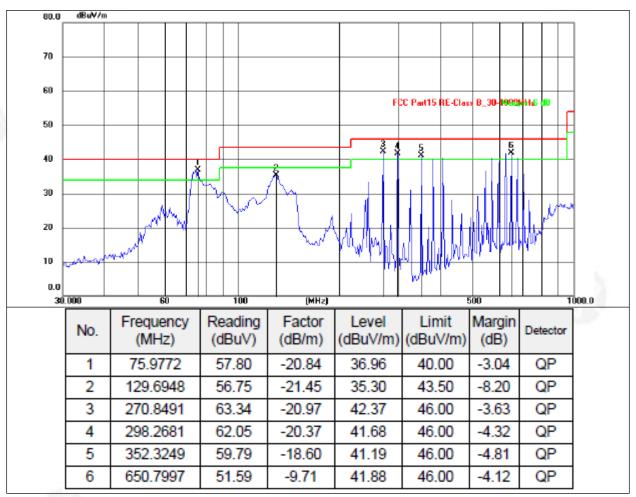
Horizontal





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Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.









5. FREQUENCY TOLERANCE

Test Requirement:	FCC Part15 C Section 15.225(e)
Test Method:	ANSI C63.10:2013

5.1 LIMIT

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment,

the equipment tests shall be performed using a new battery.

Limit: ±0.01% of 13.56MHz=±1356Hz

5.2 TEST PROCEDURE

- 1. Set RBW = 10 kHz.
- 2. Set the video bandwidth (VBW) ≥RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. The transmitter output (antenna port) was connected to the spectrum analyzer.

5.3 DEVIATION FROM TEST STANDARD No deviation





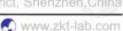
5.5 TEST RESULT

	Test Conditions		Frequency	y Deviation		
Frequency MHz	Power(Vdc)	Temperature (°C)	Measured Freq. (MHz)	Deviation (%)	Limit	
	Normal	-20	13.5603	0.0022		
	Normal	-10	13.5603	0.0022]	
	Normal	0	13.5602	0.0015		
246.9	Normal	10	13.5602	0.0015		
13.56	Normal	20	13.5602	0.0015	+0.01%	
13.30	Normal	30	30 13.5601 0.000		$\pm 0.01\%$	
	Normal	40	13.5601	0.0007		
	Normal	50	13.5602	0.0015		
	Normal*85%	20	13.5602	0.0015]	
	Normal *115%	20	13.5603	0.0022]	



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6. CHANNEL BANDWIDTH

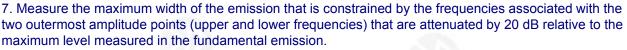
Test Requirement:	FCC Part15 C Section 15.215
Test Method:	ANSI C63.10: 2013

6.1 APPLIED PROCEDURES / LIMIT

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 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be deomonstrated by measuring the radiated emissions.

6.2 TEST PROCEDURE

- 1. Set RBW = 3 kHz.
- 2. Set the video bandwidth (VBW) ≥RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.



6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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Result

Pass

6.6 TEST RESULT

Test channel

1

Temperature :	24.6℃	Relative Humidity :	53%
Test Mode :	ASK	Test Voltage :	DC 12V

20dB Channel Bandwidth

(KHz)

14.90

Ø

		CH 01			
Keysight Spectrum Analyzer - Occupied BW Keysight Spectrum Analyzer - Occupied BW Conter Freq 13.5600000 MH	Trig: I	SENSE:INT r Freq: 13.560000 MHz Free Run Avg H h: 10 dB	Raiold:>10/10	05:53:39 PM Mar 11, 2022 adio Std: None adio Device: BTS	Trace/Detector
10 dB/div Ref -30.00 dBm Log					
-40.0					Clear Write
-60.0 -70.0 -80.0					Average
-90.0					_
-120					Max Hold
Center 13.56 MHz #Res BW 3 kHz		VBW 10 kHz		Span 20 kHz weep 2.733 ms	Min Hold
Occupied Bandwidth	8.851 kHz	Total Power	-54.5 dl	Bm L	Detector
Transmit Freq Error x dB Bandwidth	-917 Hz 14.90 kHz	% of OBW Po x dB	ower 99.00 -20.00		Average▶ <u>to</u> Man
	14.50 KHZ			4 0 -	
MSG			STATUS		
	_	ALC 4			



7.ANTENNA REQUIREMENT



Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antennas is Loop Antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details









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Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

******** END OF REPORT *******

