

TEST REPORT

Radio Frequency Devices-Intentional Radiators

for

Products Name: Mini Blu-ray & CD Player

Model No.: Refer to section 2.2

FCC ID: 2BTMN-KB-100

Report No.: SST2605E034

Issued Date: 2026-5-7

Issued for

Krovatar Technology (Shenzhen) CO.,LTD

Room509, Building2, No.26 Puzai Road, Central Community, Pingdi, Longgang District, Shenzhen,
Guangdong, P.R.China

Issued by

DONGGUAN QIYANG TESTING TECHNOLOGY CO., LTD.

Room 101-1, Building 1, No. 19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

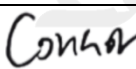
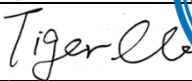
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1. Basic Introduction

Applicant's name :	Krovatar Technology (Shenzhen) CO.,LTD	
Address	Room509, Building2, No.26 Puzai Road, Central Community, Pingdi, Longgang District, Shenzhen, Guangdong, P.R.China	
Manufacturer's name	Krovatar Technology (Shenzhen) CO.,LTD	
Address	Room509, Building2, No.26 Puzai Road, Central Community, Pingdi, Longgang District, Shenzhen, Guangdong, P.R.China	
Factory's name	Shenzhen Maxmade Technology Co., Ltd.	
Address	6-8F, Building 2, No. 26 Puzai Road, Pingdi, Longgang District, Shenzhen, China	
Products Name :	Mini Blu-ray & CD Player	
Model No :	Refer to section 2.2	
Trade Mark	N/A	
Rating(s) :	Adapter information: Model: KA20A-US Input: AC 100-240V, 50/60Hz, 0.55A max Output: DC 5V/3A, 9V/2.22A, 12V/1.67A	
Date of sample receipt :	2025-12-22	
Date of Test :	2025-12-22~2026-5-6	
Standard(s)	FCC 47 CFR PART 15 Subpart C Section 15.247 ANSI C63.10-2020+COR 1-2023	
Tested by (+signature) :	Connor Ma	 
Check by (+signature) :	Davis Zhou	
Approved by (+signature) :	Tiger Chen	

2. General description

2.1. EUT description

Products Name	Mini Blu-ray & CD Player	
Model No.	Refer to section 2.2	
Rating(s)	Adapter information: Model: KA20A-US Input: AC 100-240V, 50/60Hz, 0.55A max Output: DC 5V/3A, 9V/2.22A, 12V/1.67A	
Software version.....	/	
Hardware version	/	
Operation frequency	2402MHz ~ 2480MHz	
Channel numbers	79	
Channel separation	1MHz	
Modulation technology	GFSK, pi/4 DQPSK, 8DPSK	
Antenna type	FPC Antenna	
Antenna gain	0.42 dBi (declared by applicant)	
EUT cable description	Name	Description
	Type C Line	☐ Shielded ☒ Unshielded ☒ Detachable ☐ Un-detachable ☐ No applicable ☒ Length: 1m

2.2. Serial model(s) and model difference

Main model(s)	KB-100 Series
Serial model(s)	KB-100B, KB-100W, KB-100G, KB-100S, KB-100L, KB-100R, KB-100BH, KB-100WH, KB-100GH, KB-100SH, KB-100LH, KB-100RH
Model difference	refer to difference declaration

2.3. Auxiliary equipment

Support equipment list			
Description	Manufacturer	Model No.	Serial No.
Notebook PC	HP	ZHAN 66P	
Support cable list			
Description	Specified length(m)	Shielded	Unshielded
/	/	/	/

2.4. Description of test modes

Prescan Operating Mode		
No.	Detailed description of the operating mode	Test voltage
1	continuously transmitting, with its lowest data rate which emit the max power level	AC 120V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

2.5. Test environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.

The climatic conditions during the tests were within the following limits:

Ambient temperature	Relative humidity	Atmospheric pressure
15 °C ~ 35 °C	30 % ~ 60 %	86 kPa ~ 106 kPa

If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.

2.6.Statement of Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conducted emissions	3.31 dB
Uncertainty for Radiated emission (9 kHz to 30 MHz)	3.1 dB
Uncertainty for Radiated emission (30 MHz to 1 GHz)	4.53 dB
Uncertainty for Radiated emission (above 1 GHz)	4.80 dB
RF power, conducted	1.08 dB
Power Spectral Density, Conducted	1.46 dB
Spurious Emissions, Conducted	2.94 dB
Occupied bandwidth	57.74 kHz
Dwell Time	2 %
Measurement Uncertainty Decision Rule Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.	

2.7.Report modification record

Report No.	Issue Date	Description
SST2605E034	2026-5-7	Original Report

2.8.Test Facility

The test facility is recognized, certified, or accredited by the following organizations:	
A2LA	Certificate No.:7057.01
FCC	Designation Number: CN1432
	Test Firm Registration Number: 640253
IC	Company Number: 30419
	CAB identifier: CN0154
CNAS	Registration No.: L17883
Location	Dongguan Qiyang Testing Technology Co., Ltd. Room 101-1, Building 1, No.19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

2.9. Other information

The laboratory responsible for all the information provided in the report, except those information provided by the applicant.

The applicant shall fully responsible for the information they provided.

The report would be invalid without a stamp of test laboratory and the signatures of compiler and approver.

The laboratory has not been responsible for the sampling stage; the test report merely corresponds to the test sample received.

Any objection to the test report shall submitted to the test laboratory within 15 days from the date of receipt of the report.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

2.10. Addition Instructions

Test Software	BlueTest 3.3.3
Power level setup	default

3. Verdict summary section

FCC 47 CFR PART 15 Subpart C		
Requirement – Test case	Basic standard	Verdict
Antenna Requirement	§15.203/§15.247 (b)(4)	Pass
AC Power Line Conducted Emission	§15.207	Pass
Conducted Peak Output Power	§15.247 (b)(1)	Pass
20dB Occupied Bandwidth	§15.247 (a)(1)	Pass
Carrier Frequencies Separation	§15.247 (a)(1)	Pass
Hopping Channel Number	§15.247 (a)(1)	Pass
Dwell Time	§15.247 (a)(1)	Pass
Radiated Emission	§15.205/§15.209	Pass
Conducted Spurious and Band Edge Emission	§15.247(d)	Pass

Test case verdicts	
- Test case does not apply to the test object	N/A
- Test object does meet the requirement	P (Pass)
- Test object does not meet the requirement	F (Fail)

4. List of Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Due	Cal. Due
Radiated Emission					
Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60B 044	2026/04/17	2027/04/10
Broadband Antenna	Schwarzbeck	VULB 9162	00556	2026/04/18	2027/04/10
Horn Antenna	Schwarzbeck	BBHA 9120 D	02783	2026/04/18	2027/04/10
Horn Antenna	Schwarzbeck	BBHA9170	01306	2026/04/18	2027/04/10
EMI Test Receiver	R&S	ESU8	100372	2026/04/16	2027/04/10
Spectrum Analyzer	R&S	FSV40-N	101791	2026/04/16	2027/04/10
Amplifier	Schwarzbeck	BBV 9744	00327	2026/04/16	2027/04/10
Amplifier	TSTPASS	LNA10180G45	TSAM2303003	2026/04/17	2027/04/13
Amplifier	RF system	TRLA-180400G45B	23060801	2026/04/17	2027/04/13
3m Anechoic Chamber	BOST	966	/	2027/01/06	2029/04/10
Test Software	Farad	EZ-EMC	3A1.1+	/	/
RF conducted					
Spectrum Analyzer	keysight	N9020A	MY51280659	2026/04/16	2027/04/09
Signal Generator	Agilent	N5181A	MY48180054	2026/04/16	2027/04/09
Signal Generator	keysight	N5172B	MY57281610	2026/04/16	2027/04/09
Spectrum Analyzer	R&S	FSV40-N	101791	2026/04/16	2027/04/09
Wideband Radio Communication Tester	R&S	CMW500	123123	2026/04/16	2027/04/09
RF Switch Box	TST PASS	TST V2	/	2026/04/16	2027/04/09
Test Software	TST PASS	TST PASS	V2.0	/	/
Temperature and humidity chamber	Guangdong fenghe	FH-TH-1000	FH24032017	2026/04/26	2027/04/09

Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Due	Cal. Due
Mains terminal disturbance voltage					
EMI Test Receiver	R&S	ESR3	103057	2026/04/16	2027/04/09
LISN	R&S	ENV 216	102832	2026/04/16	2027/04/09
Test Software	Farad	EZ-EMC	3A1.6	/	/

5. Technical Requirement and Measurement Data

5.1. Generally requirement

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 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.

EUT Antenna:

The EUT using a FPC antenna, Reference to the appendix II for details

5.2. Connected emissions

5.2.1. Limits

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

5.2.2. Test method

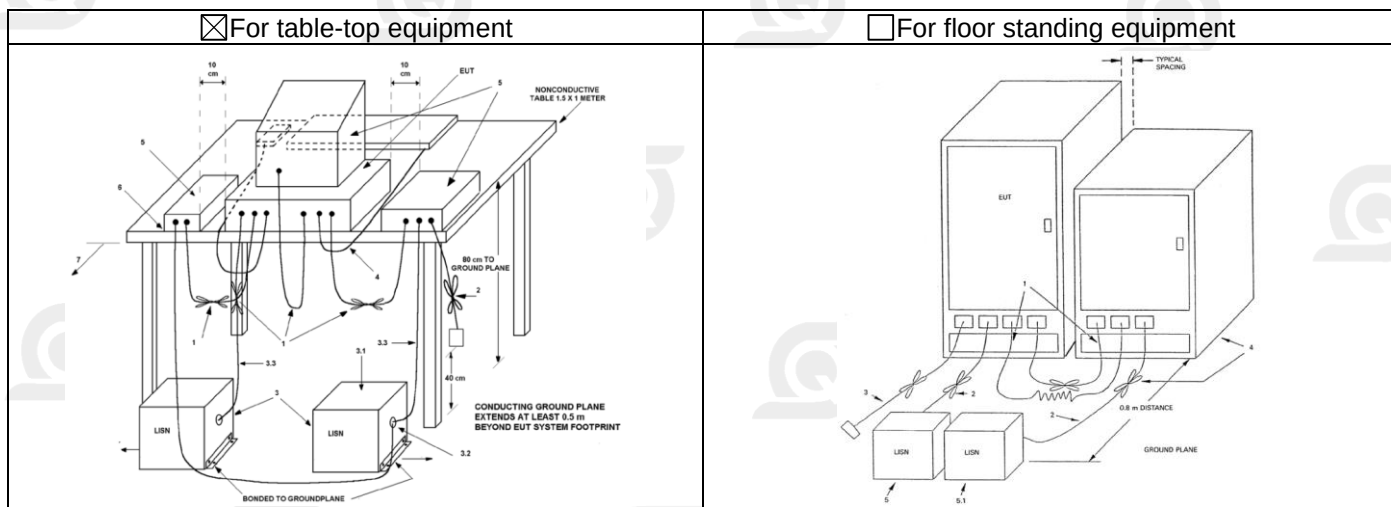
The measurement was performed in a shield room.

Measured levels of ac power-line conducted emission shall be the radio-noise voltage from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), as terminated into a 50 Ω EMI receiver or spectrum analyzer. All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN, if used. The manufacturer shall test equipment with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended. For measurements using a LISN, the 50 Ω measuring port is terminated into a 50 Ω EMI receiver or spectrum analyzer. All other ports are terminated into 50 Ω loads.

Table top devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

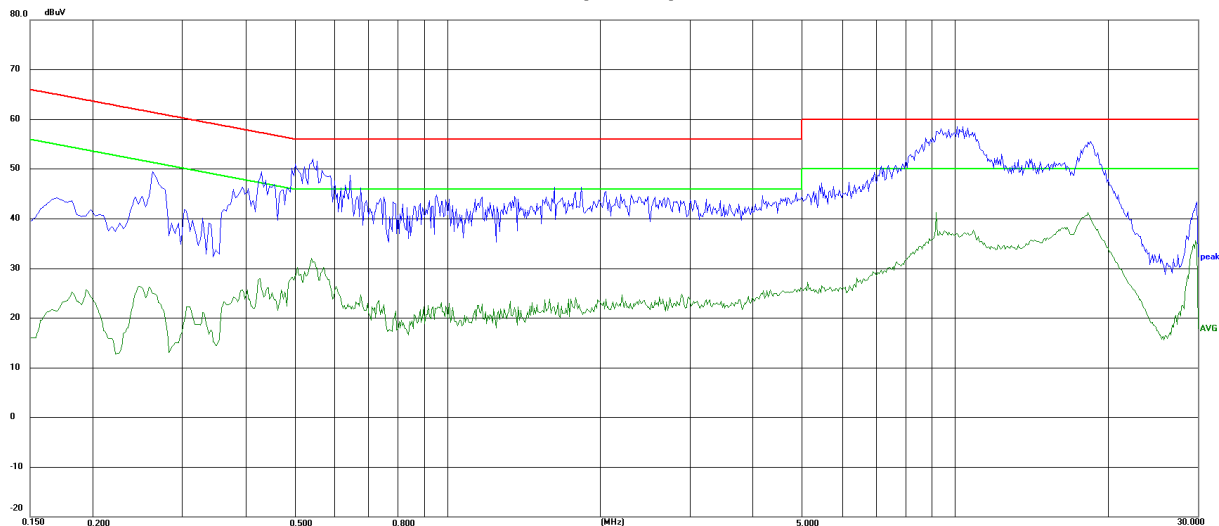
5.2.3. Block diagram of test setup



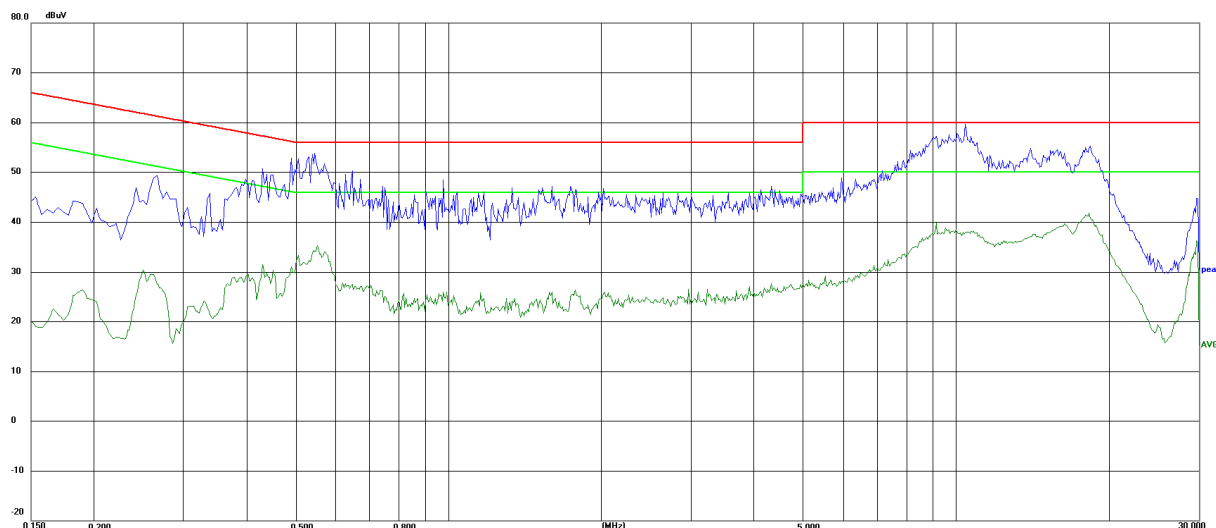
5.2.4. Test information

Ambient temperature:	26.4 °C
Relative humidity:	39 %
EUT operation mode:	Mode 1
Test Voltage:	AC 120V/60Hz
Test results:	Pass
Remark:	Correct Factor Value = Attenuator Factor + Cable Loss + LISN Factor Measurement Value = Reading Level Value + Correct Factor Value Over Value = Measurement Value - Limit Value Only the worst case report (8DPSK, 2441MHz)

Measurement data and Graphical presentation of the result



No.	Frequency (MHz)	QP Value (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Value (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)	Result	Line
1	0.542	52.09	56.00	-3.91	32.02	46.00	-13.98	Pass	Line 1
2	9.354	58.14	60.00	-1.86	41.20	50.00	-8.80	Pass	Line 1
3	9.710	57.94	60.00	-2.06	37.64	50.00	-12.36	Pass	Line 1
4	10.090	58.49	60.00	-1.51	37.04	50.00	-12.96	Pass	Line 1
5	10.450	58.54	60.00	-1.46	37.20	50.00	-12.80	Pass	Line 1
6	10.862	58.23	60.00	-1.77	37.79	50.00	-12.21	Pass	Line 1



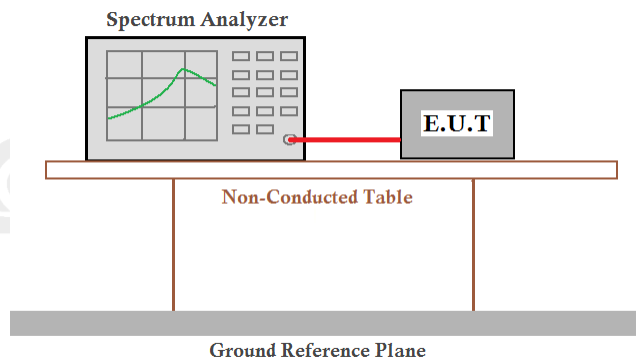
No.	Frequency (MHz)	QP Value (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Value (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)	Result	Line
1	0.506	52.70	56.00	-3.30	33.40	46.00	-12.60	Pass	Neutral
2	0.550	53.90	56.00	-2.10	35.30	46.00	-10.70	Pass	Neutral
3	9.134	57.33	60.00	-2.67	39.80	50.00	-10.20	Pass	Neutral
4	9.654	57.50	60.00	-2.50	38.78	50.00	-11.22	Pass	Neutral
5	10.058	57.85	60.00	-2.15	38.37	50.00	-11.63	Pass	Neutral
6	10.710	59.61	60.00	-0.39	38.11	50.00	-11.89	Pass	Neutral

5.3. Conducted Peak Output Power and EIRP

Limit

Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

Block diagram of Test Setup



Test Instrument

Refer to section 4 for details

Test Procedures

Use the following spectrum analyzer settings:
 Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
 RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW
 Sweep = auto
 Detector function = peak
 Trace = max hold
 Allow the trace to stabilize.
 Use the marker-to-peak function to set the marker to the peak of the emission.

Verdict

Pass

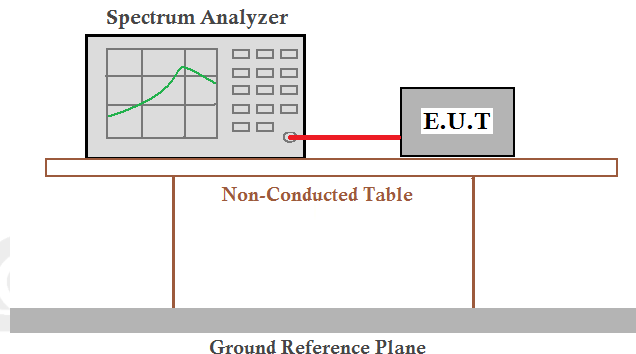
Measurement Data: The detailed test data see Appendix

5.4. Occupied Channel Bandwidth

Limit

Report only

Block diagram of Test Setup



Test Instrument

Refer to section 4 for details

Test Procedures

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
 Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; $1\% \leq RBW \leq 5\%$ of the 20 dB bandwidth; $VBW \geq 3RBW$;
 Sweep = auto; Detector function = peak; Trace = max hold.
4. Measure and record the results in the test report.

Verdict

Pass

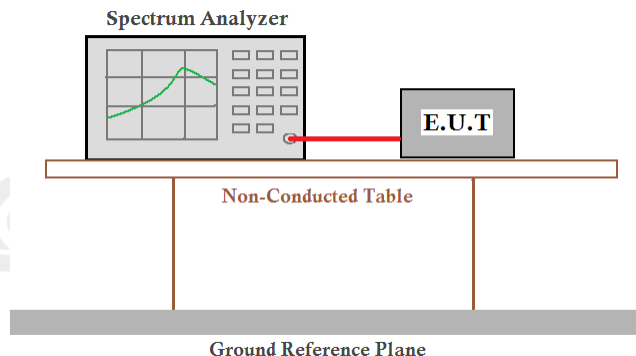
Measurement Data: The detailed test data see Appendix

5.5. Carrier Frequency Separation

Limit

FHS operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W

Block diagram of Test Setup



Test Instrument

Refer to section 4 for details

Test Procedures

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

- Span: Wide enough to capture the peaks of two adjacent channels.
- 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.
- Video (or average) bandwidth (VBW) $\geq$ RBW.
- Sweep: No faster than coupled (auto) time.
- Detector function: Peak.
- Trace: Max-hold.
- Allow the trace to stabilize.

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

Verdict

Pass

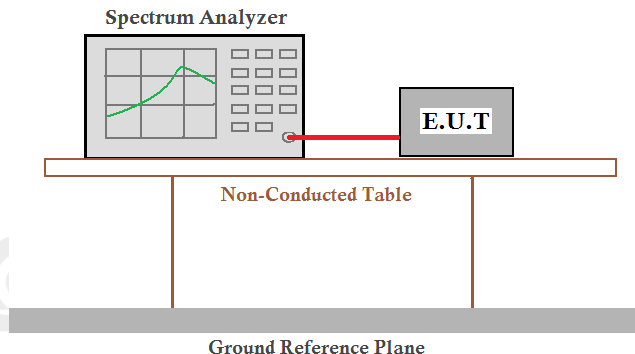
Measurement Data: The detailed test data see Appendix

5.6. Hopping Channel Numbers

Limit

FHS operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

Block diagram of Test Setup



Test Instrument

Refer to section 4 for details

Test Procedures

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

- Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 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.
- VBW $\geq$ RBW.
- Sweep: No faster than coupled (auto) time.
- Detector function: Peak.
- Trace: Max-hold.
- Allow the trace to stabilize.

Verdict

Pass

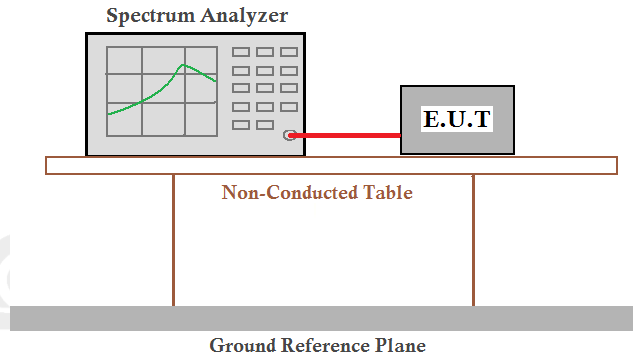
Measurement Data: The detailed test data see Appendix

5.7. Dwell Time

Limit

0.4s

Block diagram of Test Setup



Test Instrument

Refer to section 4 for details

Test Procedures

Use the following spectrum analyzer settings to determine the dwell time per hop:

- Span: Zero span, centered on a hopping channel.
- RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected transmission time per hop.
- Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- Detector function: Peak.
- Trace: Clear-write, single sweep.
- Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

Verdict

Pass

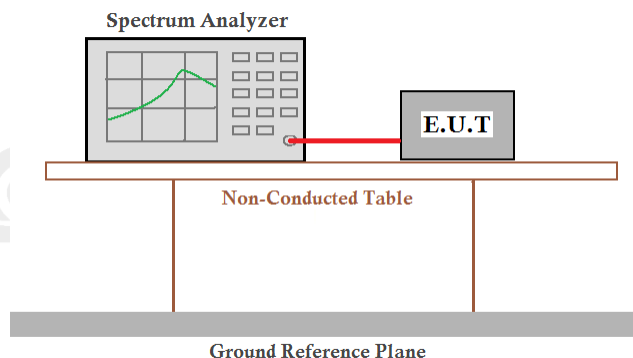
Measurement Data: The detailed test data see Appendix

5.8. Conducted Spurious Emission

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.

Block diagram of Test Setup



Test Instrument

Refer to section 4 for details

Test Procedures

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
 2. Set to the maximum power setting and enable the EUT transmit continuously.
 3. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
 4. Measure and record the results in the test report.
 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- Note: The conducted spurious emissions test has compensated for the maximum line loss measurement, and the recorded data represents the worst-case scenario.

Verdict

Pass

Measurement Data: The detailed test data see Appendix

5.9. Radiated emissions

5.9.1. Limits

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength ($\mu\text{V/m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

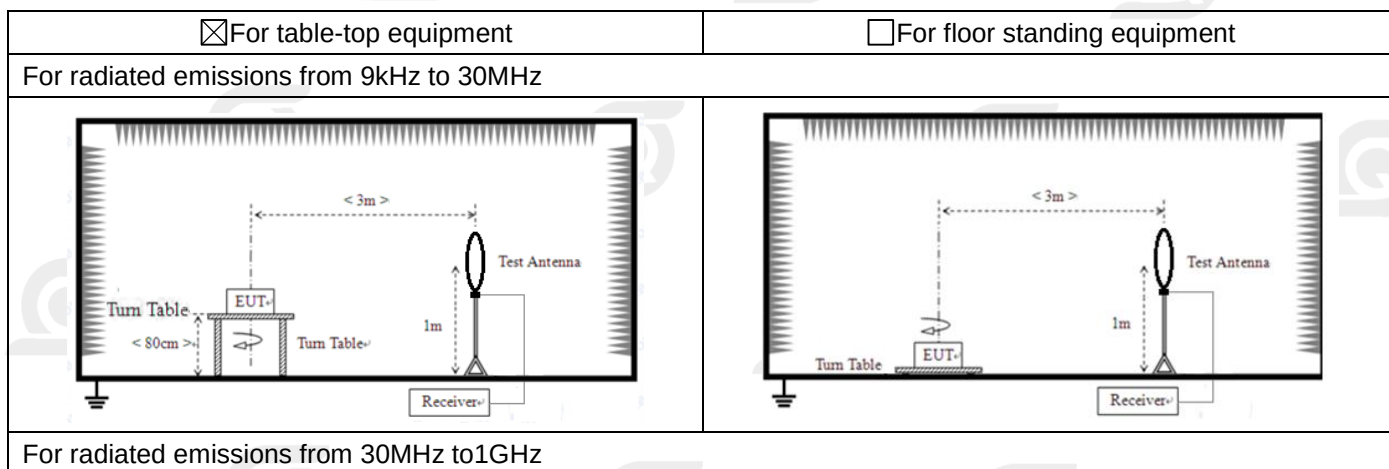
Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	$6.37/F$ (F in kHz)	300
490 - 1705 kHz	$63.7/F$ (F in kHz)	30
1.705 - 30 MHz	0.08	30

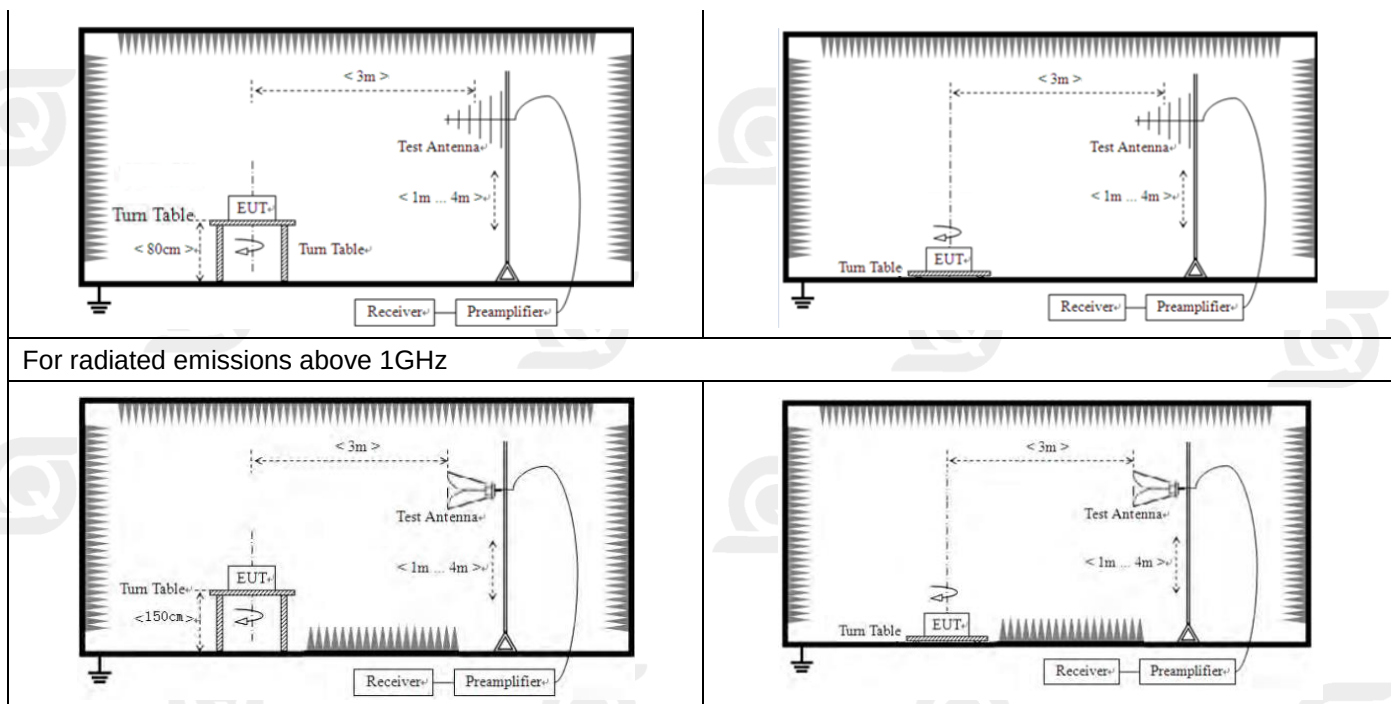
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

5.9.2. Test method

Measurements were made in semi-anechoic chamber or Open Area Test Site that complies to CISPR 16. Preliminary (peak) measurements. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (quasi-peak detector below 1 GHz and average detector above 1 GHz) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.

5.9.3. Block diagram of test setup





5.9.4. Test information

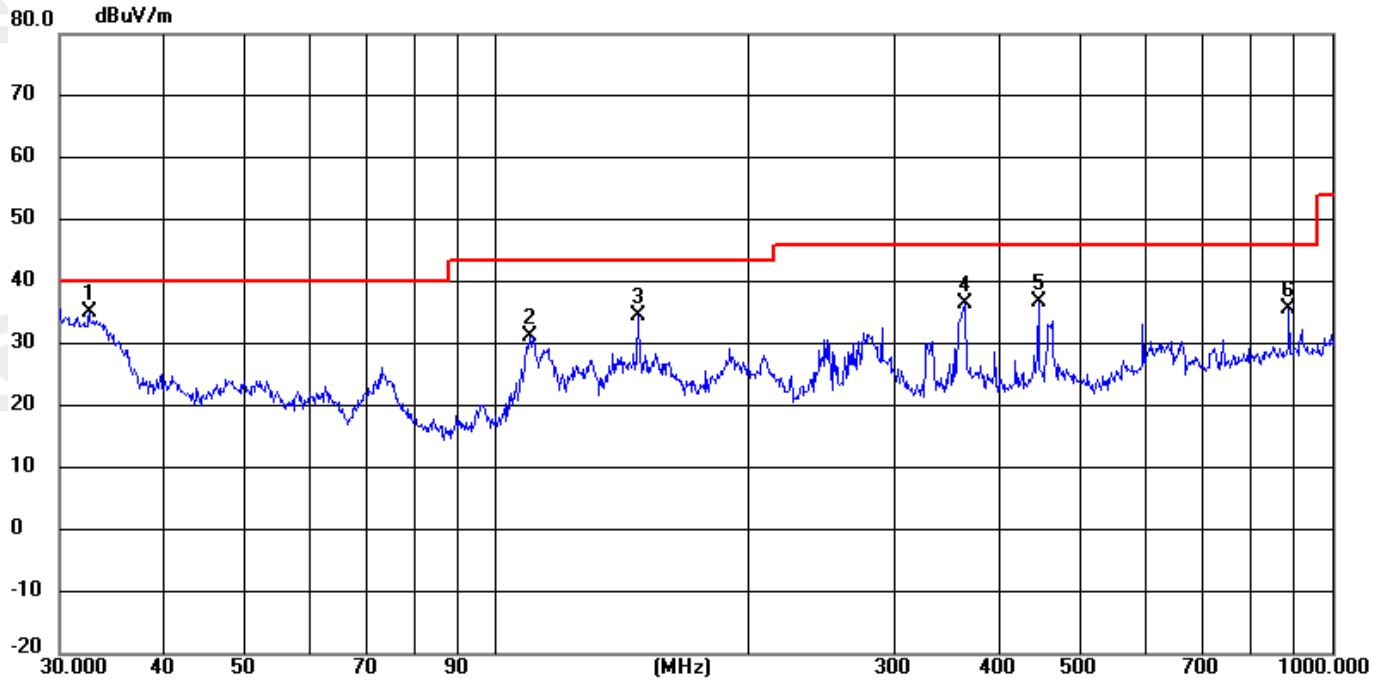
Ambient temperature:	24.8 °C
Relative humidity:	41 %
EUT operation mode:	Mode 1
Test results:	Pass
Remark:	Factor Value = Antenna Factor + Cable Loss - Preamplifier Factor Level Value = Reading Value + Factor Value Margin Value = Level Value - Limit Value

Note: The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to RSS-Gen 6.13, the test result no need to reported.

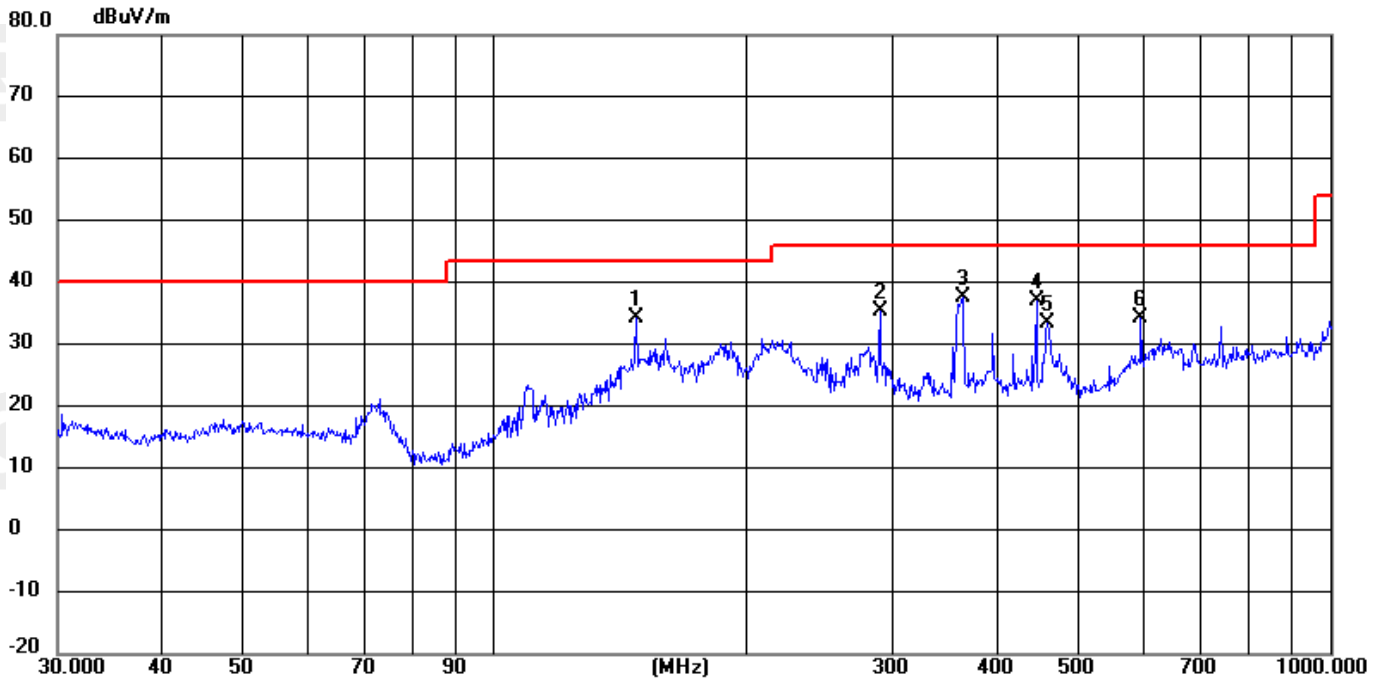
For emissions from 18GHz to 25GHz were cabinet noise, which more than 20db below the spurious emission limit, so not report

Measurement data and Graphical presentation of the result

Only worst data report (8DPSK, 2441MHz)



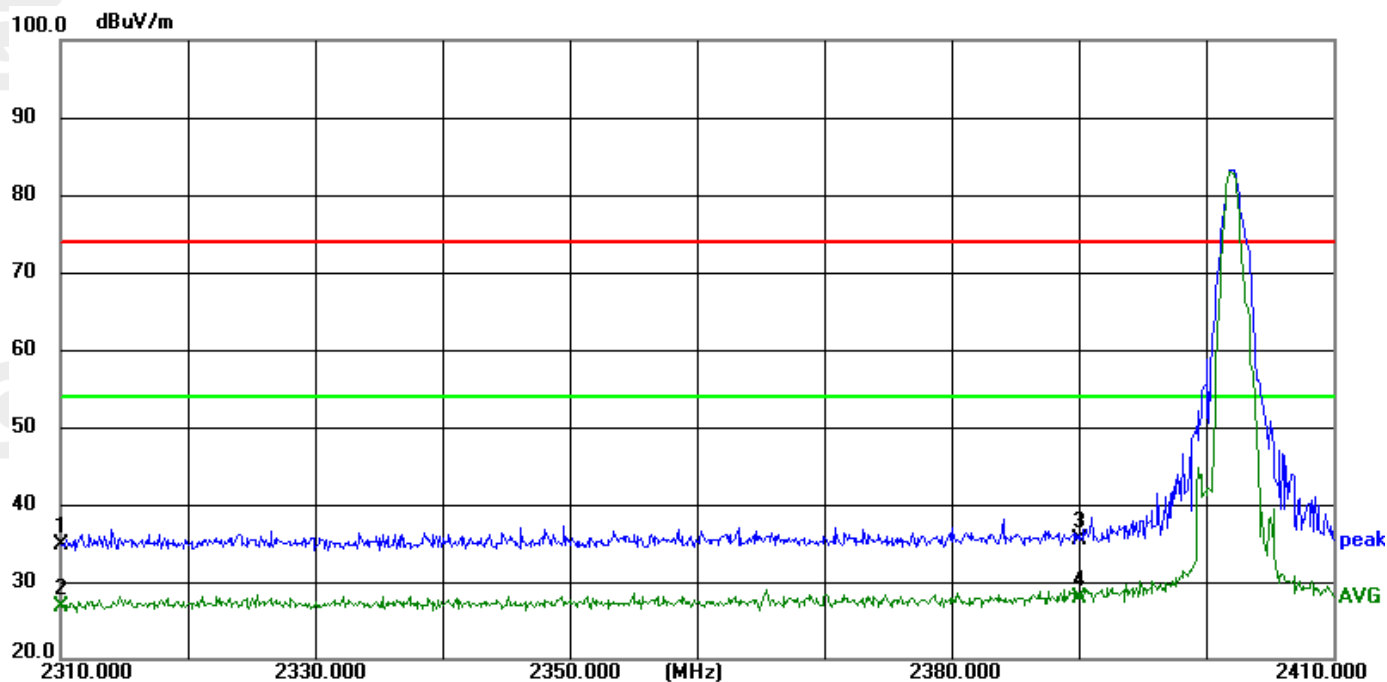
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1 *	32.534	23.68	11.38	35.06	40.00	-4.94	QP	Vertical
2	109.507	18.71	12.50	31.21	43.50	-12.29	QP	Vertical
3	148.376	25.91	8.77	34.68	43.50	-8.82	QP	Vertical
4	363.303	20.69	15.76	36.45	46.00	-9.55	QP	Vertical
5	445.241	19.26	17.60	36.86	46.00	-9.14	QP	Vertical
6	890.337	10.72	25.10	35.82	46.00	-10.18	QP	Vertical



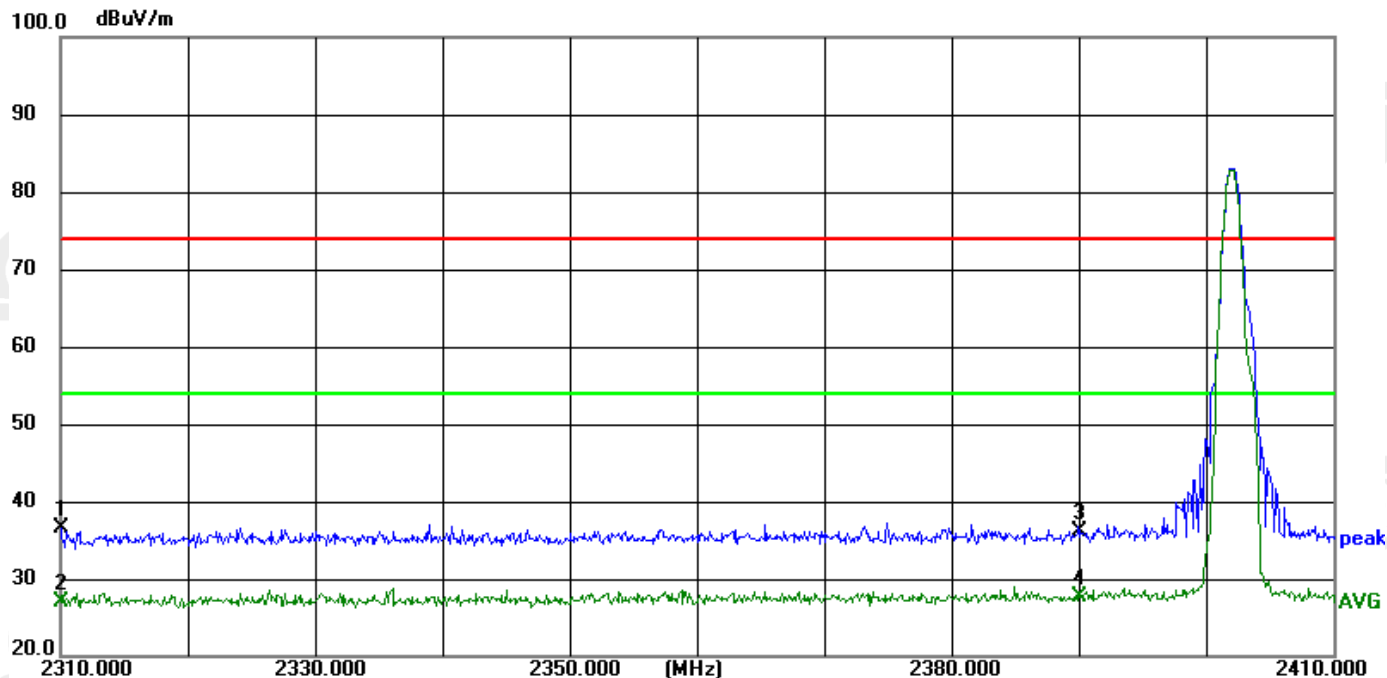
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	148.376	25.43	8.77	34.20	43.50	-9.30	QP	Horizontal
2	289.382	21.54	13.80	35.34	46.00	-10.66	QP	Horizontal
3 *	363.303	21.97	15.76	37.73	46.00	-8.27	QP	Horizontal
4	445.241	19.38	17.60	36.98	46.00	-9.02	QP	Horizontal
5	459.719	15.47	18.11	33.58	46.00	-12.42	QP	Horizontal
6	593.570	13.70	20.52	34.22	46.00	-11.78	QP	Horizontal

Restricted Bands(only worst data report):

Lowest channel:

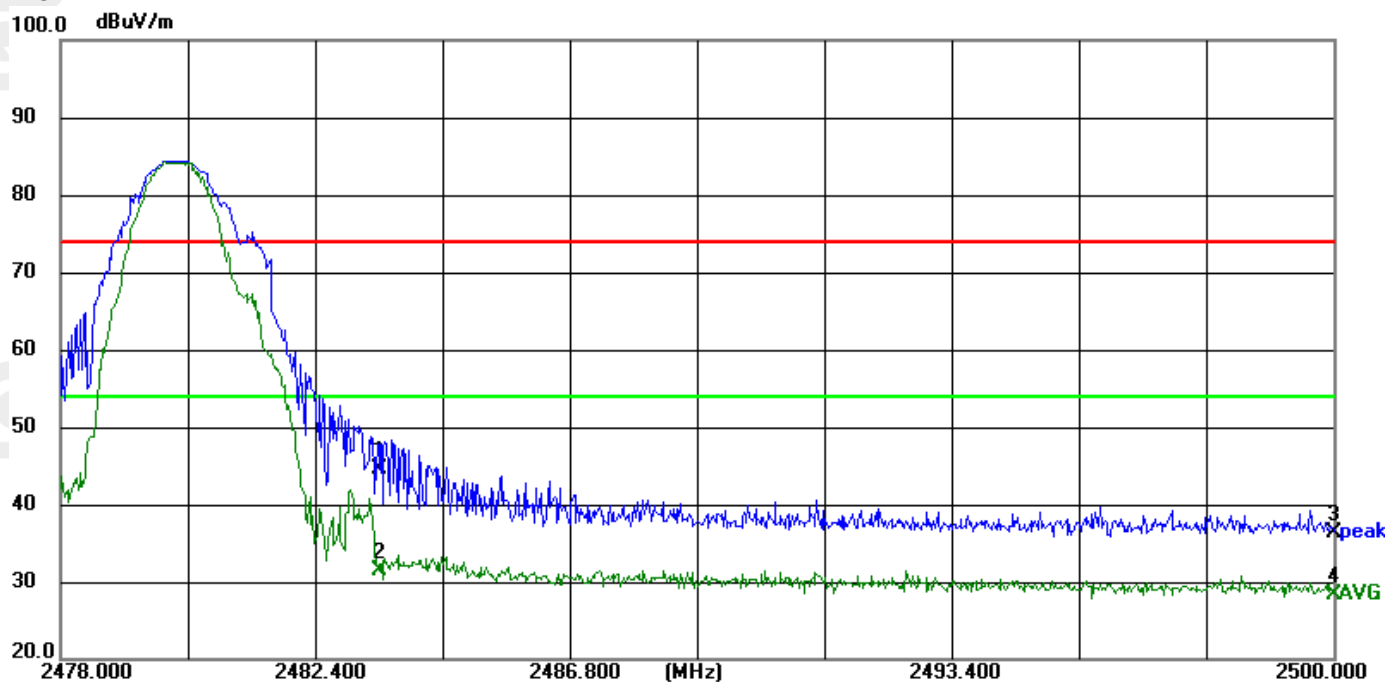


No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	2310.000	56.38	-21.61	34.77	74.00	-39.23	peak	Horizontal
2	2310.000	48.35	-21.61	26.74	54.00	-27.26	AVG	Horizontal
3	2390.000	56.61	-21.18	35.43	74.00	-38.57	peak	Horizontal
4 *	2390.000	49.03	-21.18	27.85	54.00	-26.15	AVG	Horizontal

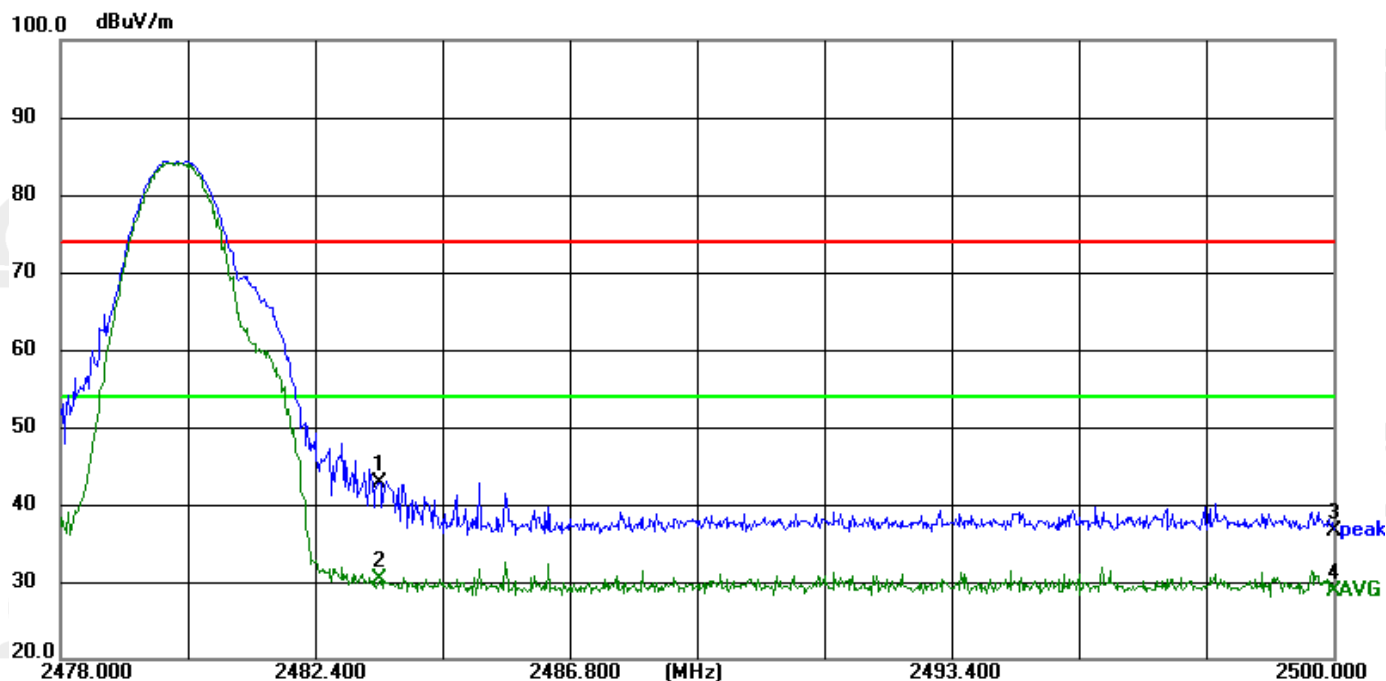


No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	2310.000	58.17	-21.61	36.56	74.00	-37.44	peak	Vertical
2	2310.000	48.53	-21.61	26.92	54.00	-27.08	AVG	Vertical
3	2390.000	57.21	-21.18	36.03	74.00	-37.97	peak	Vertical
4 *	2390.000	48.88	-21.18	27.70	54.00	-26.30	AVG	Vertical

Highest channel:



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	2483.500	65.14	-20.68	44.46	74.00	-29.54	peak	Horizontal
2 *	2483.500	52.14	-20.68	31.46	54.00	-22.54	AVG	Horizontal
3	2500.000	56.94	-20.60	36.34	74.00	-37.66	peak	Horizontal
4	2500.000	48.94	-20.60	28.34	54.00	-25.66	AVG	Horizontal



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	2483.500	63.39	-20.68	42.71	74.00	-31.29	peak	Vertical
2 *	2483.500	51.11	-20.68	30.43	54.00	-23.57	AVG	Vertical
3	2500.000	57.23	-20.60	36.63	74.00	-37.37	peak	Vertical
4	2500.000	49.40	-20.60	28.80	54.00	-25.20	AVG	Vertical

Spurious Emissions:
Test Result

Test mode	Mode 1	Test channel	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804	54.15	33.35	7.7	53.72	41.48	74.00	-32.52	Vertical
7206	51.48	36.54	9.55	53.24	44.33	74.00	-29.67	Vertical
9608	54.07	39.04	11.29	53.28	51.12	74.00	-22.88	Vertical
4804	54.60	33.35	7.7	53.72	41.93	74.00	-32.07	Horizontal
7206	53.62	36.54	9.55	53.24	46.47	74.00	-27.53	Horizontal
9608	55.08	39.04	11.29	53.28	52.13	74.00	-21.87	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804	47.45	33.35	7.7	53.72	34.78	54.00	-19.22	Vertical
7206	43.75	36.54	9.55	53.24	36.60	54.00	-17.40	Vertical
9608	47.96	39.04	11.29	53.28	45.01	54.00	-8.99	Vertical
4804	46.21	33.35	7.7	53.72	33.54	54.00	-20.46	Horizontal
7206	47.56	36.54	9.55	53.24	40.41	54.00	-13.59	Horizontal
9608	45.30	39.04	11.29	53.28	42.35	54.00	-11.65	Horizontal

Note: Final Level = Receiver Read level + Factor

Factor = Antenna Factor + Cable Loss – Preamplifier Factor

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

Only the worst case report(8DPSK)

Test Result

Test mode	Mode 1	Test channel	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882	52.13	33.57	7.77	53.71	39.76	74.00	-34.24	Vertical
7323	53.76	36.56	9.64	53.26	46.70	74.00	-27.30	Vertical
9764	54.09	39.11	11.39	53.25	51.34	74.00	-22.66	Vertical
4882	55.77	33.57	7.77	53.71	43.40	74.00	-30.60	Horizontal
7323	51.18	36.56	9.64	53.26	44.12	74.00	-29.88	Horizontal
9764	53.08	39.11	11.39	53.25	50.33	74.00	-23.67	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882	43.78	33.57	7.77	53.71	31.41	54.00	-22.59	Vertical
7323	44.84	36.56	9.64	53.26	37.78	54.00	-16.22	Vertical
9764	42.69	39.11	11.39	53.25	39.94	54.00	-14.06	Vertical
4882	46.61	33.57	7.77	53.71	34.24	54.00	-19.76	Horizontal
7323	44.81	36.56	9.64	53.26	37.75	54.00	-16.25	Horizontal
9764	45.14	39.11	11.39	53.25	42.39	54.00	-11.61	Horizontal

Note: Final Level = Receiver Read level + Factor

Factor = Antenna Factor + Cable Loss – Preamplifier Factor

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

Only the worst case report(8DPSK)

Test Result

Test mode	Mode 1	Test channel	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960	51.02	33.79	7.83	53.7	38.94	74.00	-35.06	Vertical
7440	51.16	36.59	9.72	53.29	44.18	74.00	-29.82	Vertical
9920	52.99	39.17	11.48	53.22	50.42	74.00	-23.58	Vertical
4960	55.52	33.79	7.83	53.7	43.44	74.00	-30.56	Horizontal
7440	51.71	36.59	9.72	53.29	44.73	74.00	-29.27	Horizontal
9920	52.90	39.17	11.48	53.22	50.33	74.00	-23.67	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960	45.09	33.79	7.83	53.7	33.01	54.00	-20.99	Vertical
7440	44.38	36.59	9.72	53.29	37.40	54.00	-16.60	Vertical
9920	47.29	39.17	11.48	53.22	44.72	54.00	-9.28	Vertical
4960	47.27	33.79	7.83	53.7	35.19	54.00	-18.81	Horizontal
7440	44.83	36.59	9.72	53.29	37.85	54.00	-16.15	Horizontal
9920	47.35	39.17	11.48	53.22	44.78	54.00	-9.22	Horizontal

Note: Final Level = Receiver Read level + Factor

Factor = Antenna Factor + Cable Loss – Preamplifier Factor

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

Only the worst case report(8DPSK)

6. Test setup photo

Refer to appendix I for details

7. Photo of the EUT

Refer to appendix II for details

*****End of report*****