

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202408-0094-11

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RF Test Report

FCC ID:2AKL3-GD2

Report No.	1	TBR-C-202408-0094-11		
Applicant	40	Shenzhen Junuo Electronics Co., Ltd.		
Equipment Under Te	est (El	JT)		
EUT Name		TV BOX		
Model No.	11,55	GD2		
Series Model No.	: (N/A		
Brand Name	37):	Dcolor		
Sample ID	*	HC-C-202408-0094-01-01&HC-C-202408-0094-02-01		
Receipt Date	3	2024-08-16		
Test Date		024-08-16 to 2024-09-13		
Issue Date	(1)	024-09-13		
Standards		CC Part 15 Subpart C 15.247		
Test Method		NSI C63.10: 2013 DB 558074 D01 15.247 Meas Guidance v05r02		
Conclusions		PASS		
	199	In the configuration tested, the EUT complied with the standards specified above.		
Test By		: Mike Yan		
Reviewed By		: Mike Yan Henry huang Henry huang Henry huang		
Approved By		: WAN SU TRIVEN ST		

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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Total Marie		





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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202408-0094-11	Rev.01	Initial issue of report	2024-09-13
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1. General Information about EUT

1.1 Client Information

W 1 1 2 4 4 W			
Applicant		Shenzhen Junuo Electronics Co., Ltd.	
Address	•	Factory Building 401, No. 36, Hezhou Road, Hezhou Community, Hangcheng Street, Baoan District, Shenzhen City China.	
Manufacturer		nenzhen Junuo Electronics Co., Ltd.	
Address		Factory Building 401, No. 36, Hezhou Road, Hezhou Community, Hangcheng Street, Baoan District, Shenzhen City China.	

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	TV BOX			
Models No.):	GD2			
Model Different		N/A			
TU	A.	Operation Frequency:	Bluetooth(BR+EDR): 2402MHz~2480MHz		
4000		Number of Channel:	79 channels		
Product Description		Antenna Gain:	-0.03dBi PCB Antenna		
		Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8DPSK(3Mbps)		
Power Rating		•	dapter:(SA12BV-120100U) nput: 100-240V~, 50/60Hz 0.4A		
Software Version	1	N/A			
Hardware Version	•	N/A			

Remark:

(3) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



⁽¹⁾ The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab

⁽²⁾ The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

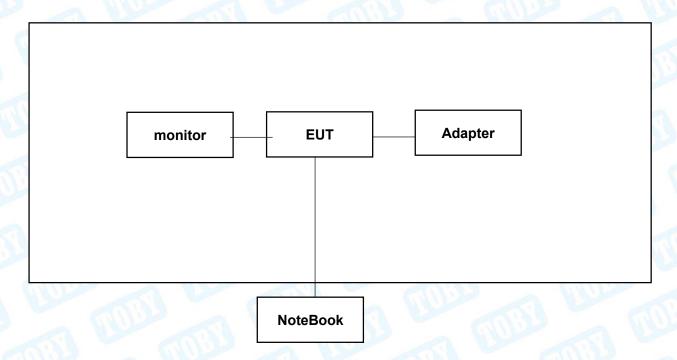


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(4) Channel List:

	Bluetooth Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
00	2402	27	2429	54	2456		
01	2403	28	2430	55	2457		
02	2404	29	2431	56	2458		
03	2405	30	2432	57	2459		
04	2406	31	2433	58	2460		
05	2407	32	2434	59	2461		
06	2408	33	2435	60	2462		
07	2409	34	2436	61	2463		
80	2410	35	2437	62	2464		
09	2411	36	2438	63	2465		
10	2412	37	2439	64	2466		
11	2413	38	2440	65	2467		
12	2414	39	2441	66	2468		
13	2415	40	2442	67	2469		
14	2416	41	2443	68	2470		
15	2417	42	2444	69	2471		
16	2418	43	2445	70	2472		
17	2419	44	2446	71	2473		
18	2420	45	2447	72	2474		
19	2421	46	2448	73	2475		
20	2422	47	2449	74	2476		
21	2423	48	2450	75	2477		
22	2424	49	2451	76	2478		
23	2425	50	2452	77	2479		
24	2426	51	2453	78	2480		
25	2427	52	2454				
26	2428	53	2455		VAN		

1.3 Block Diagram Showing the Configuration of System Tested







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1.4 Description of Support Units

Equipment Information					
Name	Model	S/N	Manufacturer	Used "√"	
Notebook	HYLR-WFQ9	AAMFPM1418000165	honour	√	
Flat Panel Monitor	S2719HS	CN-05YH42-WSL00 -9CC-400L-A05	DELL	V	

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test(AC POWER)				
Final Test Mode Description				
Mode 1 TX GFSK Mode Channel 00				
For	Radiated and RF Conducted Test			
Final Test Mode	Description			
Mode 1	TX GFSK Mode Channel 00			
Mode 2	TX Mode(GFSK) Channel 00/39/78			
Mode 3	TX Mode(π/4-DQPSK) Channel 00/39/78			
Mode 4	TX Mode(8DPSK) Channel 00/39/78			
Mode 5	Hopping Mode(GFSK)			
Mode 6	Hopping Mode(π/4-DQPSK)			
Mode 7 Hopping Mode(8DPSK)				

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: GFSK (1 Mbps)
TX Mode:π/4-DQPSK (2 Mbps)
TX Mode: 8DPSK (3 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a Mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.





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1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version		adb command	
Frequency	2402 MHz	2441MHz	2480 MHz
GFSK	DEF	DEF	DEF
π/4-DQPSK	DEF	DEF	DEF
8DPSK	DEF	DEF	DEF

1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.50 dB ±3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB





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1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.





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2. Test Summary

Standard Section	Test Item	Test Sample(s)	Judgment	Remark
FCC 15.207(a)	Conducted Emission	HC-C-202408-0094-02-01	PASS	N/A
FCC 15.209 & 15.247(d)	Radiated Unwanted Emissions	HC-C-202408-0094-02-01	PASS	N/A
FCC 15.203	Antenna Requirement	HC-C-202408-0094-01-01	PASS	N/A
FCC 15.247(a)	99% Occupied Bandwidth & 20dB Bandwidth	HC-C-202408-0094-01-01	PASS	N/A
FCC 15.247(b)(1)	Peak Output Power	HC-C-202408-0094-01-01	PASS	N/A
FCC 15.247(a)(1)	Carrier frequency separation	HC-C-202408-0094-01-01	PASS	N/A
FCC 15.247(a)(1)	Time of occupancy	HC-C-202408-0094-01-01	PASS	N/A
FCC 15.247(b)(1)	Number of Hopping Frequency	HC-C-202408-0094-01-01	PASS	N/A
FCC 15.247(d)	Band Edge	HC-C-202408-0094-02-01	PASS	N/A
FCC 15.207(a)	Conducted Unwanted Emissions	HC-C-202408-0094-02-01	PASS	N/A
FCC 15.205	Emissions in Restricted Bands	HC-C-202408-0094-01-01	PASS	N/A
10000	On Time and Duty Cycle	HC-C-202408-0094-02-01	1 (1)	N/A

3. Test Software

Note: N/A is an abbreviation for Not Applicable.

Version No. **Test Item Test Software** Manufacturer **Conducted Emission EZ-EMC** EZ CDI-03A2 **Radiation Emission EZ-EMC** EZ FA-03A2RE **Radiation Emission EZ-EMC** EZ FA-03A2RE+ **RF Conducted** MTS-8310 **MWRFtest** V2.0.0.0 Measurement **RF Test System** JS1120 **Tonscend** V3.2.22





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4. Test Equipment and Test Site

Test Site				
No.	Test Site	Manufacturer	Specification	Used
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 (m)	√
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 (m)	√
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 (m)	X
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 (m)	V

Conducted Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 17, 2024	Jun. 16, 2025
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 17, 2024	Jun. 16, 2025
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 17, 2024	Jun. 16, 2025
LISN	Rohde & Schwarz	ENV216	101131	Jun. 17, 2024	Jun. 16, 2025
Radiation Emission	Test(B Site)				-
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 30, 2023	Aug. 29, 2024
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb.22, 2025
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 30, 2023	Aug. 29, 2024
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 30, 2023	Aug. 29, 2024
Highpass Filter	CD	HPM-6.4/18G		N/A	N/A
Highpass Filter	CD	HPM-2.8/18G		N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A
Antenna Conducted	Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 30, 2023	Aug. 29, 2024
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Aug. 30, 2023	Aug. 29, 2024
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Aug. 30, 2023	Aug. 29, 2024
IN FUWER SERISUR	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Aug. 30, 2023	Aug. 29, 2024
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Aug. 30, 2023	Aug. 29, 2024
Temperature and Humidity Chamber	ZhengHang	ZH-QTH-1500	ZH2107264	Jun. 17, 2024	Jun. 16, 2025





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Conducted Emissio	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 17, 2024	Jun. 16, 2025
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 17, 2024	Jun. 16, 2025
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 17, 2024	Jun. 16, 2025
LISN	Rohde & Schwarz	ENV216	101131	Jun. 17, 2024	Jun. 16, 2025
Radiation Emission	Test(B Site)				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 29, 2024	Aug. 28, 2025
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb.22, 2025
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 29, 2024	Aug. 28, 2025
Highpass Filter	CD	HPM-6.4/18G		N/A	N/A
Highpass Filter	CD	HPM-2.8/18G		N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A
Antenna Conducted	Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 29, 2024	Aug. 28, 2025
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Aug. 29, 2024	Aug. 28, 2025
1	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Aug. 29, 2024	Aug. 28, 2025
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Aug. 29, 2024	Aug. 28, 2025
Temperature and Humidity Chamber	ZhengHang	ZH-QTH-1500	ZH2107264	Jun. 17, 2024	Jun. 16, 2025





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5. Conducted Emission

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.207

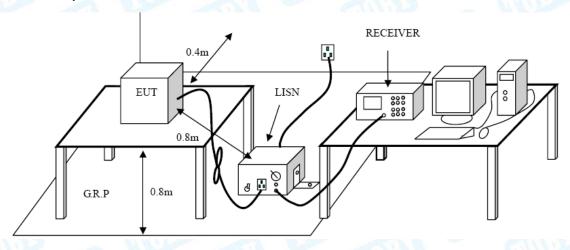
5.1.2 Test Limit

Francis	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

- 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.
- 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.
- ●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.
- •LISN at least 80 cm from nearest part of EUT chassis.
- The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation





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5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A inside test report.





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6. Radiated and Conducted Unwanted Emissions

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209 & FCC Part 15.247(d)

6.1.2 Test Limit

General field strength limits at frequencies Below 30MHz			
Frequency (MHz)	Field Strength (microvolt/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	

Note: 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

General field strength limits at frequencies above 30 MHz			
Frequency (MHz)	Field strength (µV/m at 3 m)	Measurement Distance (meters)	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	

General field strength limits at frequencies Above 1000MHz			
Frequency Distance of 3m (dBuV/m)			
(MHz)	Peak	Average	
Above 1000	74	54	

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

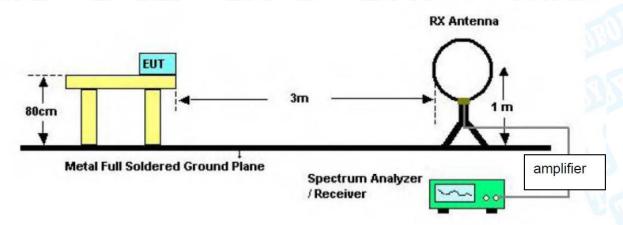
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.



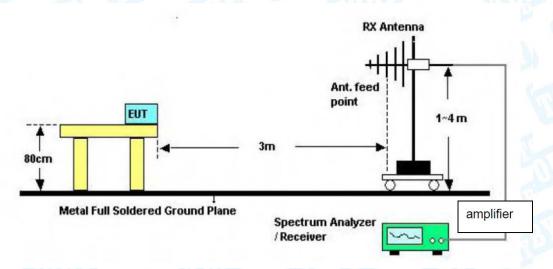
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6.2 Test Setup

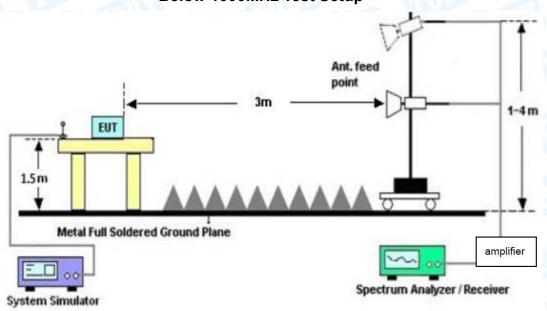
Radiated measurement



Below 30MHz Test Setup



Below 1000MHz Test Setup



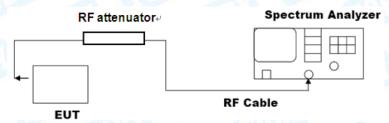
Above 1GHz Test Setup





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Conducted measurement



6.3 Test Procedure

---Radiated measurement

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- 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.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.
- Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- For the actual test configuration, please see the test setup photo.





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--- Conducted measurement

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to≥1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW≥[3*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW≥[3*RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Mode

Please refer to the description of test mode.

6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report. Conducted measurement please refer to the external appendix report of BT.





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7. Restricted Bands and Band Edge Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.247(d)

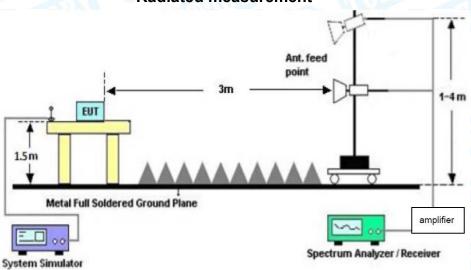
7.1.2 Test Limit

Restricted Frequency	Distance Meters(at 3m)		
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)	
2310 ~2390	74	54	
2483.5 ~2500	74	54	
	Peak (dBm)see 7.3 e)	Average (dBm) see 7.3 e)	
2310 ~2390	-21.20	-41.20	
2483.5 ~2500	-21.20	-41.20	

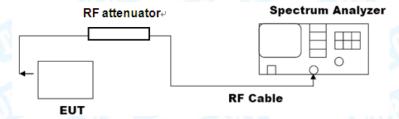
Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test forcabinet/case emissions is required.

7.2 Test Setup

Radiated measurement



Conducted measurement







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7.3 Test Procedure

---Radiated measurement

- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- 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.
- The Peak Value and average value both need to comply with applicable limit above 1 GHz.
- Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- For the actual test configuration, please see the test setup photo.

--- Conducted measurement

- a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).
- c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).
- d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).
- e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

 $E = EIRP-20 \log d + 104.8$

where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

- f) Compare the resultant electric field strength level with the applicable regulatory limit.
- g) Perform the radiated spurious emission test.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

7.6 Test Data

Please refer to the Attachment C inside test report.





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8. 99% Occupied and 20dB Bandwidth

8.1 Test Standard and Limit

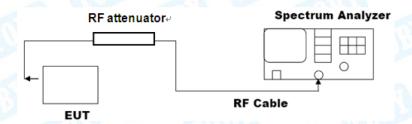
8.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.247(a)

8.1.2 Test Limit

For an FHSS system operating in the 2400 to 2483.5 MHz band, there are no limits for 20dB bandwidth and 99% occupied bandwidth.

8.2 Test Setup



8.3 Test Procedure

- The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).





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8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Mode

Please refer to the description of test mode.

8.6 Test Data

Please refer to the external appendix report of BT.





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9. Peak Output Power Test

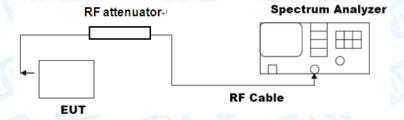
- 9.1 Test Standard and Limit
 - 9.1.1 Test Standard

FCC Part 15.247(b)(1)

9.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	$P_{\text{max-pk}} \le 1 \text{ W}$ $N_{ch} \ge 75$ f ≥ MAX { 25 kHz, BW20dB } max. BW20dB not specified $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$ $P_{\text{max-pk}} \le 0.125 \text{ W}$ $N_{ch} \ge 15$ f ≥ [MAX{25 kHz, 0.67*BW20dB} OR MAX{25 kHz, BW20dB}] max. BW20dB not specified $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$	2400~2483.5
	scupancy; $T = \text{period}$; $N_{ch} = \# \text{hopping}$ f = hopping channel carrier frequency	

9.2 Test Setup



9.3 Test Procedure

- This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:
- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW≥ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

NOTE-A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.





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9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Mode

Please refer to the description of test mode.

9.6 Test Data

Please refer to the external appendix report of BT.





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10. Carrier frequency separation

10.1 Test Standard and Limit

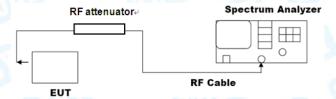
10.1.1 Test Standard

FCC Part 15.247(a)(1)

10.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)	
Carrier frequency separation	$P_{\text{max-pk}} \le 1 \text{ W}$ $N_{ch} \ge 75$ f ≥ MAX { 25 kHz, BW20dB } max. BW20dB not specified $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$ $P_{\text{max-pk}} \le 0.125 \text{ W}$ $N_{ch} \ge 15$ f ≥ [MAX{25 kHz, 0.67*BW20dB} OR MAX{25 kHz, BW20dB}] max. BW20dB not specified $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N_{\text{ch}}$	2400~2483.5	
	ccupancy; $T = period$; $N_{ch} = \# hopping$		
f = hopping channel carrier frequency separation			

10.2 Test Setup



10.3 Test Procedure

● The EUT shall have its hopping function enabled. Use the following spectrum analyzer

settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) ≥ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

10.4 Deviation From Test Standard

No deviation





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10.5 Antenna Connected Construction

Please refer to the description of test mode.

10.6 Test Data

Please refer to the external appendix report of BT.





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11. Time of occupancy (dwell time)

11.1 Test Standard and Limit

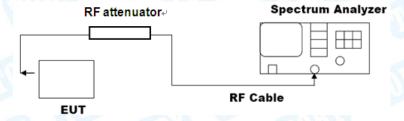
11.1.1 Test Standard

FCC Part 15.247(a)(1)

11.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)	
Time of occupancy (dwell time)	$P_{\text{max-pk}} \le 1 \text{ W}$ $N_{ch} \ge 75$ $f \ge \text{MAX} \{ 25 \text{ kHz, BW}_{20dB} \}$ $\text{max. BW}_{20dB} \text{ not specified}$ $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$ $P_{\text{max-pk}} \le 0.125 \text{ W}$ $N_{ch} \ge 15$ $f \ge [\text{ MAX}_{25 \text{ kHz, 0.67*BW}_{20dB}}]$ $\text{OR MAX}_{25 \text{ kHz, BW}_{20dB}}]$ $\text{max. BW}_{20dB} \text{ not specified}$ $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$	2400~2483.5	
	ccupancy; $T = period$; $N_{ch} = \# hopping$		
f = hopping channel carrier frequency separation			

11.2 Test Setup



11.3 Test Procedure

- The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be \Box channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops





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over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer)x(period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

11.4 Deviation From Test Standard

No deviation

11.5 Antenna Connected Construction

Please refer to the description of test mode.

11.6 Test Data

Please refer to the external appendix report of BT.





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12. Number of hopping frequencies

12.1 Test Standard and Limit

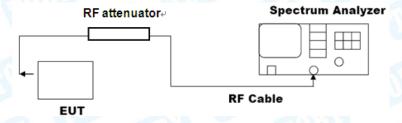
12.1.1 Test Standard

FCC Part 15.247(b)(1)

12.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Carrier frequency separation	$P_{\text{max-pk}} \le 1 \text{ W}$ $N_{ch} \ge 75$ f ≥ MAX { 25 kHz, BW20dB } max. BW20dB not specified $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$ $P_{\text{max-pk}} \le 0.125 \text{ W}$ $N_{ch} \ge 15$ f ≥ [MAX{25 kHz, 0.67*BW20dB} OR MAX{25 kHz, BW20dB}] max. BW20dB not specified $t\text{ch} \le 0.4 \text{ s for } T = 0.4^*N\text{ch}$	2400~2483.5
	ccupancy; <i>T</i> = period; <i>N</i> ch = # hopping f = hopping channel carrier frequency	

12.2 Test Setup



12.3 Test Procedure

- The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW ≥ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.

Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

12.4 Deviation From Test Standard

No deviation





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12.5 Antenna Connected Construction

Please refer to the description of test mode.

12.6 Test Data

Please refer to the external appendix report of BT.





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13. Antenna Requirement

13.1 Test Standard and Limit

11.1.1 Test Standard

FCC Part 15.203

11.1.2 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 shall be considered sufficient to comply with the provisions of this Section. 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.

13.2 Deviation From Test Standard

No deviation

13.3 Antenna Connected Construction

The gains of the antenna used for transmitting is -0.03dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

13.4 Test Data

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

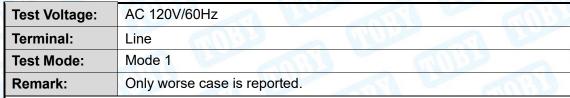
	Antenna Type							
1372	⊠Permanent attached antenna	0						
	☐Unique connector antenna							
	☐Professional installation antenna							

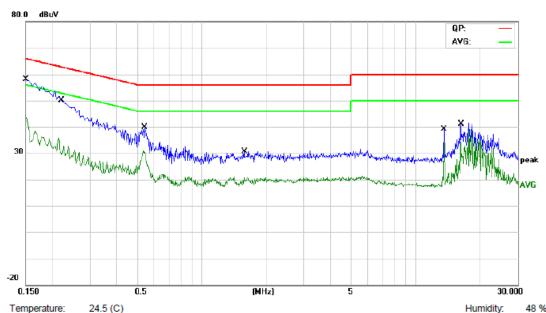




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Attachment A-- Conducted Emission Test Data





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	44.50	10.19	54.69	65.99	-11.30	QP
2		0.1500	26.20	10.19	36.39	55.99	-19.60	AVG
3		0.2232	37.45	10.03	47.48	62.70	-15.22	QP
4		0.2232	20.41	10.03	30.44	52.70	-22.26	AVG
5		0.5420	26.26	9.93	36.19	56.00	-19.81	QP
6		0.5420	19.73	9.93	29.66	46.00	-16.34	AVG
7		1.5780	14.50	10.04	24.54	56.00	-31.46	QP
8		1.5780	8.44	10.04	18.48	46.00	-27.52	AVG
9		13.5620	10.79	11.01	21.80	60.00	-38.20	QP
10		13.5620	5.91	11.01	16.92	50.00	-33.08	AVG
11		16.2300	26.71	11.10	37.81	60.00	-22.19	QP
12		16.2300	22.30	11.10	33.40	50.00	-16.60	AVG

Remark

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

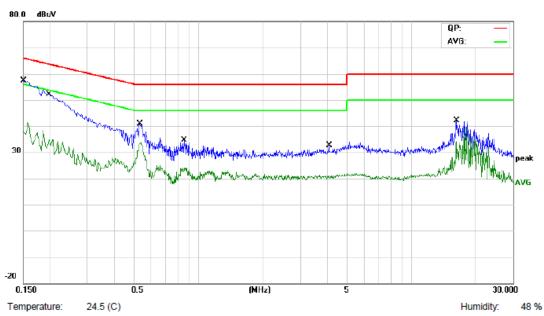
2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





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Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Test Mode:	Mode 1
Remark:	Only worse case is reported.
80.0 dBuV	QP: —



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 *	0.1500	44.82	10.19	55.01	65.99	-10.98	QP
2	0.1500	26.92	10.19	37.11	55.99	-18.88	AVG
3	0.2008	39.52	10.06	49.58	63.57	-13.99	QP
4	0.2008	21.90	10.06	31.96	53.57	-21.61	AVG
5	0.5299	26.98	9.93	36.91	56.00	-19.09	QP
6	0.5299	23.08	9.93	33.01	46.00	-12.99	AVG
7	0.8540	18.20	9.92	28.12	56.00	-27.88	QP
8	0.8540	12.68	9.92	22.60	46.00	-23.40	AVG
9	4.1100	14.84	10.10	24.94	56.00	-31.06	QP
10	4.1100	9.46	10.10	19.56	46.00	-26.44	AVG
11	16.2260	28.94	11.10	40.04	60.00	-19.96	QP
12	16.2260	23.04	11.10	34.14	50.00	-15.86	AVG

- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





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Attachment B--Unwanted Emissions Data

--- Radiated Unwanted Emissions

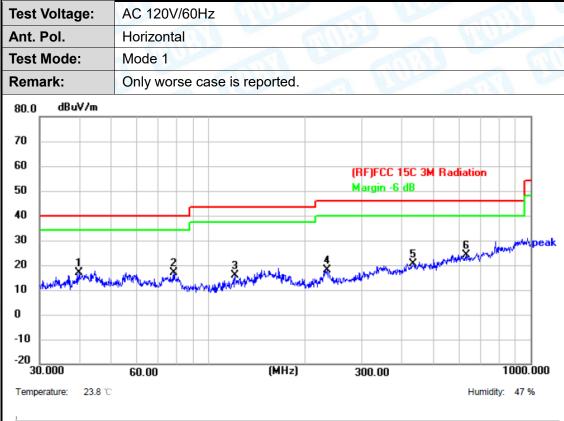
9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

Below the permissible value has no need to be reported.

30MHz~1GHz



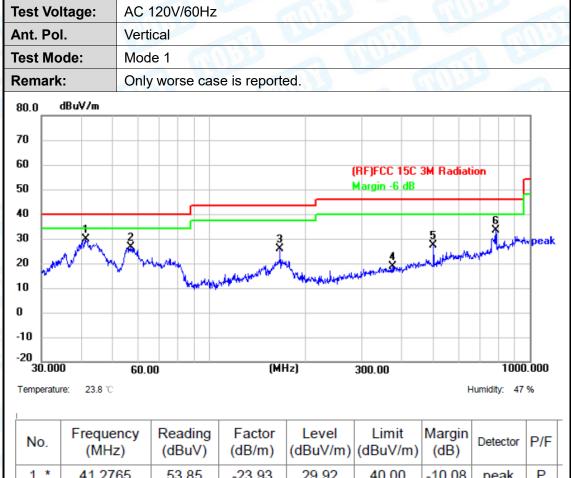
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.8542	40.29	-23.39	16.90	40.00	-23.10	peak	Р
2	78.1389	43.95	-27.00	16.95	40.00	-23.05	peak	Р
3	121.1231	39.63	-23.88	15.75	43.50	-27.75	peak	Р
4	233.3487	42.19	-24.20	17.99	46.00	-28.01	peak	Р
5	432.5457	38.12	-17.51	20.61	46.00	-25.39	peak	Р
6 *	631.6884	37.29	-13.30	23.99	46.00	-22.01	peak	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB μ V/m)-Limit QPK(dB μ V/m)





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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	41.2765	53.85	-23.93	29.92	40.00	-10.08	peak	Р
2	56.9912	50.84	-24.14	26.70	40.00	-13.30	peak	Р
3	166.6514	47.85	-22.12	25.73	43.50	-17.77	peak	Р
4	374.6225	38.27	-19.56	18.71	46.00	-27.29	peak	Р
5	501.1790	44.37	-16.93	27.44	46.00	-18.56	peak	Р
6	782.3453	44.83	-11.33	33.50	46.00	-12.50	peak	Р

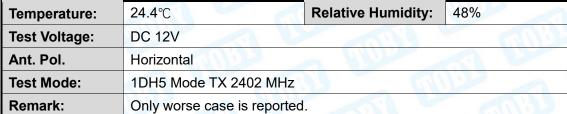
- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB μ V/m)-Limit QPK(dB μ V/m)

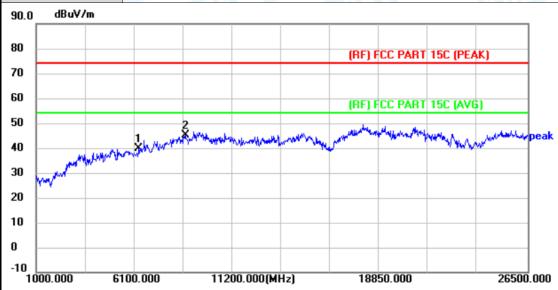




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Above 1GHz





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6329.500	49.01	-9.15	39.86	74.00	-34.14	peak	Р
2 *	8752.000	48.92	-3.70	45.22	74.00	-28.78	peak	Р

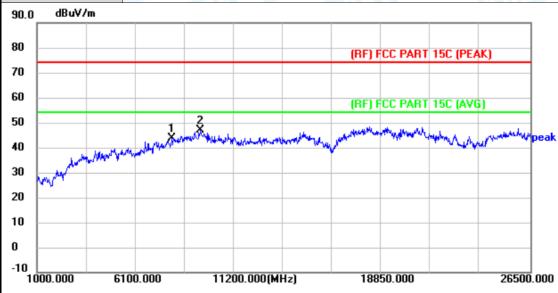
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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		The second secon	
Temperature:	24.4℃	Relative Humidity:	48%
Test Voltage:	DC 12V		WW.
Ant. Pol.	Vertical		
Test Mode:	1DH5 Mode TX 2402 MH	l z	
Remark:	Only worse case is report	ted.	COURSE OF THE PARTY OF THE PART



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	7987.000	49.58	-5.96	43.62	74.00	-30.38	peak	Р
2 *	9466.000	46.48	0.35	46.83	74.00	-27.17	peak	Р

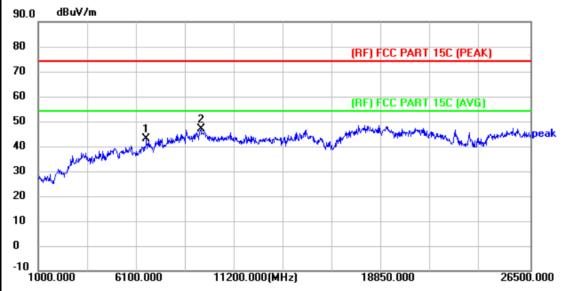
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value \leq average limit, So only show the peak value.





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Temperature:	24.4°C Relative Humidity: 48%
Test Voltage:	DC 12V
Ant. Pol.	Horizontal
Test Mode:	1DH5 Mode TX 2441MHz
Remark:	Only worse case is reported.
90.0 dBuV/m	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6610.000	51.78	-8.74	43.04	74.00	-30.96	peak	Р
2 *	9440.500	46.72	0.16	46.88	74.00	-27.12	peak	Р

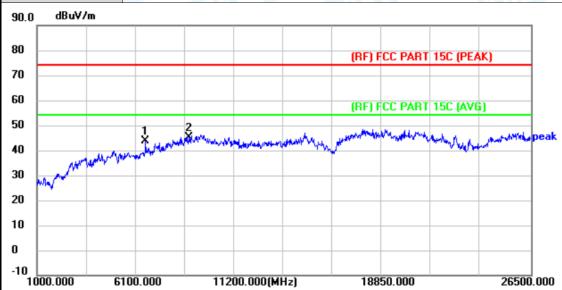
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃	Relative Humidity:	48%
Test Voltage:	DC 12V		WUP:
Ant. Pol.	Vertical		
Test Mode:	1DH5 Mode TX 2441MHz		
Remark:	Only worse case is reported		



No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6610.000	52.34	-8.74	43.60	74.00	-30.40	peak	Р
2 *	8828.500	49.21	-3.91	45.30	74.00	-28.70	peak	Р

Remark:

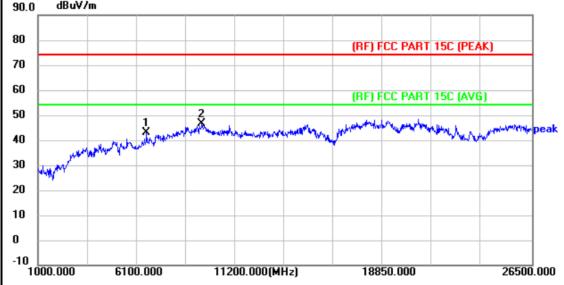
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃	Relative Humidity:	: 48%					
Test Voltage:	DC 12V		and it					
Ant. Pol.	Horizontal	A HILL						
Test Mode:	1DH5 Mode TX 2480MHz							
Remark:	Only worse case is reported							
90.0 dBuV/m								
80		(RF) FCC PART	15C (PEAK)					
70								



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6610.000	51.72	-8.74	42.98	74.00	-31.02	peak	Р
2 *	9466.000	46.10	0.35	46.45	74.00	-27.55	peak	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperati	ure:	24.4℃			Relative	Humidity	/ : 48%	6		
Test Volta	ge:	DC 12V		a v		ALIEN S		Cal	W	
Ant. Pol.		Vertical	CILL	1916		1		1 63		
Test Mode) :	1DH5 M	DH5 Mode TX 2480MHz							
Remark:		Only wo	rse case	e is reporte	ed.	20 1		em'	1	
90.0 dBu	V/m									
80 70 60 50 40 30	good and parties of the control of t	The state of the s	in the second	And a service of the	(RF	FCC PART	15C (AV	i)	peak	
10 D -10	61	00.000	112	00.000(MHz)	11	3850.000		26500	0.000	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	7298.500	51.36	-7.89	43.47	74.00	-30.53	peak	Р
2 *	9440.500	46.21	0.16	46.37	74.00	-27.63	peak	Р

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

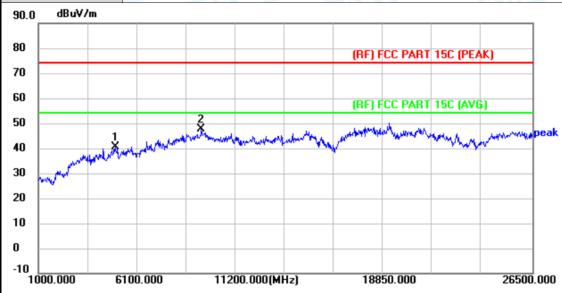
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃	Relative Humidity:	48%
Test Voltage:	DC 12V		
Ant. Pol.	Horizontal	7 110	
Test Mode:	2DH5 Mode TX 2402MHz	13 (1)	
Remark:	Only worse case is reported		Call Day



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4978.000	51.74	-11.10	40.64	74.00	-33.36	peak	Р
2 *	9415.000	47.79	-0.24	47.55	74.00	-26.45	peak	Р

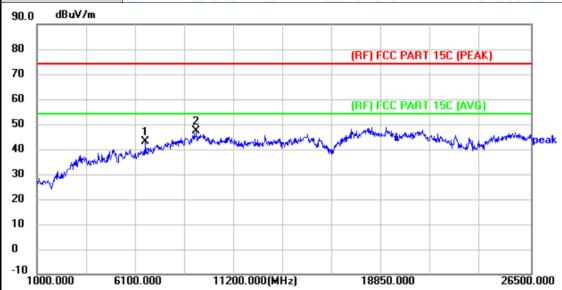
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃	Relative Humidity:	48%	
Test Voltage:	DC 12V			
Ant. Pol.	Vertical		1	6.3
Test Mode:	2DH5 Mode TX 2	2402MHz	1106	
Remark:	Only worse case	is reported.		ATTIVE STATE
90.0 dBuV/m	'			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6610.000	51.81	-8.74	43.07	74.00	-30.93	peak	Р
2 *	9236.500	49.44	-2.17	47.27	74.00	-26.73	peak	Р

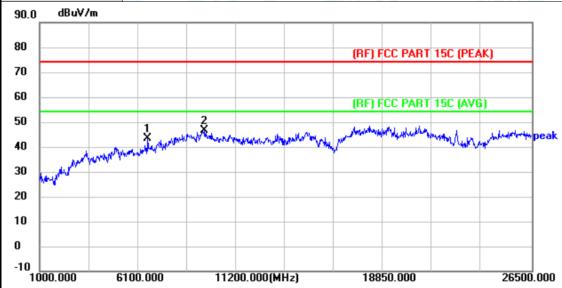
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value \leq average limit, So only show the peak value.





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24.4℃ Relative Humidity: 48%
DC 12V
Horizontal
2DH5 Mode TX 2441MHz
Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	6610.000	52.04	-8.74	43.30	74.00	-30.70	peak	Р
2 *	9517.000	46.13	0.35	46.48	74.00	-27.52	peak	Р

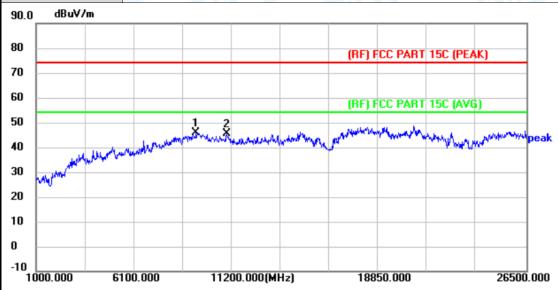
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃	Relative Humidity:	48%
Test Voltage:	DC 12V		
Ant. Pol.	Vertical	A HILL	17 E
Test Mode:	2DH5 Mode TX 2441MHz	13 (1)	
Remark:	Only worse case is reported		
22.2 dD.3//-			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	9313.000	47.75	-1.79	45.96	74.00	-28.04	peak	Р
2	10919.500	45.94	-0.49	45.45	74.00	-28.55	peak	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃			Relative H	umidity:	48%		
Test Voltage:	DC 12V		2 W		2011		Tim	13
Ant. Pol.	Horizonta		1.50			47	16.70	
Test Mode:	2DH5 Mc	de TX 2	480MHz	10	_ G	MUL		n.
Remark:	Only wors	se case i	is reported	1.	1			
90.0 dBuV/m								
80				(RF) I	CC PART	15C (PEA	ıK)	
70								
60				(RF) I	CC PART	15C (AV6	i)	
30	. ke armanangkan	1 hart Markething a small	2 Marina Marina	A STATE OF THE PARTY OF THE PAR	سامار الماليان المالي	Markey (Line) (Line)	la principal de la companya de la co	peak
30	Www.							
20								
10								
0								
-10 1000.000	6100.000	1120	0.000(MHz)	188	50.000		26500	 .000

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	9619.000	46.88	-0.15	46.73	74.00	-27.27	peak	Р
2	12041.500	43.59	0.44	44.03	74.00	-29.97	peak	Р

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temper	ature:	24.4°C		Relative Humidity: 48%				
Test Vo	Itage:	DC 12V					W.	
nt. Po	l.	Vertical	400		MAIN		The state of	
est Mo	de:	2DH5 Mod	e TX 2480MH	z		MIDE.		
Remark	mark: Only worse case is reported.						1127	
90.0	dBuV/m							
. [
BO					(RF) FCC PART	15C (PEAK)		
70							\dashv	
60 <u> </u>					(RF) FCC PART	15C (AVG)	-	
50			1 X. 3					
40	الاسمعلالعرب الهمامي	A SEC. AND BELLEVIEW TO BE	Museum and my	Property of the Party of the pa	والمراد المستواهد والمالية والمالود	hand - my breaking	4•peak	
30	AND REPORT OF THE PARTY OF	7 14						
20								
10								
0 -								
-10 <u> </u>	000 6	100.000	11200.000(MI	Hz)	18850.000	265	.00.000	
No.	Frequen		•	Level		largin	r P/F	

Remark:

1 *

2

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

(MHz)

9338.500

10741.000

- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

(dBuV)

47.61

46.22

(dB/m)

-1.00

-1.25

4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.

(dBuV/m) (dBuV/m)

74.00

74.00

46.61

44.97

(dB)

-27.39

-29.03

peak

peak

Ρ

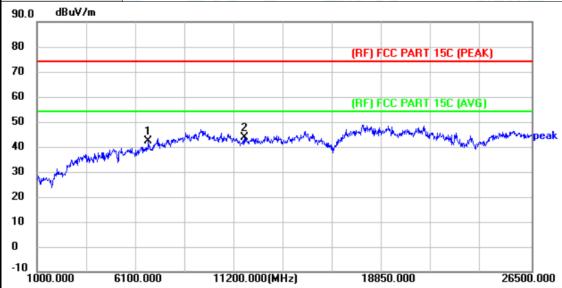
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4 °C	Relative Humidity:	48%
Test Voltage:	DC 12V		
Ant. Pol.	Horizontal		
Test Mode:	3DH5 Mode TX 2402MHz	33 (1)	
Remark:	Only worse case is reported		COMP.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	6737.500	50.31	-8.04	42.27	74.00	-31.73	peak	Р
2 *	11684.500	44.09	-0.33	43.76	74.00	-30.24	peak	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





20 10 0

-10 L 1000.000 Report No.: TBR-C-202408-0094-11

26500.000

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Tem	peratur	e:	24.4℃	1 6		Rela	itive Hu	midity:	48%	
Test	Voltage) :	DC 12V			1300		DA.		
Ant.	Pol.		Vertical	MIL			11/11/1	A second		6300
Test	Mode:		3DH5 M	DH5 Mode TX 2402MHz						
Rem	ark:		Only wo	Only worse case is reported.						earlist of
90.0	dBuV/	m								
80 70							(RF) I	CC PART	15C (PEA	AK)
60							(RF) I	CC PART	15C (AVC	3)
50 40	anter	wathprofes	The special state of the speci	NAME OF STREET	2	بالاسرادا ها المارا معالم المارا المعالم	are the standards	willy and with the body	moher	peal
30	Nava/Maria									

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	9491.500	46.30	0.44	46.74	74.00	-27.26	peak	Р
2	12985.000	44.86	0.72	45.58	74.00	-28.42	peak	Р

18850.000

11200.000(MHz)

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

6100.000

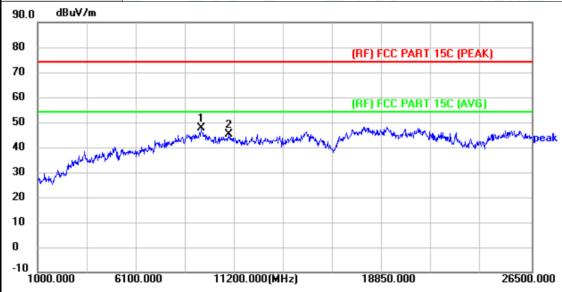
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4℃	Relative Humidity:	48%
Test Voltage:	DC 12V	087	
Ant. Pol.	Horizontal	A VIV	
Test Mode:	3DH5 Mode TX 2441MHz		
Remark:	Only worse case is reported	I	
90.0 dBuV/m			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	9440.500	47.51	0.16	47.67	74.00	-26.33	peak	Р
2	10894.000	45.71	-0.58	45.13	74.00	-28.87	peak	Р

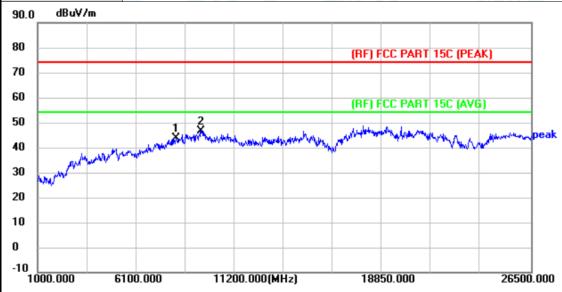
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Temperature:	24.4°C	Relative Humidity:	48%
Test Voltage:	DC 12V		
Ant. Pol.	Vertical	N.W.	
Test Mode:	3DH5 Mode TX 2441MHz		
Remark:	Only worse case is reported	d.	
22.2 JD-3//-			



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	8165.500	48.88	-5.14	43.74	74.00	-30.26	peak	Р
2 *	9440.500	46.60	0.16	46.76	74.00	-27.24	peak	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





26500.000

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Temperature:	24.4℃	Relative Humidity: 48%
Test Voltage:	DC 12V	and and
Ant. Pol.	Horizontal	
Test Mode:	3DH5 Mode TX 2480MHz	
Remark:	Only worse case is report	ed.
90.0 dBuV/m		
80		(05) 500 0107 150 (05.48)
70		(RF) FCC PART 15C (PEAK)
60		(RF) FCC PART 15C (AVG)
50	1 × 2	www.hara beak harangananana a sanaharananananananananananananananananan
40	Market Conference of the Confe	some of the state
30	when when the same of the same	
20		
10		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	9466.000	46.23	0.35	46.58	74.00	-27.42	peak	Р
2	11786.500	43.02	0.14	43.16	74.00	-30.84	peak	Р

18850.000

11200.000(MHz)

Remark:

-10 L 1000.000

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

6100.000

- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value \leq average limit, So only show the peak value.





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Гетр	erature):	24.4°C	1 6		Relative H	lumidity:	48%	
Test \	/oltage	:	DC 12V		O V		100		
Ant. F	Pol.		Vertical	CIII)	1015				
Test N	Mode:		3DH5 M	ode TX	2480MHz	133		III III	
Rema	rk:		Only wo	rse case	e is reporte	d.		600	1133
90.0	dBuV/i	m							_
80						(RF)	FCC PART 1	5C (PEAK)	
70									
60						(RF)	FCC PART 1	5C (AVG)	
50 40			المراجعة المراجعة	Marrie (Argher	Landing Share	White the water	المارية	hand hand hand hand hand hand hand hand	₩"peak
30	my red reference	Maria da							
20 10									
0									
-10 100	00.000	61	00.000	112	200.000(MHz)	18	850.000	26!	500.000

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1 *	9440.500	47.04	0.16	47.20	74.00	-26.80	peak	Р
2	13036.000	43.31	0.61	43.92	74.00	-30.08	peak	Р

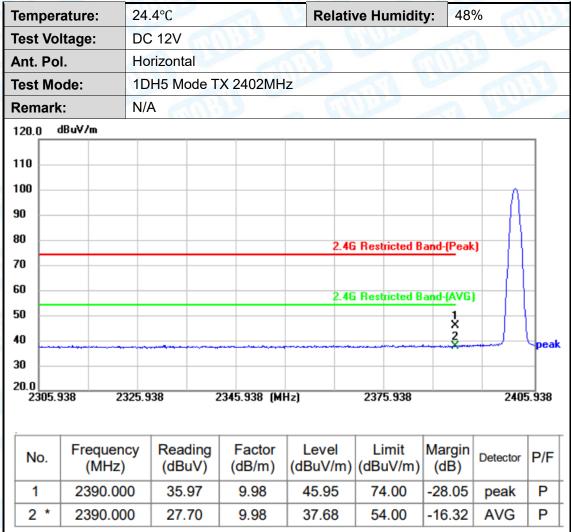
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. Test with highpass filter (Pass Frequency: 2.8-18G and 8-25G), and 18GHz-26.5GHz is the noise, No other signals were detected.
- 5. No report for the emission which below the prescribed limit.
- 6. The peak value < average limit, So only show the peak value.





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Attachment C-- Restricted Bands Data



- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C		Relative Hu	midity: 48%	
Test Voltage:	DC 12V		U C	0.0	mn's
Ant. Pol.	Vertical				1 600
Test Mode:	1DH5 Mo	de TX 2402N	lHz		
Remark:	N/A				COUNTY OF THE PARTY OF THE PART
120.0 dBuV/m					
110					
100					
90					
80			2.4G Res	tricted Band-(Peak	+
70					
60			2.46.0	1:	
50			2.46 Hes	tricted Band-(AVG)	
40				1 2	
					/peal
30					
20.0 2305.938	2325.938	2345.938 (MH-1 227	75.938	2405.938

No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2390.000	33.59	9.98	43.57	74.00	-30.43	peak	Р
2	2390.000	27.62	9.98	37.60	54.00	-16.40	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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emperature:	24.4°C	Relative Humi	idity: 48%
est Voltage:	DC 12V		
nt. Pol.	Horizontal		
est Mode:	1DH5 Mode TX	(2480MHz	CHILDRA OF
Remark:	N/A		
20.0 dBuV/m			
10			
00			
30			
30		2.4G Restric	ted Band-(Peak)
70			
50		2.4G Restric	ted Band-(AVG)
50	1 ×		
10	ĝ		peal
30			Jean Jean Jean Jean Jean Jean Jean Jean
20.0			
	2484.384 24	194.257 (MHz) 2509.0	66 2523.876

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2483.500	36.69	10.20	46.89	74.00	-27.11	peak	Р
2 *	2483.500	28.32	10.20	38.52	54.00	-15.48	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C		Relative Humi	dity: 48%	
est Voltage:	DC 12V				
nt. Pol.	Vertical				6
est Mode:	1DH5 Mod	de TX 2480MI	Hz	CILLE	
Remark:	N/A				em'il
120.0 dBuV/m					
10					
100					
90					
30			2.4G Restric	ted Band-(Peak)	
70					
60 \\			2.4C Postrio	ted Band-(AVG)	
50			2.40 1168010	teu banu-(A+u)	
10	ž				
	···×				peal
30					
20.0 2474.511	2484.384	2494.257 (N	4Hz) 2509.0	nee	2523.876

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2483.500	33.31	10.20	43.51	74.00	-30.49	peak	Р
2 *	2483.500	28.20	10.20	38.40	54.00	-15.60	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C		Rel	lative Humidi	ty: 48%		
Test Voltage:	DC 12V		C. S. C.				M
Ant. Pol.	Horizonta	al ((())		AL LONG		16	
Test Mode:	2DH5 Mc	ode TX 2402	2MHz		CILITY		
Remark:	N/A		A Brown			em'	
120.0 dBuV/m							
110							
100							1
						Λ	1
90							1
30				2.4G Restricted	Band-(Peak)		
70							1
60				2.4G Restricted	l Band-(AVG)	\rightarrow	-
50					1 X		-
40					ĝ~		peak
30							
20.0							
2305.938	2325.938	2345.938	(MHz)	2375.938		2405.	938

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2390.000	36.40	9.98	46.38	74.00	-27.62	peak	Р
2 *	2390.000	28.31	9.98	38.29	54.00	-15.71	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C		Relative Humidity	y : 48%	
Гest Voltage:	DC 12V				
Ant. Pol.	Vertical	MINO			E. Branch
Test Mode:	2DH5 Mod	de TX 2402MH	z	MIDE	
Remark:	N/A	A V			Miles
120.0 dBuV/m					
110					
100					
90					Λ.
30			2.4G Restricted Ba	and-(Peak)	+
70					++
60			2.4G Restricted Ba	and-(AVG)	++
50				1	+++
40				ż	11
30				- X	pea
20.0					
	2325.938	2345.938 (MI	1z) 2375.938		2405.938

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2390.000	33.80	9.98	43.78	74.00	-30.22	peak	Р
2 *	2390.000	27.40	9.98	37.38	54.00	-16.62	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C	Relative Humidit	y : 48%
est Voltage:	DC 12V		ans:
nt. Pol.	Horizontal		1
est Mode:	2DH5 Mode TX 24	480MHz	
Remark:	N/A	A DOMESTICATION OF THE PARTY OF	
120.0 dBuV/m			
10			
100			
90			
30		2.4G Restricted	Band-(Peak)
70			
60		2.4G Restricted	Rand-(AVG)
50 /	1	E. Ta Troubleta	build (ATG)
, N	1 X		
30			peal
20.0			
	2484.384 2494.	.257 (MHz) 2509.066	2523.876

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2483.500	35.47	10.20	45.67	74.00	-28.33	peak	Р
2 *	2483.500	28.82	10.20	39.02	54.00	-14.98	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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emperature:	24.4°C		Relative Humidity:	48%
est Voltage:	DC 12V	10		
nt. Pol.	Vertical	THE STATE OF THE S	A HILL	
est Mode:	2DH5 Mode	TX 2480MHz		
emark:	N/A	A KING		
20.0 dBuV/m				
10				
00				
0				
eo			2.4G Restricted Band-	(Peak)
'o o				
:0			2.4G Restricted Band-	(AVG)
io	1			
0	1 X			pea
0				
0.0	2484.384	2494.257 (MHz)	2509.066	2523.876

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2483.500	32.27	10.20	42.47	74.00	-31.53	peak	Р
2 *	2483.500	27.72	10.20	37.92	54.00	-16.08	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C		Relative Humidity	: 48%	
Гest Voltage:	DC 12V				MIL!
Ant. Pol.	Horizontal		1111		6
Test Mode:	3DH5 Mod	de TX 2402MH	lz	MILLION	
Remark:	N/A	a V			11111
120.0 dBuV/m					
110					
100					Λ
90					+
30			2.4G Restricted B	and-(Peak)	++
70					++
60			2.4G Restricted B	and-(AVG)	++
50				1	111
40				Ž	pea
30			and the second s		pea
20.0					
	2325.938	2345.938 (M	Hz) 2375.938		2405.938

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2390.000	35.00	9.98	44.98	74.00	-29.02	peak	Р
2 *	2390.000	28.08	9.98	38.06	54.00	-15.94	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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Temperature:	24.4°C		R	elative Hum	idity: 4	8%	
est Voltage:	DC 12V		637		1		W
Ant. Pol. Vertical							
est Mode:	3DH5 Mo	de TX 2402	MHz		CIII	N. W.	
Remark:	N/A	N/A					
120.0 dBuV/m							
110							
00							
00							
30						Λ	
				2.4G Restrict	ed Band-(Pe	ak)	
70							
50				2.4G Restrict	ed Band-(AV	G)	Н
50					1	++	Н
10					2		pea
30							-
20.0 2305.938	2325.938	2345.938	(MHz)	2375.93	38	240	5.938

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2390.000	33.20	9.98	43.18	74.00	-30.82	peak	Р
2 *	2390.000	27.52	9.98	37.50	54.00	-16.50	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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emperature:	24.4°C		Relative Hu	Relative Humidity: 48%			
est Voltage:	DC 12V						
nt. Pol.	Horizonta		A WILL				
est Mode:	3DH5 Mc	de TX 2480MI	Hz	CALLE .			
lemark:	N/A				an's		
20.0 dBuV/m							
10							
00							
90							
90			2.4G Res	stricted Band-(Pea	ak)		
70							
50			2 4G Res	stricted Band-(AVC	31		
50	1		2.70110	dicted balla (ATT			
10	1 X 2						
	**************************************			**************************************	pea		
30							
20.0 2474.511	2484.384	2494.257 (N	4Hz) 256	09.066	2523.876		

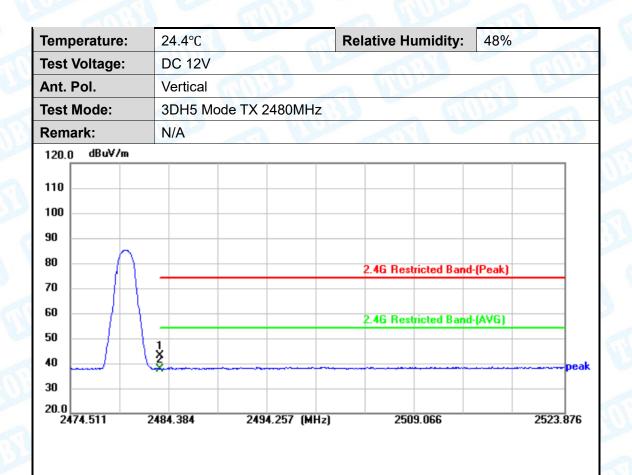
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F
1	2483.500	36.38	10.20	46.58	74.00	-27.42	peak	Р
2 *	2483.500	28.72	10.20	38.92	54.00	-15.08	AVG	Р

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)





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1	No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	2483.500	32.95	10.20	43.15	74.00	-30.85	peak	Р
2	2 *	2483.500	27.50	10.20	37.70	54.00	-16.30	AVG	Р

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)

----END OF THE REPORT-----

