



TEST REPORT

Applicant: Daoxian Future star Precision Technology co.,Ltd

Address of Applicant: Future Star Factory Building, Future Star Incubation Park, Daoxian Industrial Park, Yongzhou City, Hunan Province China

Manufacturer: Daoxian Future star Precision Technology co.,Ltd

Address of Manufacturer: Future Star Factory Building, Future Star Incubation Park, Daoxian Industrial Park, Yongzhou City, Hunan Province China

Product Name: 32-mobile TV

Model No.: TX-32-1, TX10.1-1, TX15.6-1, TX18.5-1, TX21.5-1, TX22-1, TX23.8-1, TX24-1, TX24.5-1, TX25-1, TX27-1, TX32-1, TX43-1, TX49-1, TX50-1, TX55-1, TX58-1, TX60-1, TX65-1, TX70-1, TX75-1, TX80-1, TX84-1, TX85-1, TX86-1, TX90-1, TX98-1, TX-100-1, TX105-1, TX110-1, TX115-1, TX120-1, TX130-1, TX135-1, TX150-1, TX165-1, TX185-1

Trade Mark: N/A

FCC ID: 2BVYT-TX321

Applicable standards: CFR Title 47 Part 15.247

Date of Test: May.06, 2025-Jun.02, 2026

Date of report issued: Jun.03, 2026

Remark:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

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Report Revision History		
Report No.	Description	Issue Date
ET-26051772E02	Original	Jun.03, 2026



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1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	47CFR part 15.203/15.247 (b)(4)	Pass	/
AC Power Line Conducted Emission	47CFR part 15.207	Pass	Jason Huang
Conducted Peak Output Power	47CFR part 15.247 (b)(3)	Pass	Oliver Wang
6dB Bandwidth	47CFR part 15.247 (a)(2)	Pass	Oliver Wang
Power Spectral Density	47CFR part 15.247 (e)	Pass	Oliver Wang
Band Edge	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Oliver Wang
Spurious Emission	47CFR part 15.247(d) 47CFR part 15.205/15.209	Pass	Jason Huang

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10-2020+Cor.1-2023 and KDB558074 D01 15.247 Meas Guidance v05r02.
3. Note: Compliance determination rules
 - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacture. If measurement uncertainty is taken into account, the applicant/manufacture will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.72%	(1)
RF output power, conducted	±0.67 dB	(1)
Power Spectral Density, conducted	±0.51 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 3.38 dB	(1)
Radiated emissions 9K-30MHz	±4.26 dB	(1)
Radiated emissions 30M- 1GHz	±4.88 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.16 dB	(1)
Radiated emissions 18GHz-40GHz	±4.14 dB	(1)
Frequency error	Uc=6X10 ⁻⁷	(1)
Duty Cycle	0.03	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2. General Information

2.1 General Description of EUT

Product Name:	32-mobile TV
Model No.:	TX-32-1, TX10.1-1, TX15.6-1, TX18.5-1, TX21.5-1, TX22-1, TX23.8-1, TX24-1, TX24.5-1, TX25-1, TX27-1, TX32-1, TX43-1, TX49-1, TX50-1, TX55-1, TX58-1, TX60-1, TX65-1, TX70-1, TX75-1, TX80-1, TX84-1, TX85-1, TX86-1, TX90-1, TX98-1, TX-100-1, TX105-1, TX110-1, TX115-1, TX120-1, TX130-1, TX135-1, TX150-1, TX165-1, TX185-1
Difference of model(s)	All models have the same electrical circuit, including the same software parameters and hardware design (i.e. circuit design, PCB layout, RF module/circuit, antenna type and location, components on PCB, etc.), the same mechanical structure and design (including product casing, materials, etc.), except for the model name and color
Test Model:	TX-32-1
Hardware version:	GM99-D4U-V2.0-20250621
Software version:	N/A
Power supply:	AC 120V 60Hz
Adapter information:	Model: J652-1205000UX INPUT: AC 100-240V 50/60Hz 1.7A Output: DC 12.0V 5A
Battery:	DC 14.8V 10000mAh
Radio Technology:	BT(LE)
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Antenna Type:	Rob antenna
Antenna gain:	4.46dBi (Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.)
Note: 1. Other information please Reference user manual. 2. Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.	



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
Lowest channel	2402MHz
Middle channel	2440MHz
Highest channel	2480MHz



2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: For battery operated equipment, the EUT was performed using a new DC 14.8V battery.</i>	

2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	LAPTOP	HUAWEI	MDF-16	/
2	MOUSE	DELL	MS116	/
3	KEYBOARD	DELL	KB216T	/

2.4 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440
IC CAB identifier:	CN0132
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

2.5 Additional Instructions

Test Software	Engineering mode
Power level setup	Default



3. Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101214	2026.3.05	2027.3.04
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2026.3.05	2027.3.04
3	Loop Antenna	schwarabeck	FMZB 1519 B	128	2026.3.08	2028.3.07
4	Broadband antenna	schwarabeck	VULB9168	1064	2026.3.11	2028.3.10
5	Horn antenna	schwarabeck	BBHA9120D	2288	2026.3.08	2028.3.07
6	amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
7	AMN	schwarabeck	NSLK8127	8127483	2026.3.05	2027.3.04
8	AMN	ETS	3186/2NM	1132	2026.3.05	2027.3.04
9	10dB attenuator	HUBER+SUHN R	10dB	/	2026.3.05	2027.3.04
10	amplifier	Space-Dtronics	EWLAN0118G- P40	19113001	2026.3.05	2027.3.04
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2026.3.05	2027.3.04
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
13	Power control box	MWRFTtest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
14	Power Sensor	Keysight	U2021XA	MY54111006	2026.3.05	2027.3.04
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	19113001	2026.3.05	2027.3.04
16	Horn antenna	schwarabeck	BBHA 9170	946	2026.3.08	2028.3.07
17	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2026/3/06	2027/3/05

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
RF test software	MWRFTtest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

4. Test results and Measurement Data

4.1 Antenna requirement

Standard requirement:	47CFR Part 15.203 /247(b)(4)
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.	
15.247(b) (4) requirement: If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power limit shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is Rob antenna, the best case gain of the antenna is 4.46 dBi, reference to the ET-26051772IP for details.	

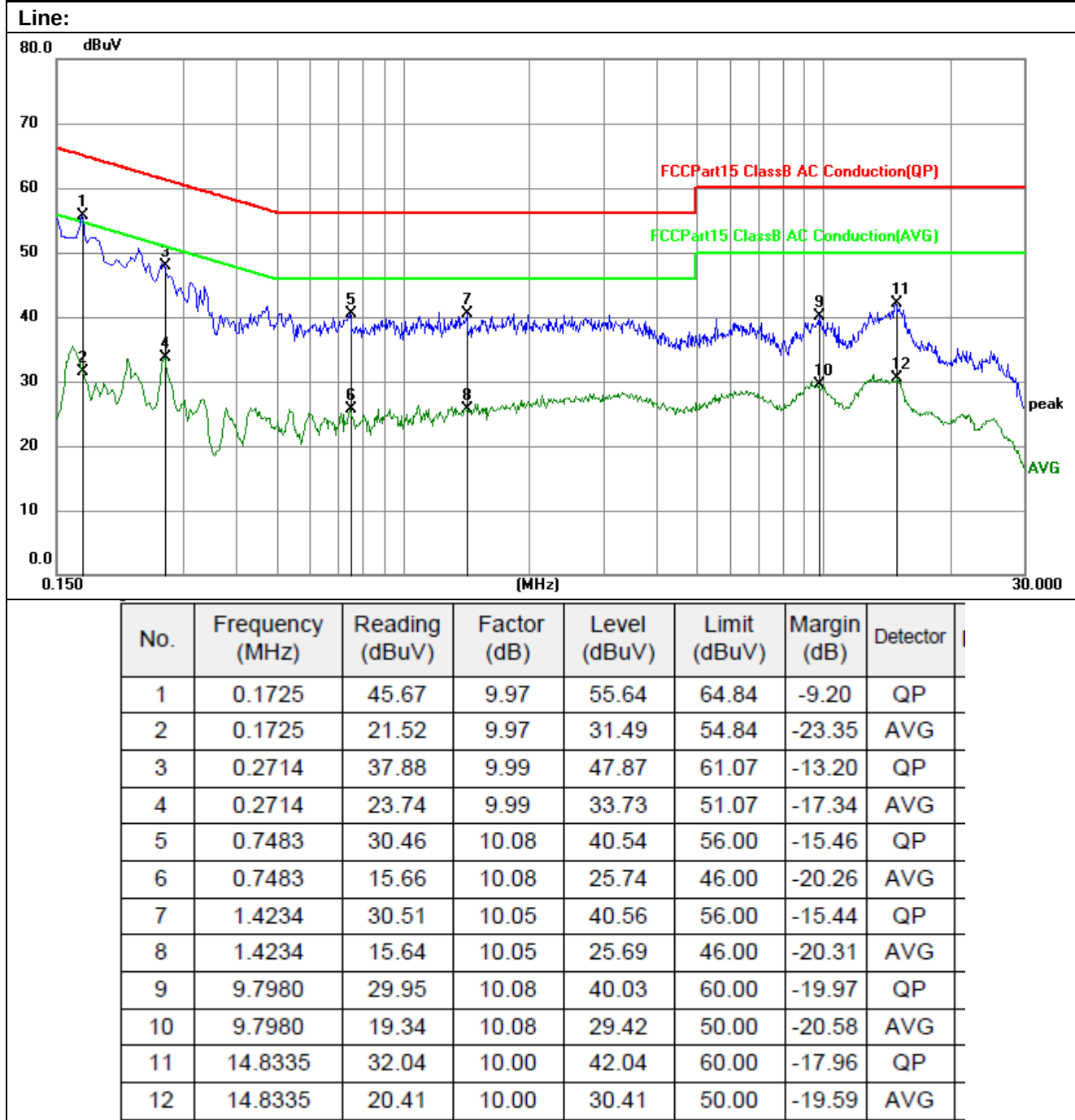
4.2 Conducted Emissions

Test Requirement:	47CFR part 15.207						
Test Method:	ANSI C63.10-2020+Cor.1-2023 § 6.2						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)		Limit (dBuV)				
			Quasi-peak		Average		
	0.15-0.5		66 to 56*		56 to 46*		
	0.5-5		56		46		
	5-30		60		50		
* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane 40cm LISN AUX Equipment E.U.T 80cm LISN Filter AC power EMI Receiver 12mm insulating mat Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network						
Test procedure:	1. EUT is placed on a plane 12mm above the ground through an insulated bracket, E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020+Cor.1-2023 on conducted measurement.						
Test Instruments:	Refer to section 3.0 for details						
Test mode:	Refer to section 2.2 for details						
Test environment:	Temp.:	25.9°C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V 60Hz						
Test results:	Pass						

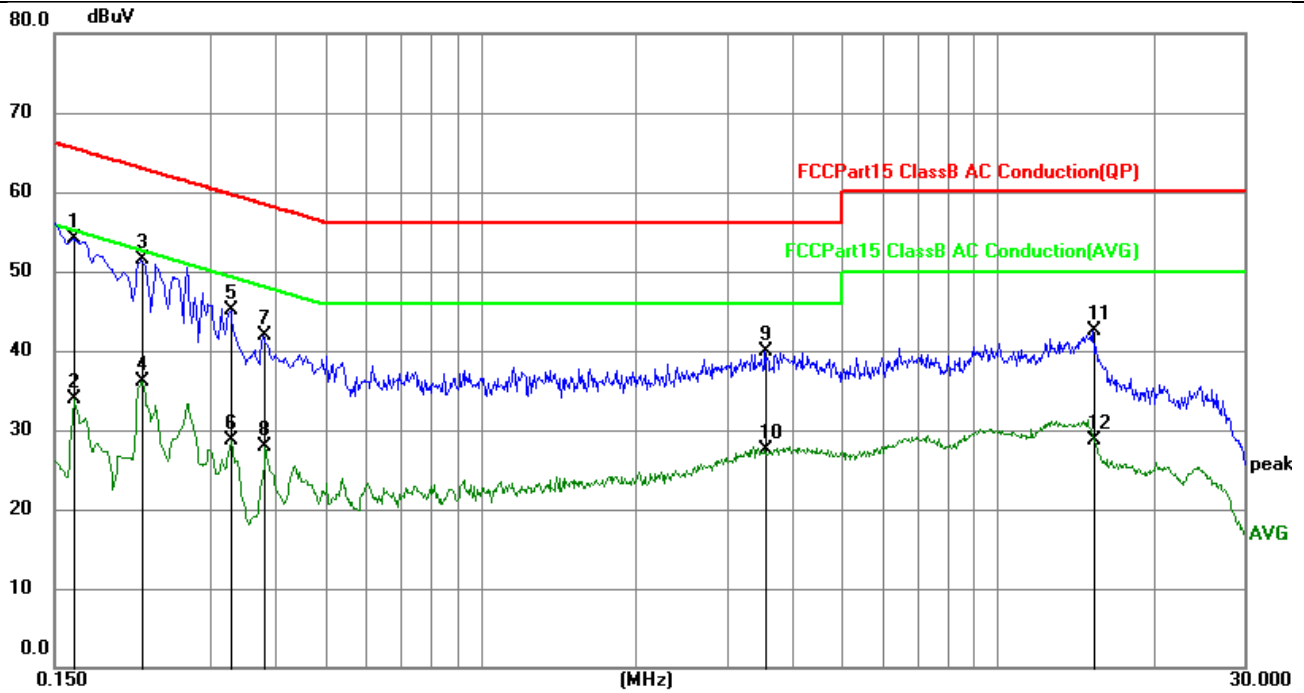
Remark:

1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
2. All mode have been tested, the report only shows the worst mode (2440MHz) data.

Measurement data



Neutral:

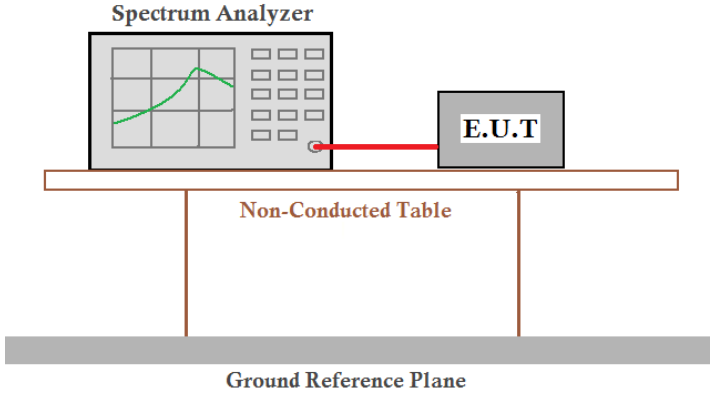


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1635	44.15	9.97	54.12	65.28	-11.16	QP
2	0.1635	24.01	9.97	33.98	55.28	-21.30	AVG
3	0.2220	41.46	9.98	51.44	62.74	-11.30	QP
4	0.2220	26.19	9.98	36.17	52.74	-16.57	AVG
5	0.3300	35.16	10.02	45.18	59.45	-14.27	QP
6	0.3300	18.74	10.02	28.76	49.45	-20.69	AVG
7	0.3795	31.81	10.04	41.85	58.29	-16.44	QP
8	0.3795	17.82	10.04	27.86	48.29	-20.43	AVG
9	3.5475	29.81	10.02	39.83	56.00	-16.17	QP
10	3.5475	17.51	10.02	27.53	46.00	-18.47	AVG
11	15.3285	32.58	9.99	42.57	60.00	-17.43	QP
12	15.3285	18.71	9.99	28.70	50.00	-21.30	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Level = Receiver Read level + Factor (Factor = LISN Factor + Cable Loss + Attenuator Factor)
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

4.3 Duty cycle

Test Method :	ANSI C63.10-2020+Cor.1-2023 § 11.6	
Limit:	/	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 25.9°C	Humid.: 52%RH
Test voltage:	DC 14.8V	
Test results:	Pass	

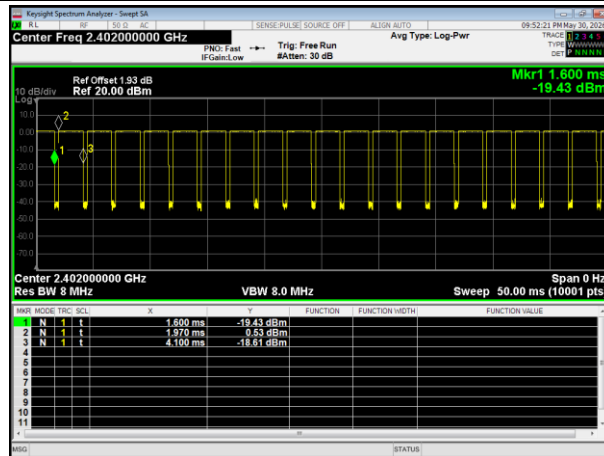
Measurement Result

Test channel	Duty Cycle (%)	Correction Factor (dB)
Lowest	85.2	0.70
Middle	85.2	0.70
Highest	85.2	0.70

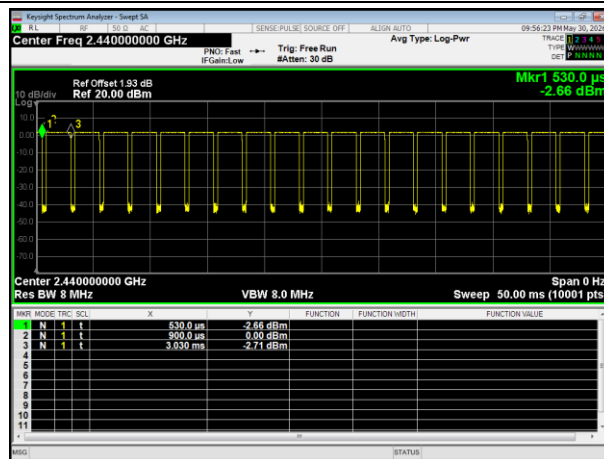
Note: Duty cycle factor (dB) = $10 * \log (1/ \text{Duty cycle})$



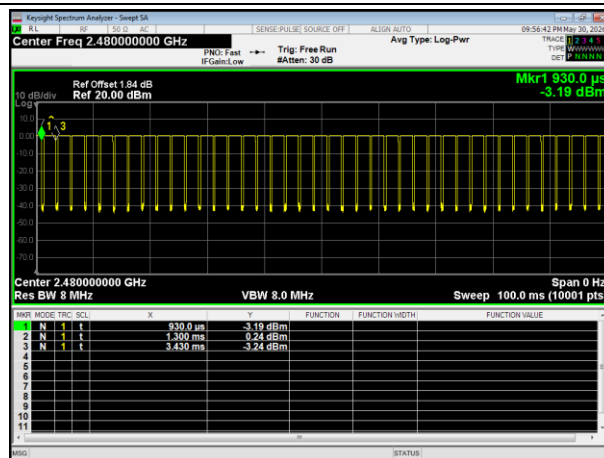
Test plot as follows:



Lowest channel

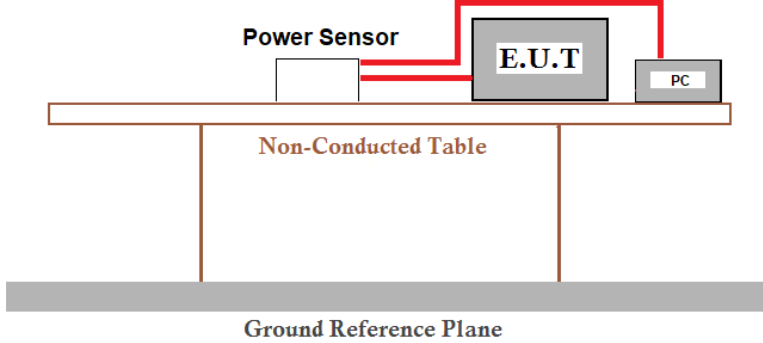


Middle channel



Highest channel

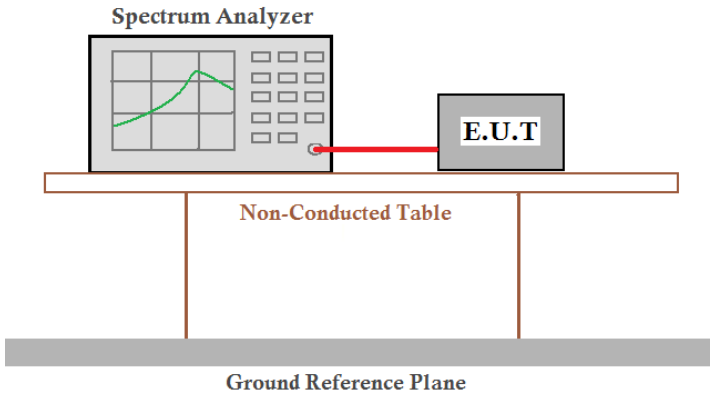
4.4 Conducted Output Power

Test Requirement :	47CFR Part 15.247 (b)(3)	
Test Method :	ANSI C63.10-2020+Cor.1-2023 § 11.9.1.2 KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	30dBm for conducted	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 25.9°C	Humid.: 52%RH
Test voltage:	DC 14.8V	
Test results:	Pass	

Measurement Result

Test channel	Output Power (dBm)	Limit(dBm)	Result
Lowest	0.85	30.00	Pass
Middle	1.56		
Highest	0.25		

4.5 6dB Bandwidth

Test Requirement :	47CFR part 15.247 (a)(2)	
Test Method :	ANSI C63.10-2020+Cor.1-2023 § 11.8.2	
Limit:	>500KHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 25.9°C	Humid.: 52%RH
Test voltage:	DC 14.8V	
Test results:	Pass	

Measurement Result

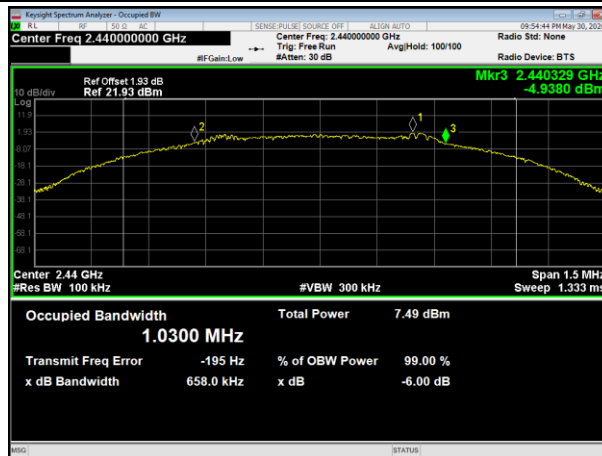
Test channel	6dB Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.668	>500	Pass
Middle	0.658		
Highest	0.665		



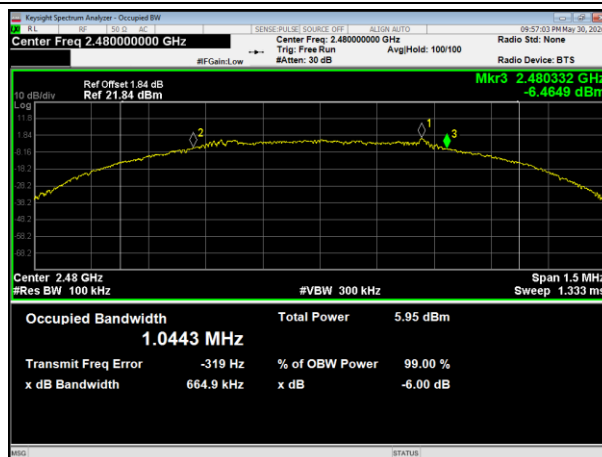
Test plot as follows:



Lowest channel

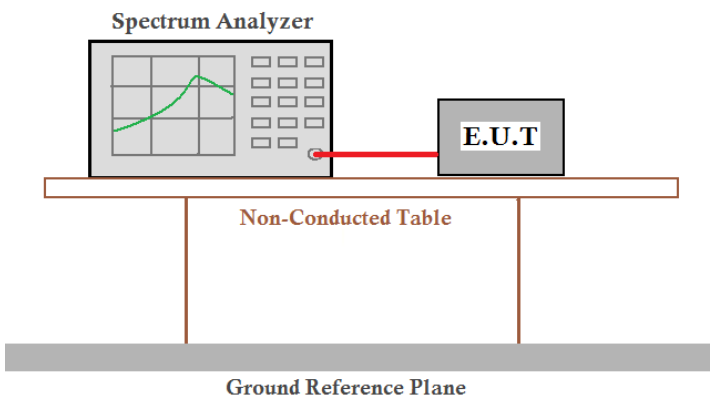


Middle channel



Highest channel

4.6 Power Spectral Density

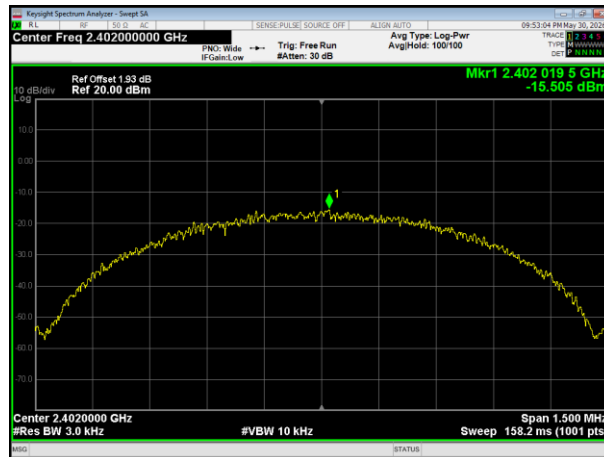
Test Requirement:	47CFR Part 15.247 (e)	
Test Method:	ANSI C63.10-2020+Cor.1-2023 § 11.10.2 KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	8dBm/3kHz	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 25.9°C	Humid.: 52%RH
Test voltage:	DC 14.8V	
Test results:	Pass	

Measurement Result

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	-15.505	8.00	Pass
Middle	-14.536		
Highest	-15.807		



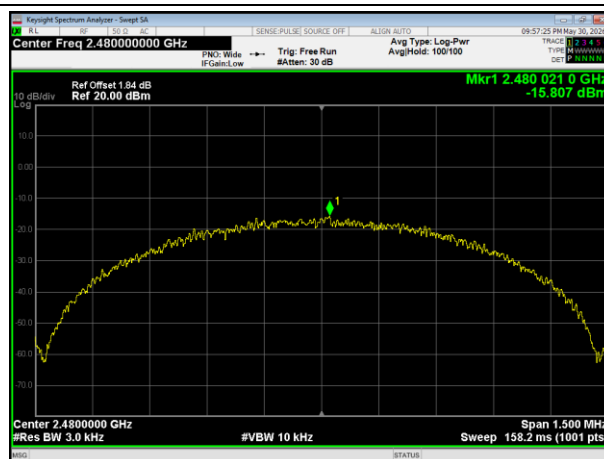
Test plot as follows:



Lowest channel



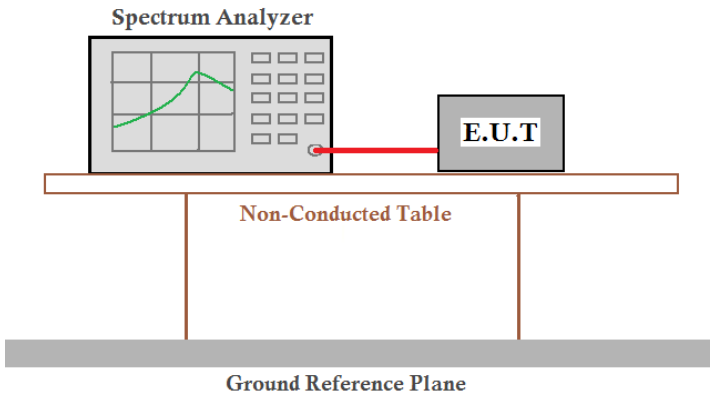
Middle channel

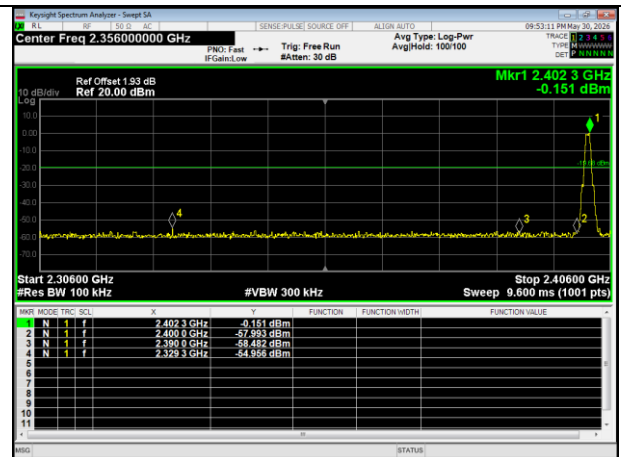
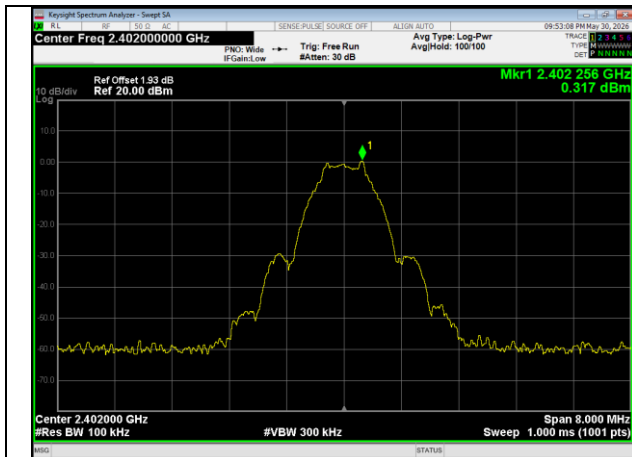


Highest channel

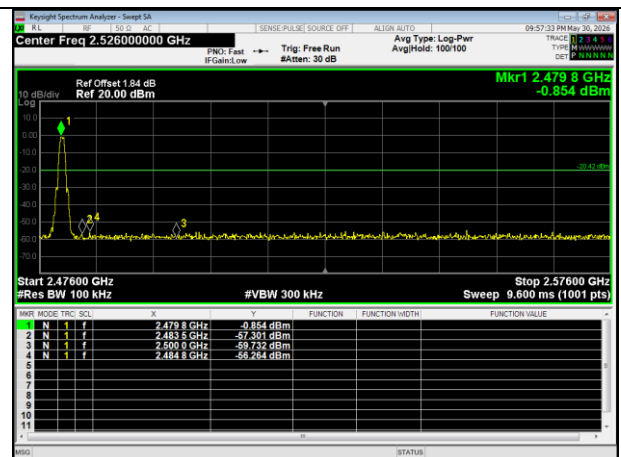
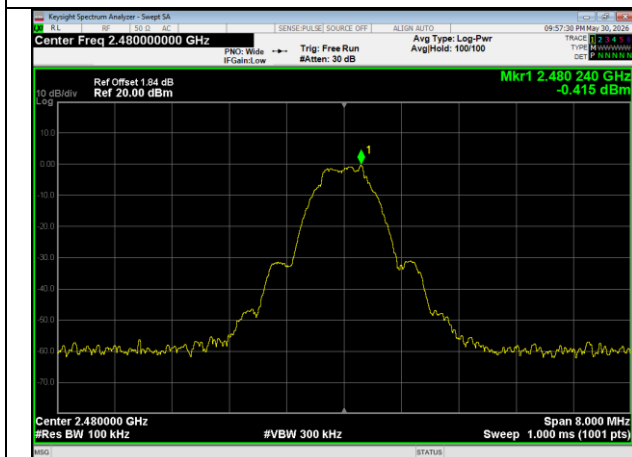
4.7 Band edges

Conducted Emission Method

Test Requirement:	47CFR Part 15.247 (d)	
Test Method:	ANSI C63.10-2020+Cor.1-2023 § 6.10.2	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:	 The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T (Equipment Under Test). Both are placed on a Non-Conducted Table, which sits on a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 25.9°C	Humid.: 52%RH
Test voltage:	DC 14.8V	
Test results:	Pass	

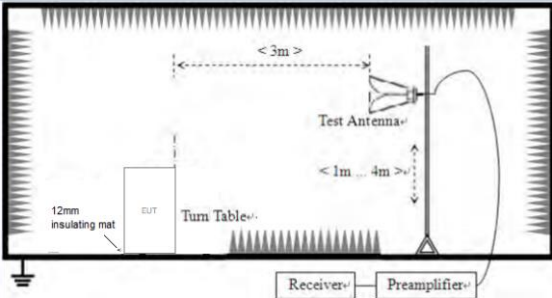


Lowest channel



Highest channel

Radiated Emission Method

Test Requirement:	47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+Cor.1-2023 § 6.10.4&11.12.1				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	1. The device under test (EUT) is placed on a 12mm insulation pad above the ground rotating table, which is at a curvature position of 3 meters. Rotate the rotary table 360 degrees to determine the position with the highest radiation intensity. For the Above 1GHz test, the EUT transmitting antenna is located at 1.5m. 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 antenna height 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test environment:	Temp.: 200.6°C		Humid.: 60%RH		
Test voltage:	DC 14.8V				
Test results:	Pass				



Measurement Result:

Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Polarization
2310.00	67.23	-13.36	53.87	74.00	-20.13	Horizontal
2390.00	73.43	-13.03	60.40	74.00	-13.60	Horizontal
2310.00	67.94	-13.36	54.58	74.00	-19.42	Vertical
2390.00	72.80	-13.03	59.77	74.00	-14.23	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	55.21	-13.36	41.85	54.00	-12.15	Horizontal
2390.00	60.56	-13.03	47.53	54.00	-6.47	Horizontal
2310.00	55.64	-13.36	42.28	54.00	-11.72	Vertical
2390.00	61.06	-13.03	48.03	54.00	-5.97	Vertical

Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	73.41	-12.64	60.77	74.00	-13.23	Horizontal
2500.00	68.28	-12.57	55.71	74.00	-18.29	Horizontal
2483.50	73.58	-12.64	60.94	74.00	-13.06	Vertical
2500.00	67.90	-12.57	55.33	74.00	-18.67	Vertical

Average value:

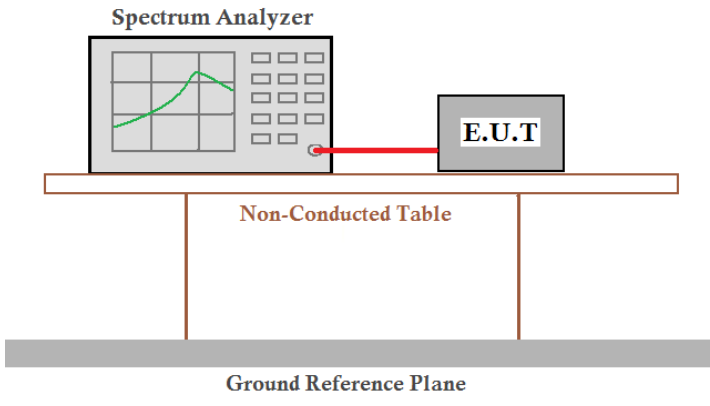
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	60.64	-12.64	48.00	54.00	-6.00	Horizontal
2500.00	56.02	-12.57	43.45	54.00	-10.55	Horizontal
2483.50	62.02	-12.64	49.38	54.00	-4.62	Vertical
2500.00	54.84	-12.57	42.27	54.00	-11.73	Vertical

Remarks:

1. Level = Read level + Factor
2. Factor=Antenna Factor + Cable Loss – Preamplifier Factor
3. Emissions more than 20 dB below the limit do not need to be reported.
4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

4.8 Spurious Emission

Conducted Emission Method

Test Requirement:	47CFR Part 15.247(d), 47CFR Part 15.209 and 15.205	
Test Method:	ANSI C63.10-2020+Cor.1-2023 § 11.12.2	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 25.9°C	Humid.: 52%RH
Test voltage:	DC 14.8V	
Test results:	Pass	

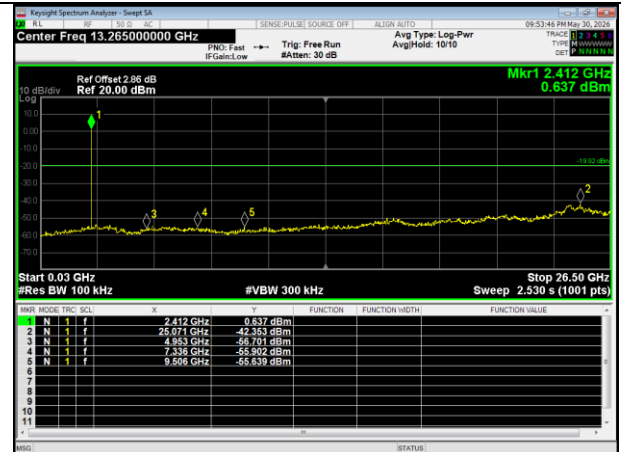
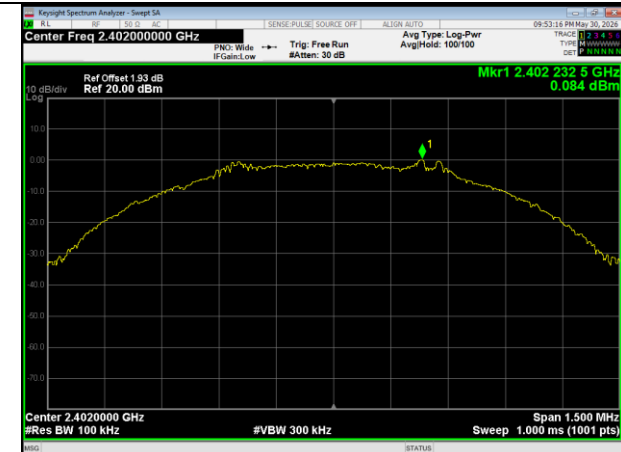
Remark:

1. Cable loss data included in Offset.



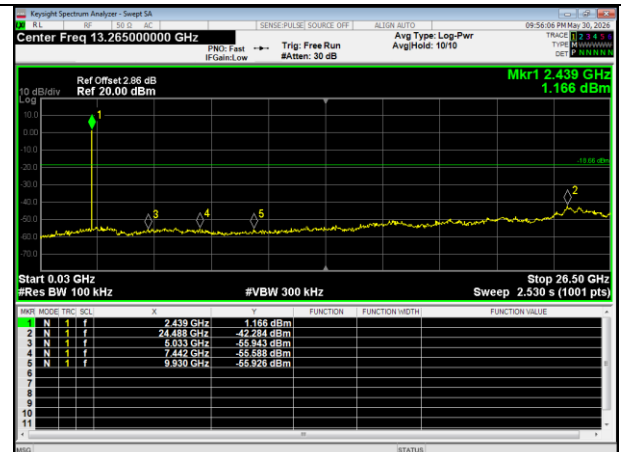
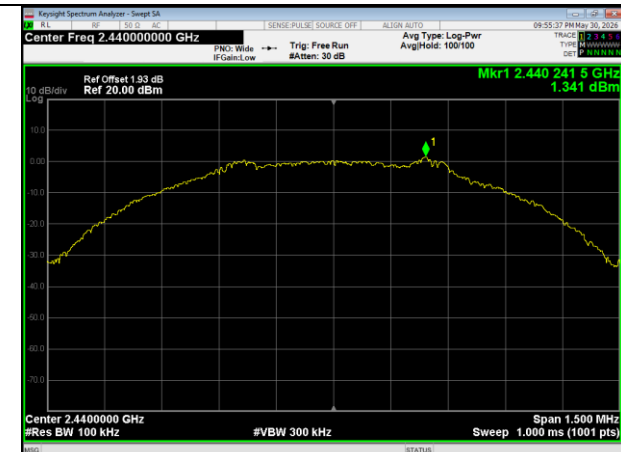
Test plot as follows:

Lowest channel



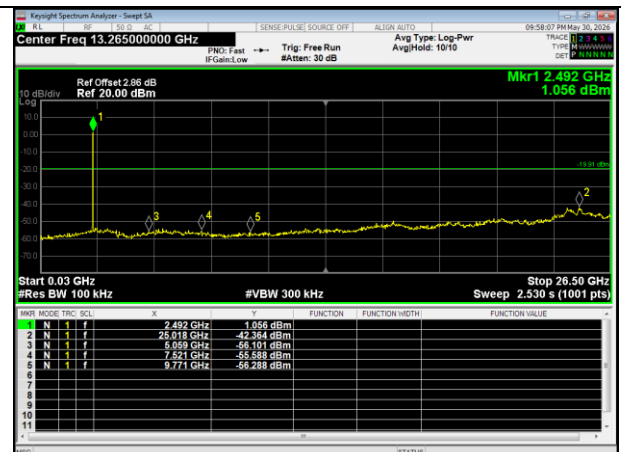
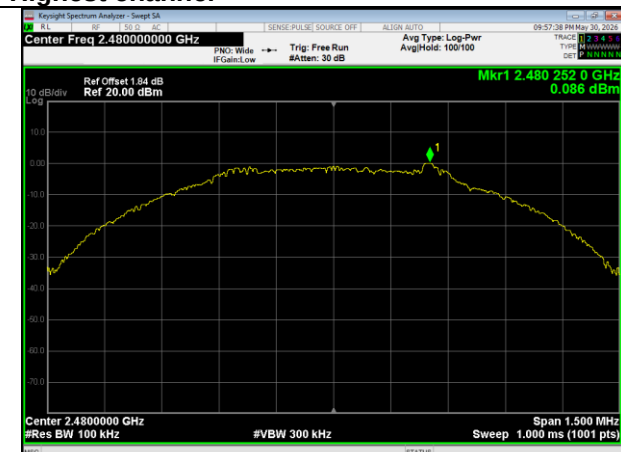
30MHz~25GHz

Middle channel



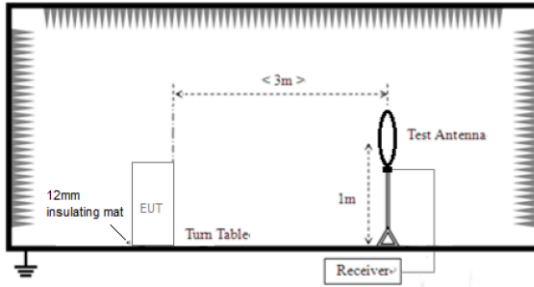
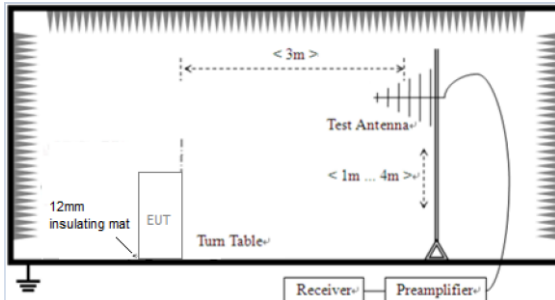
30MHz~25GHz

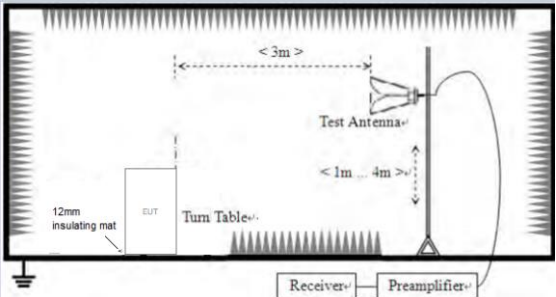
Highest channel



30MHz~25GHz

Radiated Emission Method

Test Requirement:	47CFR part 15.247(d),47CFR Part 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+Cor.1-2023 § 6.4&6.5&6.6				
Test Frequency Range:	9kHz to 25GHz				
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	120KHz	360KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to1GHz				
					
	For radiated emissions above 1GHz				

	
Test Procedure:	1. Place the EUT on a 12mm insulation pad at the top of the rotating table above the ground. Rotate the table 360 degrees to determine the position of the highest radiation. For the Above 1GHz test, the EUT transmitting antenna is located at 1.5m 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 antenna height 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Remarks:

1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
3. All models and modes have been tested, and the report only displays the worst mode (2440MHz) data.

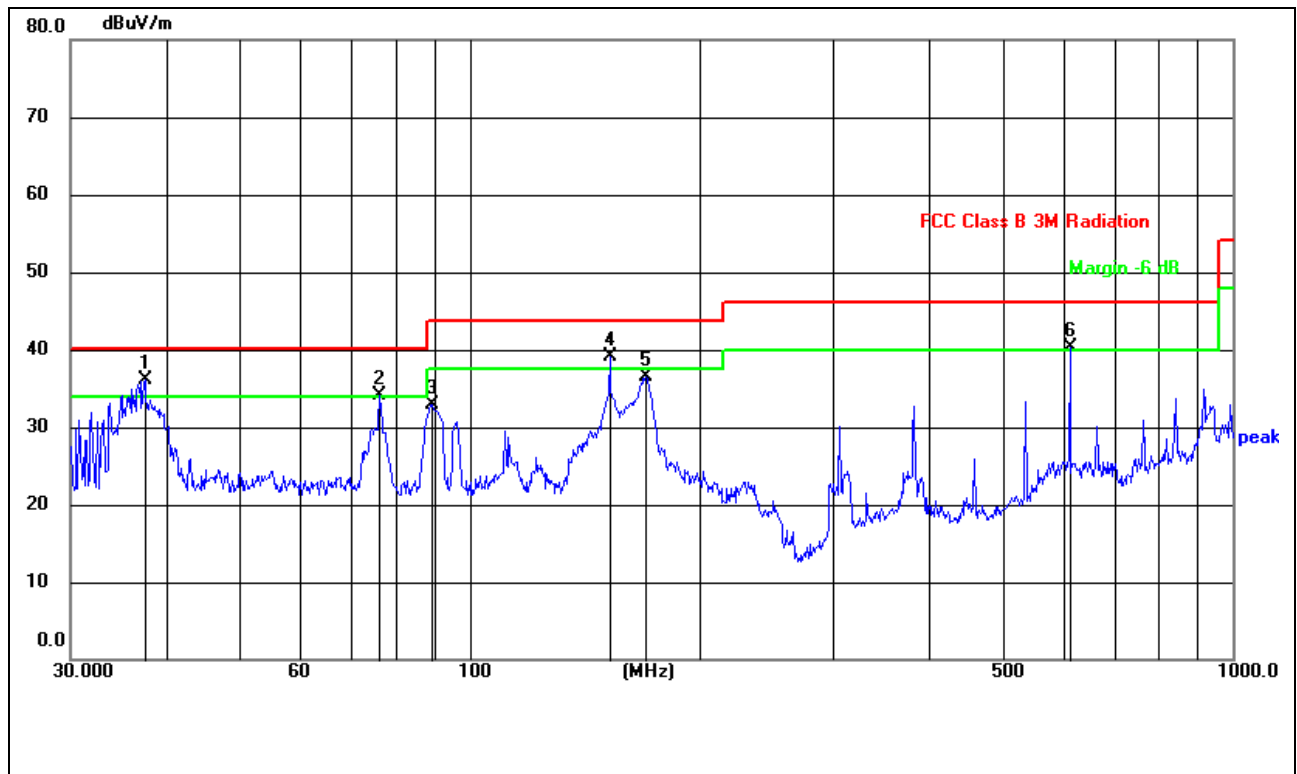
Measurement Result:

■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 47CFR part 15.31(o), the test result no need to reported.

■ Below 1GHz

Test polarization:	Vertical	Test voltage:	DC 14.8V
Temp.:	20.6°C	Humid.:	60%RH

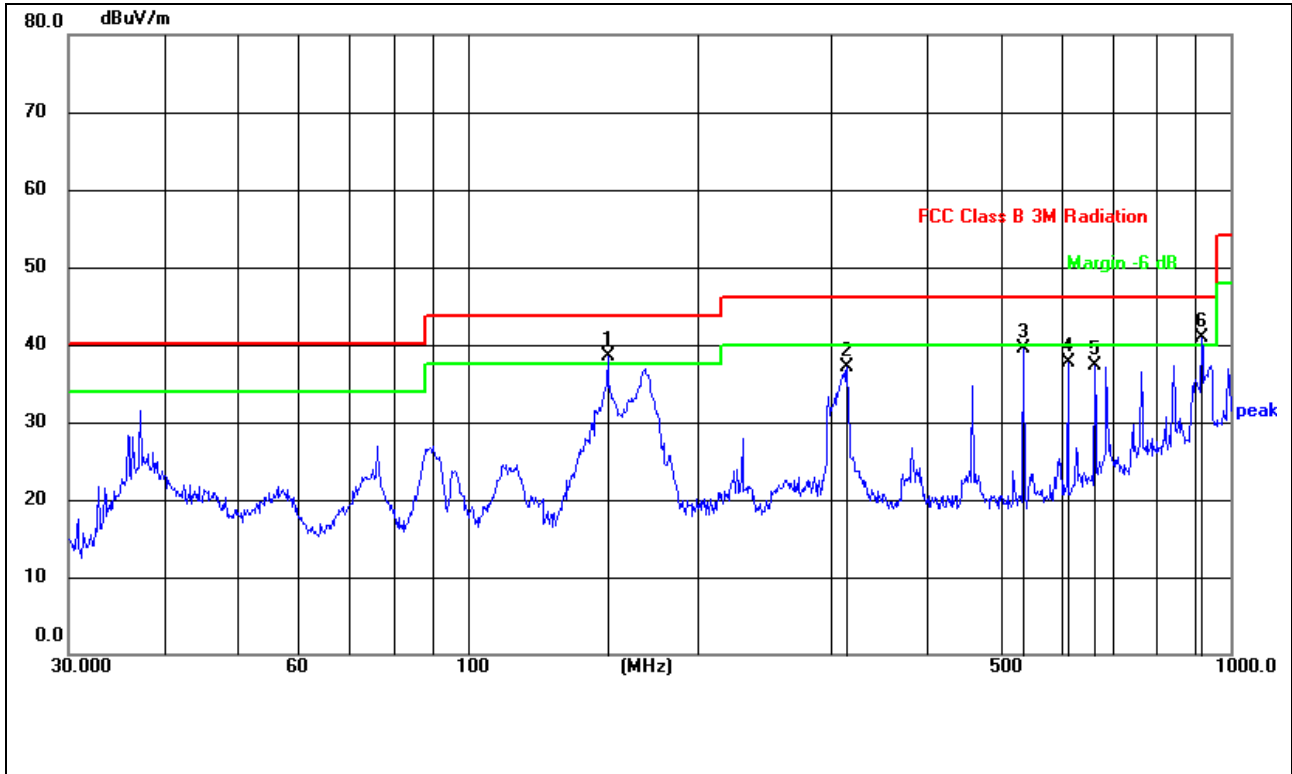


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.5478	57.45	-21.32	36.13	40.00	-3.87	QP
2	76.2442	59.49	-25.36	34.13	40.00	-5.87	QP
3	89.2762	58.38	-25.45	32.93	43.50	-10.57	QP
4	152.6640	59.71	-20.52	39.19	43.50	-4.31	QP
5	170.1947	57.39	-20.98	36.41	43.50	-7.09	QP
6	612.0641	51.52	-11.24	40.28	46.00	-5.72	QP

Factor= Antenna Factor + Cable Loss – Preamplifier Factor

Level = Reading + Factor, Margin=level-Limit

Test polarization:	Horizontal	Test voltage:	DC 14.8V
Temp.:	20.6°C	Humid.:	60%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	152.6640	59.07	-20.52	38.55	43.50	-4.95	QP
2	314.3763	56.80	-19.70	37.10	46.00	-8.90	QP
3	535.7073	52.69	-13.22	39.47	46.00	-6.53	QP
4	612.0641	49.01	-11.24	37.77	46.00	-8.23	QP
5	663.4728	47.52	-10.16	37.36	46.00	-8.64	QP
6	916.0685	45.83	-4.92	40.91	46.00	-5.09	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor – Preamplifier Factor



■ 1GHz-25GHz

Temp.:	20.6°C	Humid.:	60%RH
Test voltage:	DC 14.8V		
Test channel:		Lowest	

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	57.04	-7.69	49.35	74.00	-24.65	Vertical
7206.00	52.89	-1.70	51.19	74.00	-22.81	Vertical
9608.00	50.13	1.31	51.44	74.00	-22.56	Vertical
12010.00	*	--	--	74.00	--	Vertical
14412.00	*	--	--	74.00	--	Vertical
4804.00	57.90	-7.69	50.21	74.00	-23.79	Horizontal
7206.00	53.26	-1.70	51.56	74.00	-22.44	Horizontal
9608.00	50.81	1.31	52.12	74.00	-21.88	Horizontal
12010.00	*	--	--	74.00	--	Horizontal
14412.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	45.47	-7.69	37.78	54.00	-16.22	Vertical
7206.00	42.05	-1.70	40.35	54.00	-13.65	Vertical
9608.00	38.68	1.31	39.99	54.00	-14.01	Vertical
12010.00	*	--	--	54.00	--	Vertical
14412.00	*	--	--	54.00	--	Vertical
4804.00	46.26	-7.69	38.57	54.00	-15.43	Horizontal
7206.00	42.17	-1.70	40.47	54.00	-13.53	Horizontal
9608.00	39.09	1.31	40.40	54.00	-13.60	Horizontal
12010.00	*	--	--	54.00	--	Horizontal
14412.00	*	--	--	54.00	--	Horizontal

Remarks:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	57.24	-7.56	49.68	74.00	-24.32	Vertical
7320.00	51.86	-1.38	50.48	74.00	-23.52	Vertical
9760.00	50.49	1.19	51.68	74.00	-22.32	Vertical
12200.00	*	--	--	74.00	--	Vertical
14640.00	*	--	--	74.00	--	Vertical
4880.00	56.34	-7.56	48.78	74.00	-25.22	Horizontal
7320.00	51.57	-1.38	50.19	74.00	-23.81	Horizontal
9760.00	48.66	1.19	49.85	74.00	-24.15	Horizontal
12200.00	*	--	--	74.00	--	Horizontal
14640.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	45.14	-7.56	37.58	54.00	-16.42	Vertical
7320.00	41.20	-1.38	39.82	54.00	-14.18	Vertical
9760.00	39.17	1.19	40.36	54.00	-13.64	Vertical
12200.00	*	--	--	54.00	--	Vertical
14640.00	*	--	--	54.00	--	Vertical
4880.00	46.06	-7.56	38.50	54.00	-15.50	Horizontal
7320.00	41.99	-1.38	40.61	54.00	-13.39	Horizontal
9760.00	38.80	1.19	39.99	54.00	-14.01	Horizontal
12200.00	*	--	--	54.00	--	Horizontal
14640.00	*	--	--	54.00	--	Horizontal

Remarks:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“*”, means this data is too weak instrument of signal is unable to test.*
3. *Emissions more than 20 dB below the limit do not need to be reported.*

Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	56.70	-7.43	49.27	74.00	-24.73	Vertical
7440.00	52.37	-1.02	51.35	74.00	-22.65	Vertical
9920.00	49.28	1.08	50.36	74.00	-23.64	Vertical
12400.00	*	--	--	74.00	--	Vertical
14880.00	*	--	--	74.00	--	Vertical
4960.00	57.62	-7.43	50.19	74.00	-23.81	Horizontal
7440.00	51.52	-1.02	50.50	74.00	-23.50	Horizontal
9920.00	50.57	1.08	51.65	74.00	-22.35	Horizontal
12400.00	*	--	--	74.00	--	Horizontal
14880.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	45.77	-7.43	38.34	54.00	-15.66	Vertical
7440.00	41.41	-1.02	40.39	54.00	-13.61	Vertical
9920.00	38.94	1.08	40.02	54.00	-13.99	Vertical
12400.00	*	--	--	54.00	--	Vertical
14880.00	*	--	--	54.00	--	Vertical
4960.00	46.08	-7.43	38.65	54.00	-15.35	Horizontal
7440.00	41.98	-1.02	40.96	54.00	-13.04	Horizontal
9920.00	39.35	1.08	40.43	54.00	-13.57	Horizontal
12400.00	*	--	--	54.00	--	Horizontal
14880.00	*	--	--	54.00	--	Horizontal

Remarks:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.



5. Test Setup Photo

Reference to the file No.: ET-26051772SP for details.

6. EUT Constructional Details

Reference to the file No.: ET-26051772EP and ET-26051772IP for details.

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