



FCC Part 15C&RSS-247 TEST REPORT

FCC ID: 2BBSG-RKNT1R001

IC: 30816-RKNT1R001

Prepared for : REEKON Tools, Inc.
Address : 50 Terminal St. BLDG 2 STE 611, Charlestown,
MA 02129 USA

Trade Name : REEKON
E.U.T : T1R Range Hybrid Measuring Tool
Model Number : RKN-T1R-16-001
Series Model : RKN-T1R-16-002, RKN-T1R-16-003

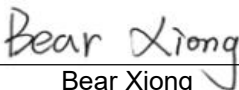
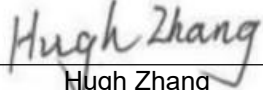
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Report No. : 2026071019588563-00
Date of Test: : Jun. 12 ~ Jul. 12, 2026
Date of Report : Jul. 13, 2026



Keyway Testing Technology (Guangdong) Co., Ltd.

Applicant:	REEKON Tools, Inc.	
Address:	50 Terminal St. BLDG 2 STE 611, Charlestown, MA 02129 USA	
Manufacturer:	Huizhou Zhengcheng Audio Co., Ltd	
Address:	Intercontinental Industrial Park, Luoyang Street, Boluo County, Huizhou City	
Trade Name:	REEKON	
E.U.T:	T1R Range Hybrid Measuring Tool	
Model Number:	RKN-T1R-16-001	
Series Model:	RKN-T1R-16-002, RKN-T1R-16-003	
Date of Receipt:	Jun. 11, 2026	
Date of Test:	Jun. 12 ~ Jul. 12, 2026	
Test Specification :	FCC CFR47 Part 15 Section 15.247 RSS-247 Issue 4: July 24, 2025 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 RSS-GEN Issue5, Amendment 2, February,2021	
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.	
		Issue Date: Jul. 13, 2026
Tested by:	Reviewed by:	Authorized by:
		
Bear Xiong	Hugh Zhang	Cherry Chen
<i>Abbreviations: OK/P=passed fail/F=failed N/A=not applicable E.U.T=equipment under tested</i>		
<i>This device described above has been tested by Keyway, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of Keyway, this document may be altered or revised by Keyway, personal only, and shall be noted in the revision of the document.</i>		



Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2026.07.13		Original



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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207 RSS-Gen 8.8	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d) RSS-Gen 8.9 RSS-Gen 8.10	PASS
Conducted Spurious Emission	15.247(d) RSS-247 5.5	PASS
Band edge	15.247(d) 15.205(a) RSS-247 5.5	PASS
6dB Bandwidth & 99% OCB	15.247(a)(2) RSS-247 [5.2(a)] RSS-GEN 6.7	PASS
Maximum Peak Output Power & E.I.R.P	15.247(b)(3) RSS-247.5.4(b)	PASS
Power Spectral Density	15.247(e) RSS-247 [5.2(b)]	PASS
Antenna Requirement	FCC part 15.203/15.247 (c) RSS-Gen 6.8	PASS

Remark:

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



2.1 Test Site

Lab Qualifications	: Certificated by CMA Registration No.: 202319016955 Date of registration: July 23, 2024 Certificated by CNAS Registration No.: CNAS L5783 Date of registration: March 07, 2025 Certificated by A2LA Certificate Number:7404.01 Valid To: March 31, 2027 FCC Designation No.: CN1412 Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 33959) The test lab Conformity Assessment Body Identifier (CABID) is CN0186 Certificated by VCCI Member No.3498 R-20091:966 Chamber 2 Below 1 G G-20227:966 Chamber 2 above 1 G C-20064:Conducted Emissions at Mains ports T-20120:Conducted Emissions at Wired network port Date of Valid until: Sept. 19, 2027 Certificated by Nemko Registration No.: ELA 814 Date of registration: September 25, 2024 Certificated by UL Registration No.: 100567237 Date of registration: September 25, 2024
Name of Firm	: Keyway Testing Technology(Guangdong) Co., Ltd.
Site Location	: Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan, 523710, People's Republic of China



3 General Information

3.1 General Description of E.U.T.

Product Name	:	T1R Range Hybrid Measuring Tool
Model Name	:	RKN-T1R-16-001
Additional model	:	RKN-T1R-16-002, RKN-T1R-16-003
Model difference	:	There are 3x Total SKUs - 3 models of Tape Blade (English, Metric, Split), RKN-T1R-16-001 - T1R Range Hybrid Measuring Tool - 16 ft - English, RKN-T1R-16-002 - T1R Range Hybrid Measuring Tool - 16 ft - Metric, RKN-T1R-16-003 - T1R Range Hybrid Measuring Tool - 16 ft - Split, Within each set of models, only the Tape Blade changes.
Sample ID	:	33000276579
Sample(s) Status:	:	Normal sample, Engineer sample
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	40 channels
Antenna Type	:	PCB Antenna
Antenna Gain	:	-1.44 dBi
Type of Modulation	:	GFSK
Power supply	:	5-9VDC, Up to 3A (USB-C input range), Internal 3.85Vnom (4.35Vmax) by Li-Po Battery
Battery information:	:	Misen 853035, LI-ion battery pack 3.85V 3450mAh 13.29wh
Hardware Version	:	REV 0 1
Software Version	:	0.0.11
Remark: the Antenna gain is provided by customer from Antenna spec. and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.		



3.2 Channel List

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting. Only the worst case data were reported.

The EUT has been associated with peripherals pursuant to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The details of test channels and bandwidth were for RF conductive measurement.

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

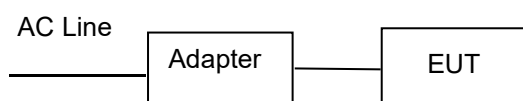
Note:

1. Test of channel was included the lowest, middle and highest frequency in highest data rate and to perform the test, then record on this report.

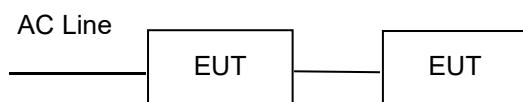
hannel	Frequency(MHz)
0	2402
19	2440
39	2480

3.3 Test Setup Configuration

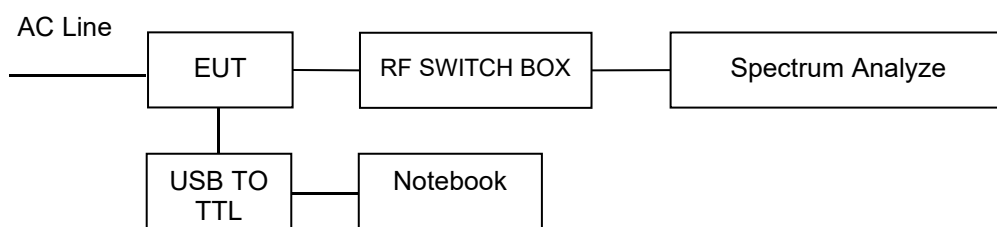
AC Power Line Conducted Emission



Radiated Emission



RF Conducted Test



3.4 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. For battery operated equipment, the equipment tests shall be performed using a new battery. So the report just shows that condition's data.	

Test Software	nRF Connect for Desktop V5.1.0
Power level setup	8dBm



4 Equipment During Test

4.1 Equipments List

Equipment	Manufacturer	Model No.	Serial No.	Date of Cal.	Valid until
For conducted emission at the mains terminals and signal port test 944 Shielded Room					
Test Software	FARAD	EZ-EMC Ver.FARAD-3A1+	KWET-089	/	/
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr 14, 26	Apr 13, 27
ArtificialMains Network	Rohde&Schwarz	ENV216	101314	Mar 05, 26	Mar 04, 27
RF Cable	FUJIKURA	3D-2W	KWET-030	Apr 14, 26	Apr 13, 27
Socket	Gongniu	KWET-003A1	KWET-003A1	Feb 21, 26	Feb 20, 27
For radiated emission test (30MHz-1GHz)966 Chamber 2					
Test Software	FARAD	EZ-EMC Ver.FARAD-3A1+	KWET-087	/	/
EMI Test Receiver	Rohde&Schwarz	ESCI	101178	Apr 14, 26	Apr 13, 27
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00829	May 10, 26	May 09, 27
3m Semi-anechoic Chamber	YIHENDIANZI	966	YH-KW-966-02	Mar 07, 26	Mar 06, 27
RF Cable	EMC Instruments	EMCCFD400-NM-NM-2000	240307	Apr 14, 26	Apr 13, 27
RF Cable	EMC Instruments	EMCCFD400-NM-NM-9000	240309	Apr 14, 26	Apr 13, 27
For radiated emission test (Above 1GHz)966 Chamber 2					
Test Software	FARAD	EZ-EMC Ver.FARAD-3A1+	KWET-087	/	/
EMI Test Receiver	Rohde&Schwarz	ESCI	101178	Apr 14, 26	Apr 13, 27
Spectrum Analyzer	Agilent	N9020A	MY56070279	Apr 14, 26	Apr 13, 27



Spectrum analyzer	R&S	FSV 40	101059	Nov 06, 26	Nov 05, 27
Horn Antenna	DAZE	ZN30701	11003	Apr 19, 26	Apr 18, 27
Low-frequency amplifier	SONOMA	310	KWET-010	Apr 12, 26	Apr 11, 27
Signal Amplifier	WCS Technology	DLNA-1000-18000	KWET-009	Apr 15, 26	Apr 14, 27
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1368	May 16, 26	May 15, 27
Signal Amplifier	WCS Technology	DLNA-18000-40000	KWET-138	Apr 19, 26	Apr 18, 27
3m anechoic Chamber	YIHENDIANZI	966	YH-KW-966-02	Mar 07, 26	Mar 06, 27
RF Cable(1G-18GHz)	EMC Instruments	EMC105-SM-SM-1000	240301	Apr 14, 26	Apr 13, 27
RF Cable(1G-18GHz)	EMC Instruments	EMC105-SM-SM-2000	240302	Apr 14, 26	Apr 13, 27
RF Cable(1G-18GHz)	EMC Instruments	EMC105-SM-SM-9000	240303	Apr 14, 26	Apr 13, 27
RF Cable(18G-40GHz)	WCS Technology	CA360P-29M29M-1M	W2415130001	Apr 14, 26	Apr 13, 27
RF Cable(18G-40GHz)	WCS Technology	CA360P-29M29M-9M	W2415110001	Apr 14, 26	Apr 13, 27
High Pass Filter 3GHz	Micro-Ironics	HPM17544	KWET-179	May 15, 26	May 14, 27
For conducted emission test (RF)					
MXG Signal Analyzer	Agilent	N9020A	MY56070279	Apr 14, 26	Apr 13, 27
RF SWITCH BOX	CSKJ	SMU-1003	KWET-047	Apr 14, 26	Apr 13, 27
Attenuator	R&S	ESH3-Z2	102696	Apr 14, 26	Apr 13, 27
Power meter	YOKOKAWA	WY210	27D528405	Apr 14, 26	Apr 13, 27
RF sma cable	Keysight	MIL-C-17F	0332	Apr 14, 26	Apr 13, 27
RF sma cable	Keysight	MIL-C-17F	0330	Apr 14, 26	Apr 13, 27
RF sma cable	Keysight	MIL-C-17F	0331	Apr 14, 26	Apr 13, 27
RF sma cable	Keysight	MIL-C-17F	0329	Apr 14, 26	Apr 13, 27
Coupler	Keysight	ZHDC-10-63-S+	SF331801603	Apr 15, 26	Apr 14, 27
Test Software	CSKJ	CS-305X	KWET-149	/	/

4.2 Measurement Uncertainty

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

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Duty Cycle	$\pm 2\%$
Spurious emissions, conducted	$\pm 0.21\text{dB}$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9KHz~30MHz)	$\pm 4.51\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$
Radiated Emission(25GHz~40GHz)	$\pm 3.38\text{dB}$

4.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	T1R Range Hybrid Measuring Tool	REEKON	RKN-T1R-16-001	N/A	EUT
E-2	Notebook	lenovo	B40-80	MP07F6JD	Auxiliary
E-3	USB TO TTL	MH	USB to TTL	N/A	Auxiliary

Note:

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

5 Conducted Emission

Test Requirement	:	FCC CFR 47 Part 15 Section 15.207&RSS-Gen 8.8
Test Method	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and RSS-Gen
Test Result	:	PASS
Frequency Range	:	150kHz to 30MHz
Class/Severity	:	Class B

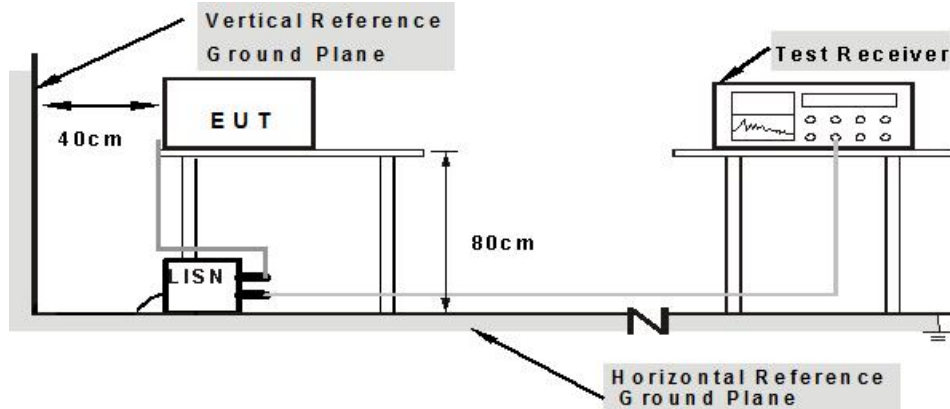
5.1 E.U.T. Operation

Operating Environment :

Temperature:	:	23.5°C
Humidity:	:	54 % RH
Atmospheric Pressure:	:	101.12 kPa
Test Voltage	:	AC 120V/60Hz

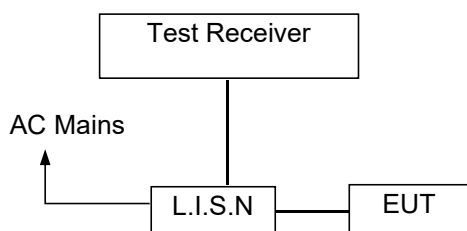
5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.



**Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes**

5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

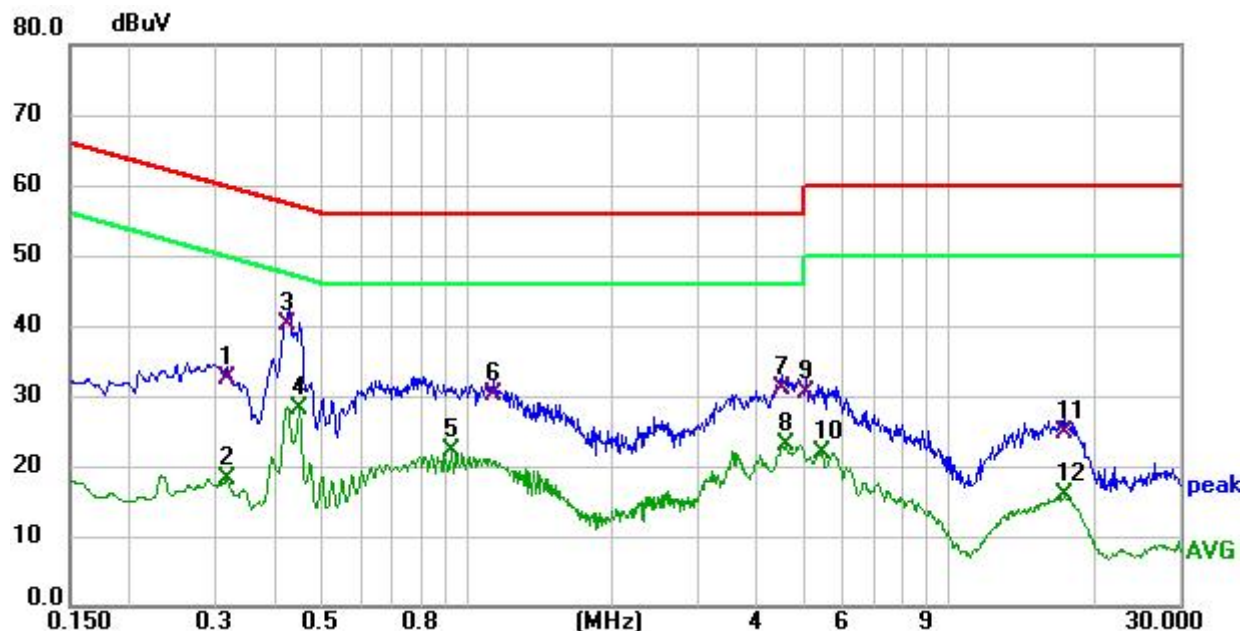
5.7 Conducted Emission Test Result

Pass

Conducted emission at both 120V & 240V is assessed, and emission at 120V represents the worst case. All the modulation modes were tested the data of the worst mode (GFSK LE) are recorded in the following pages and the others modulation methods do not exceed the limits.



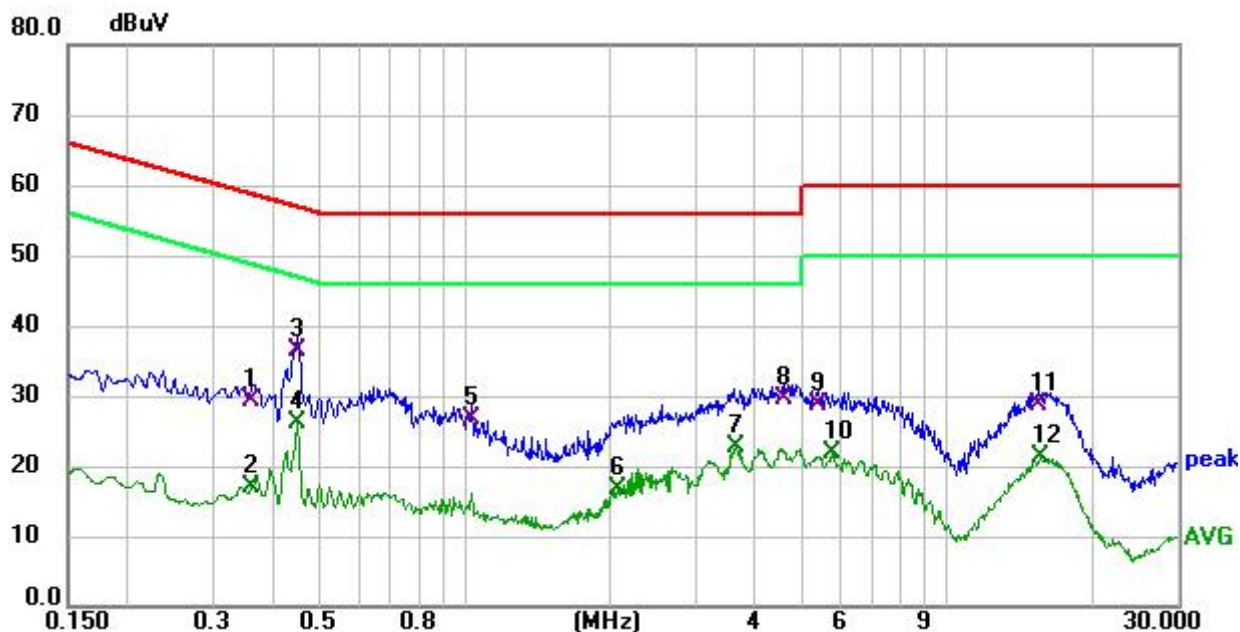
Channel:	LE High	Phase :	L
Model:	RKN-T1R-16-001	Test Voltage :	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.317	20.80	11.53	32.33	59.79	-27.46	QP	P	
2	0.317	6.67	11.53	18.20	49.79	-31.59	AVG	P	
3 *	0.424	28.50	11.53	40.03	57.37	-17.34	QP	P	
4	0.447	16.72	11.53	28.25	46.93	-18.68	AVG	P	
5	0.924	10.60	11.54	22.14	46.00	-23.86	AVG	P	
6	1.135	18.71	11.54	30.25	56.00	-25.75	QP	P	
7	4.501	19.30	11.58	30.88	56.00	-25.12	QP	P	
8	4.591	11.45	11.58	23.03	46.00	-22.97	AVG	P	
9	5.075	18.87	11.58	30.45	60.00	-29.55	QP	P	
10	5.450	10.34	11.59	21.93	50.00	-28.07	AVG	P	
11	17.425	12.84	11.82	24.66	60.00	-35.34	QP	P	
12	17.425	3.94	11.82	15.76	50.00	-34.24	AVG	P	



Channel:	LE High	Phase :	N
Model:	RKN-T1R-16-001	Test Voltage :	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.361	17.90	11.52	29.42	58.71	-29.29	QP	P	
2	0.361	5.47	11.52	16.99	48.71	-31.72	AVG	P	
3 *	0.447	24.98	11.52	36.50	56.93	-20.43	QP	P	
4	0.447	14.68	11.52	26.20	46.93	-20.73	AVG	P	
5	1.027	15.20	11.53	26.73	56.00	-29.27	QP	P	
6	2.080	5.23	11.54	16.77	46.00	-29.23	AVG	P	
7	3.646	11.23	11.56	22.79	46.00	-23.21	AVG	P	
8	4.591	18.13	11.57	29.70	56.00	-26.30	QP	P	
9	5.400	17.11	11.58	28.69	60.00	-31.31	QP	P	
10	5.775	10.17	11.58	21.75	50.00	-28.25	AVG	P	
11	15.450	16.84	11.83	28.67	60.00	-31.33	QP	P	
12	15.675	9.33	11.82	21.15	50.00	-28.85	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



6 Radiated Spurious Emissions

Test Requirement	:	FCC CFR47 Part 15 Section 15.209 & 15.247 RSS-Gen 8.9, RSS-Gen 8.10
Test Method	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and RSS-Gen
Test Result	:	PASS
Measurement Distance	:	3m
Limit	:	See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

ISED

Frequency (MHz)	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
0.009 ~ 0.490	6.37/F (F in kHz)	300
0.490 ~ 1.705	63.7/F (F in kHz)	30
1.705 ~ 30	0.08	30
Frequency (MHz)	Field strength (μV/m at 3 metres)	
30 ~ 88	100	
88 ~ 216	150	
216 ~ 960	200	
Above 960	500	

6.1 EUT Operation

Operating Environment :

Temperature	:	26 °C
Humidity	:	54% RH
Atmospheric Pressure	:	101.3kPa
Test Voltage	:	AC 120V60Hz

Laboratory Address: Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park, No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan, 523710, People's Republic of China

Tel: 0769-87182258

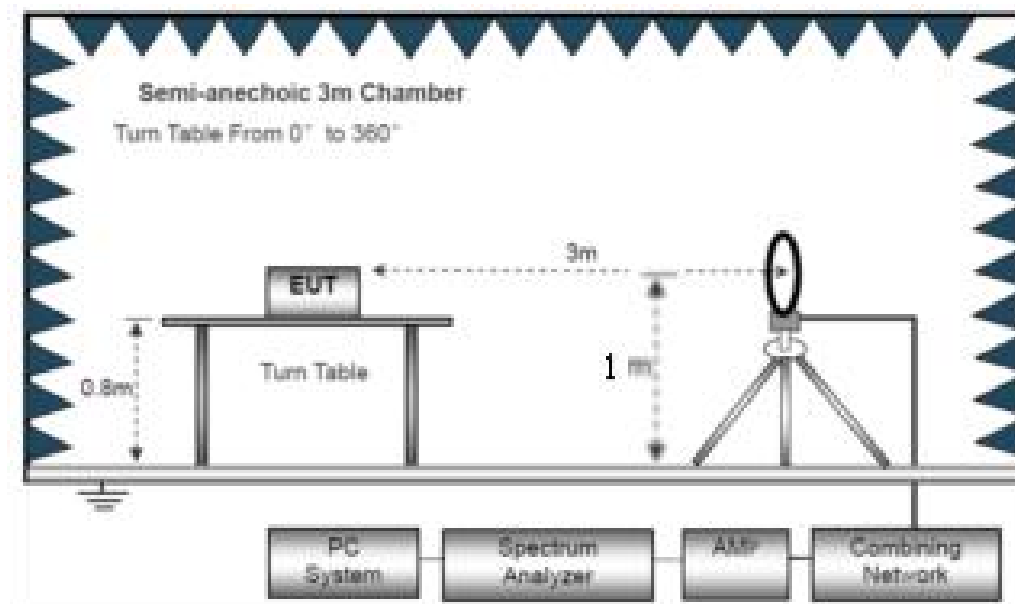
E-mail: kwtest@keywaytest.com

https: www.keywaytest.com

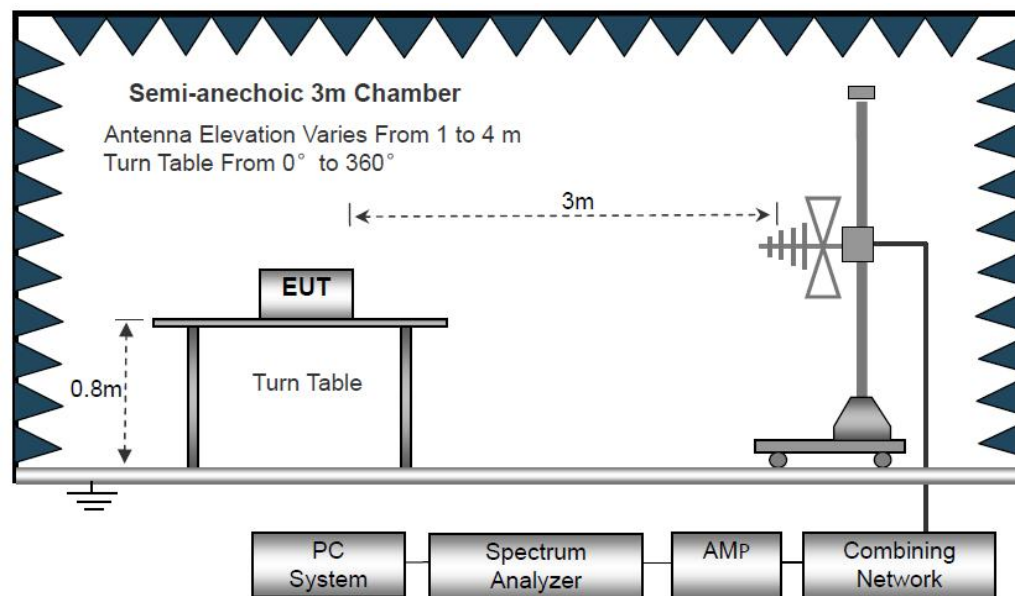
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

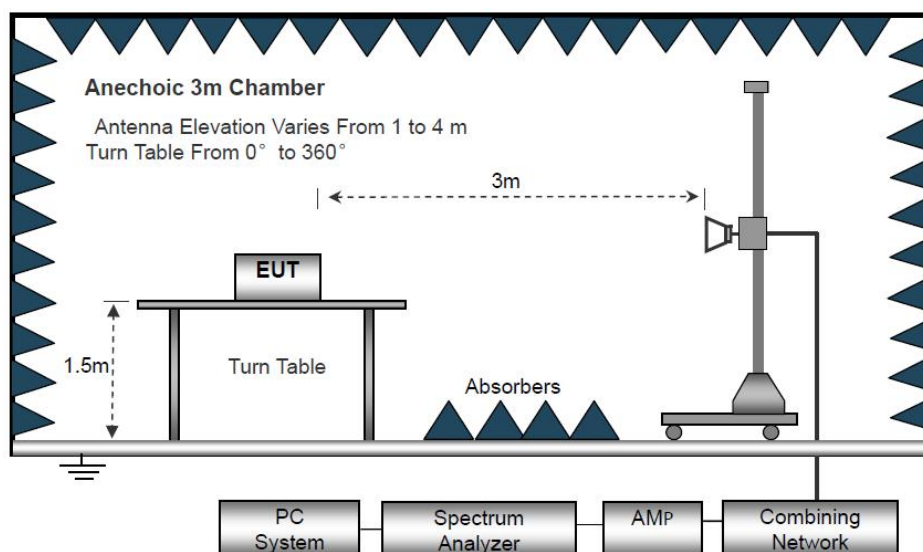
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

6.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
7. Test Procedure of measurement (For Above 1GHz):
 - 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
 - 2) Change the antenna polarization and repeat 1) with vertical polarization.
 - 3) Make a hardcopy of the spectrum.
 - 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
 - 5) Change the analyser mode to Clear/ Write and found the cone of emission.
 - 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
 - 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
 - 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
8. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.



6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	>20

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);

Limit line = Specific limits (dBuV) + distance extrapolation factor.

Test Frequency: 30MHz ~ 1GHz

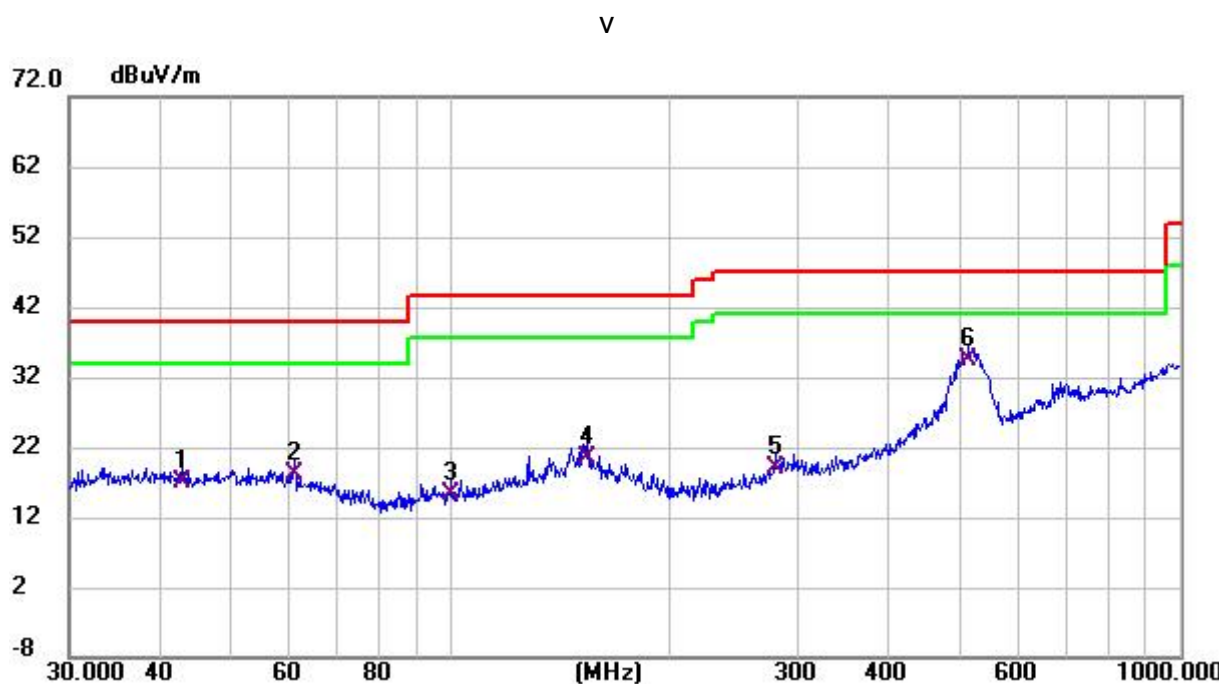
Pass.

Please refer to the following test plots for the worst test mode (GFSK (LE CH39: 2480MHz)).



Channel:	High	Test plot :	Horizontal
Model:	RKN-T1R-16-001	Test Voltage :	AC 120V/60Hz

Test plot for Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.900	2.15	14.71	16.86	40.00	-23.14	QP	200	110	P	
2	61.132	4.65	13.45	18.10	40.00	-21.90	QP	200	3	P	
3	99.878	4.26	11.13	15.39	43.50	-28.11	QP	200	324	P	
4	153.739	5.17	15.34	20.51	43.50	-22.99	QP	200	3	P	
5	279.044	4.93	14.04	18.97	47.00	-28.03	QP	200	110	P	
6 *	513.633	13.62	20.87	34.49	47.00	-12.51	QP	200	302	P	

Remark:Emission Level=Reading+Factor



Channel:	High	Test plot :	Horizontal
Model:	RKN-T1R-16-001	Test Voltage :	AC 120V/60Hz

Test plot for Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	47.326	9.82	14.49	24.31	40.00	-15.69	QP	100	266	P	
2	65.114	8.90	12.69	21.59	40.00	-18.41	QP	100	23	P	
3	76.244	8.89	10.81	19.70	40.00	-20.30	QP	100	295	P	
4	152.130	5.69	15.34	21.03	43.50	-22.47	QP	100	151	P	
5	181.283	7.65	12.81	20.46	43.50	-23.04	QP	100	130	P	
6 *	535.707	19.72	20.90	40.62	46.00	-5.38	QP	100	80	P	

Remark:Emission Level=Reading+Factor



Test Frequency 1GHz-25GHz

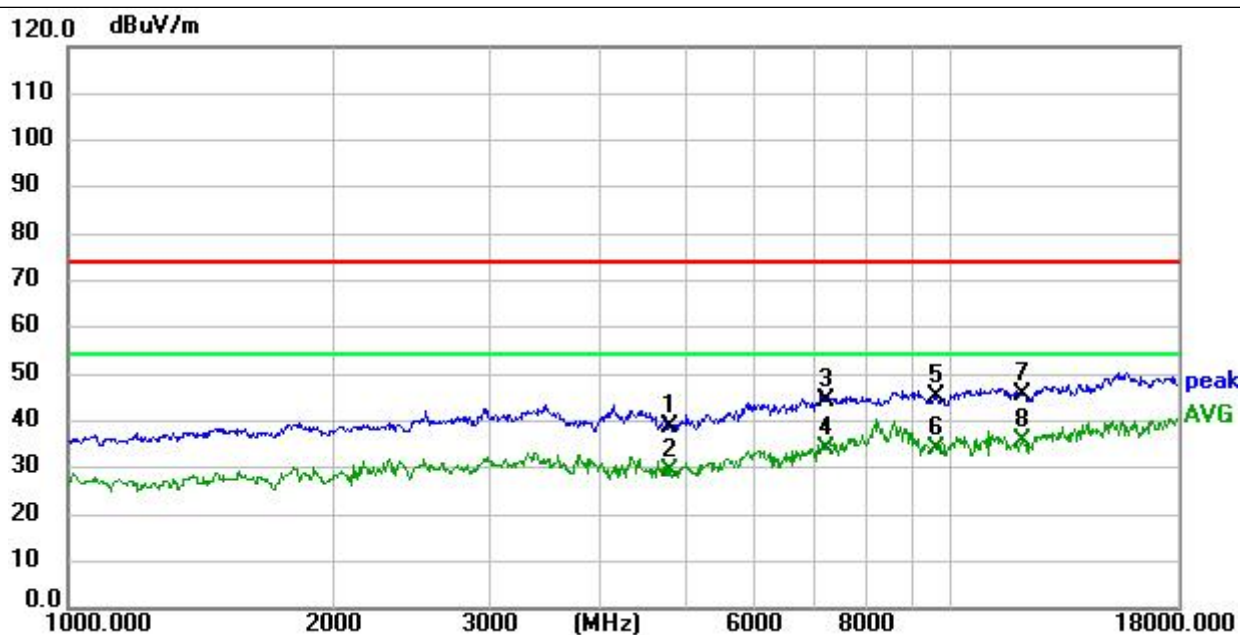
Bluetooth (GFSK) mode have been tested, and the worst result (GFSK) was report as below

M/N : RKN-T1R-16-001

Operation Mode : TX GFSK Low Channel

Test Voltage : AC 120V/60Hz

Test Specification : Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.000	43.95	-4.95	39.00	74.00	-35.00	peak
2	4804.000	34.38	-4.95	29.43	54.00	-24.57	AVG
3	7206.000	44.08	0.24	44.32	74.00	-29.68	peak
4	7206.000	33.94	0.24	34.18	54.00	-19.82	AVG
5	9608.000	43.17	2.10	45.27	74.00	-28.73	peak
6	9608.000	31.86	2.10	33.96	54.00	-20.04	AVG
7	12010.000	41.76	3.87	45.63	74.00	-28.37	peak
8 *	12010.000	31.75	3.87	35.62	54.00	-18.38	AVG

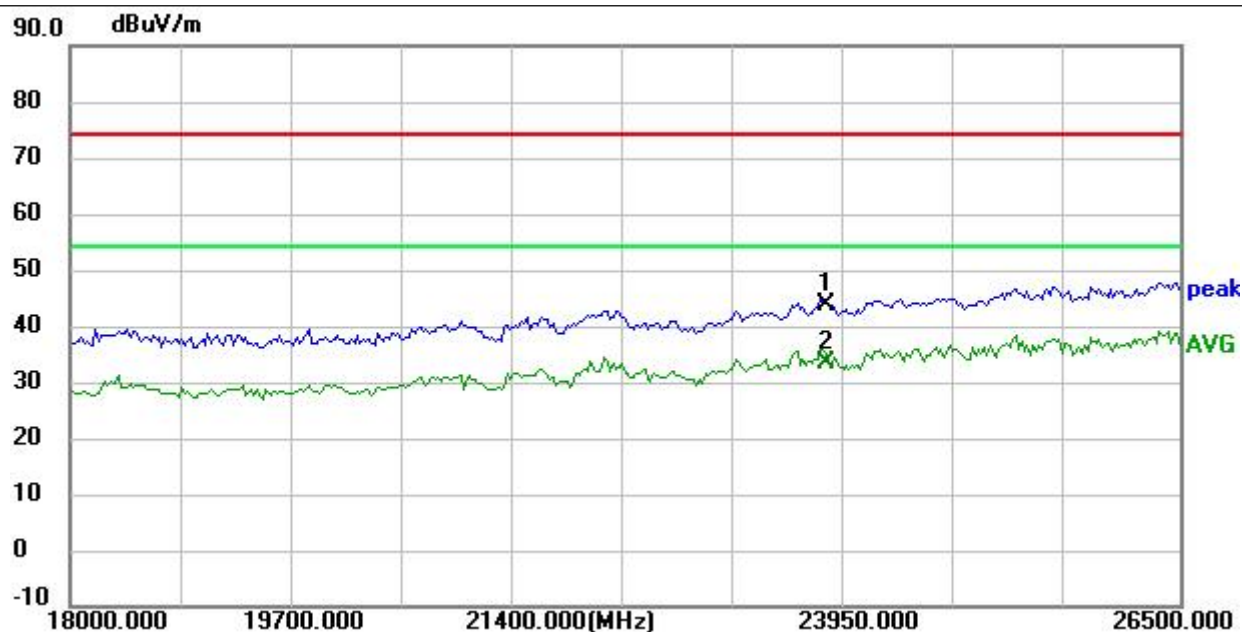
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamp Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Low Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	23813.000	35.73	8.01	43.74	74.00	-30.26	peak
2 *	23813.000	25.43	8.01	33.44	54.00	-20.56	AVG

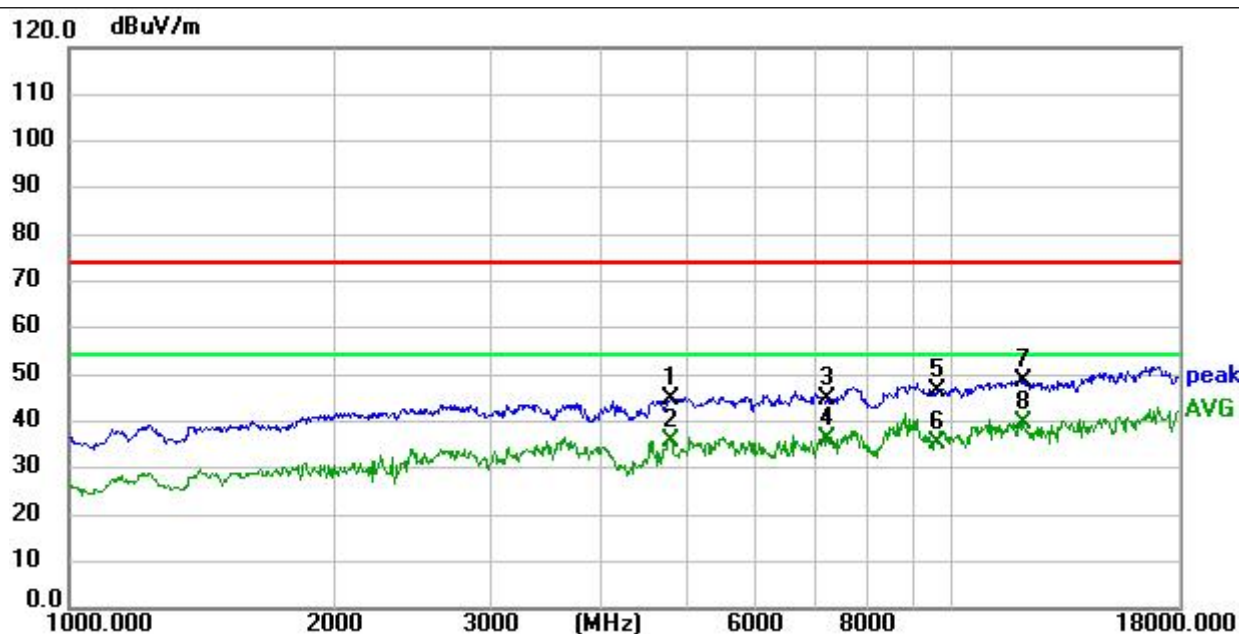
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamplifier Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Low Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.000	49.82	-4.95	44.87	74.00	-29.13	peak
2	4804.000	40.90	-4.95	35.95	54.00	-18.05	AVG
3	7206.000	44.63	0.24	44.87	74.00	-29.13	peak
4	7206.000	36.09	0.24	36.33	54.00	-17.67	AVG
5	9608.000	44.42	2.10	46.52	74.00	-27.48	peak
6	9608.000	33.45	2.10	35.55	54.00	-18.45	AVG
7	12010.000	44.56	3.87	48.43	74.00	-25.57	peak
8 *	12010.000	35.68	3.87	39.55	54.00	-14.45	AVG

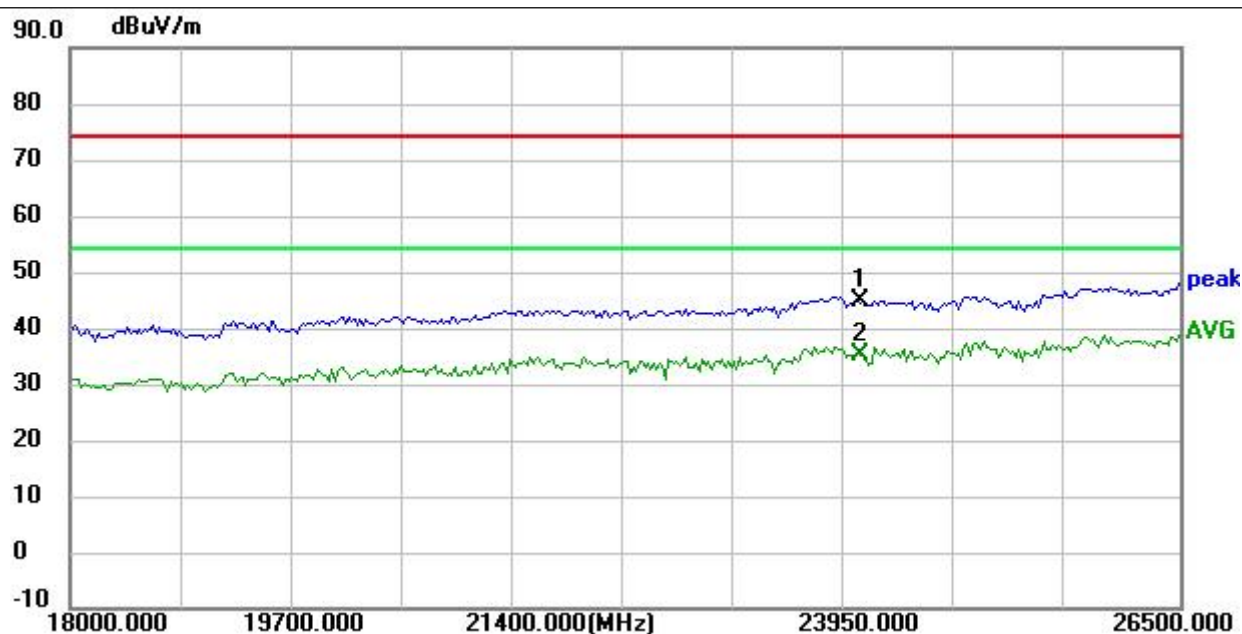
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamp Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Low Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	24077.000	36.28	8.61	44.89	74.00	-29.11	peak
2 *	24077.000	26.68	8.61	35.29	54.00	-18.71	AVG

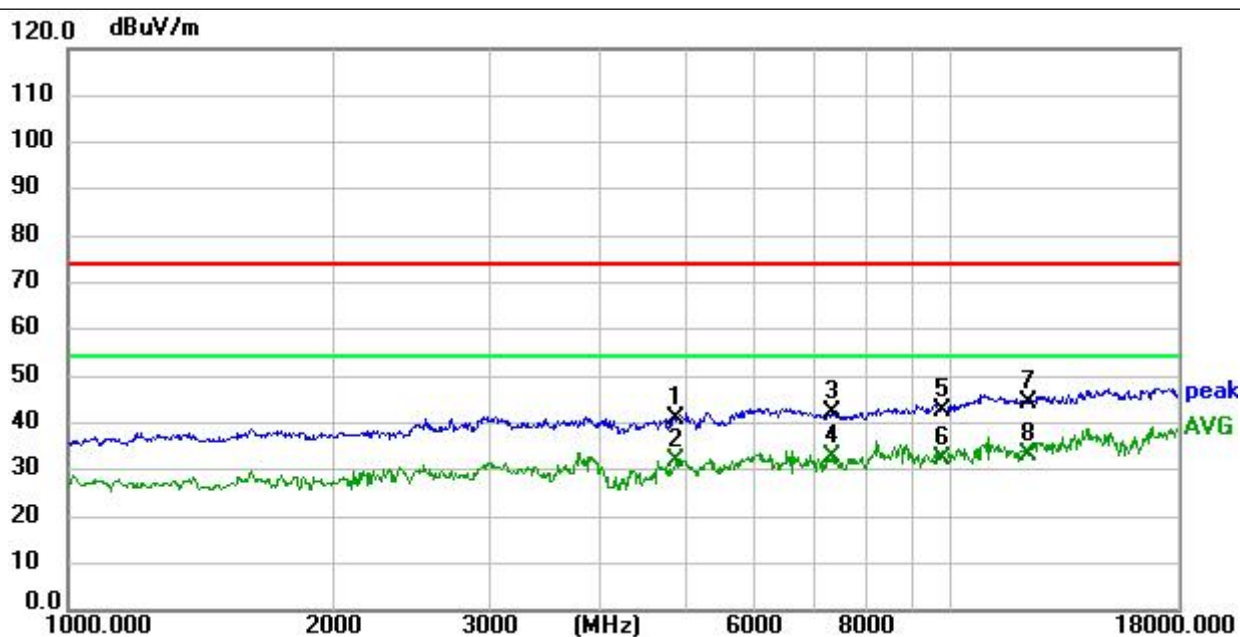
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamp Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Middle Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



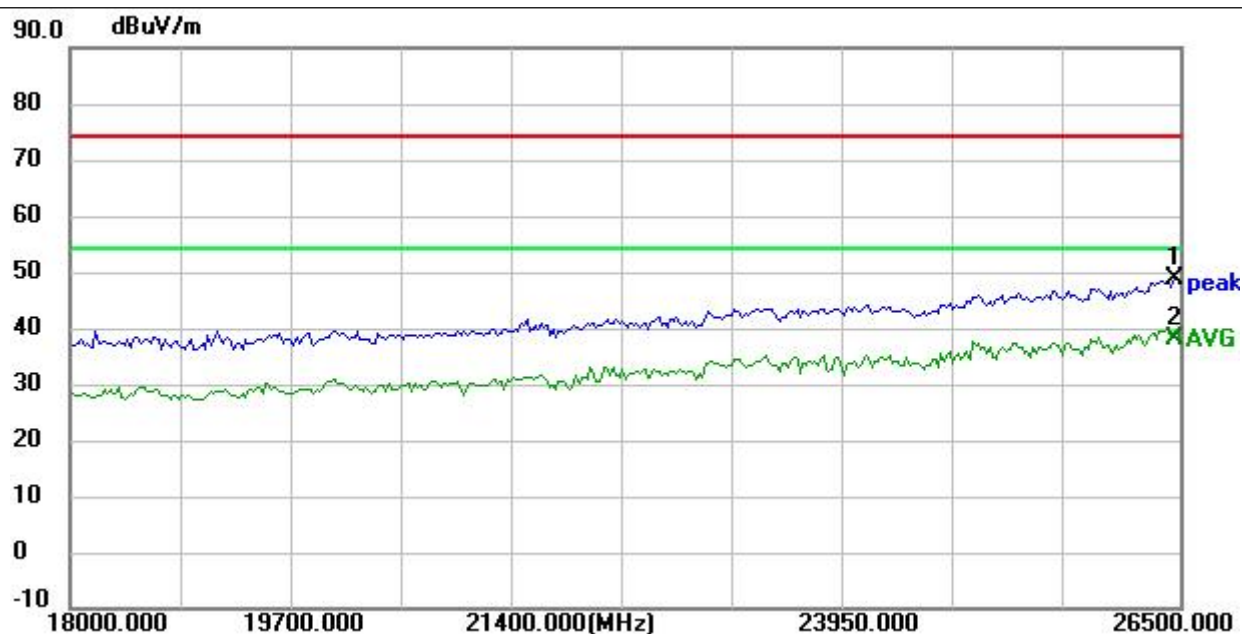
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamplifier Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Middle Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	26455.959	37.42	11.42	48.84	74.00	-25.16	peak
2 *	26455.959	26.54	11.42	37.96	54.00	-16.04	AVG

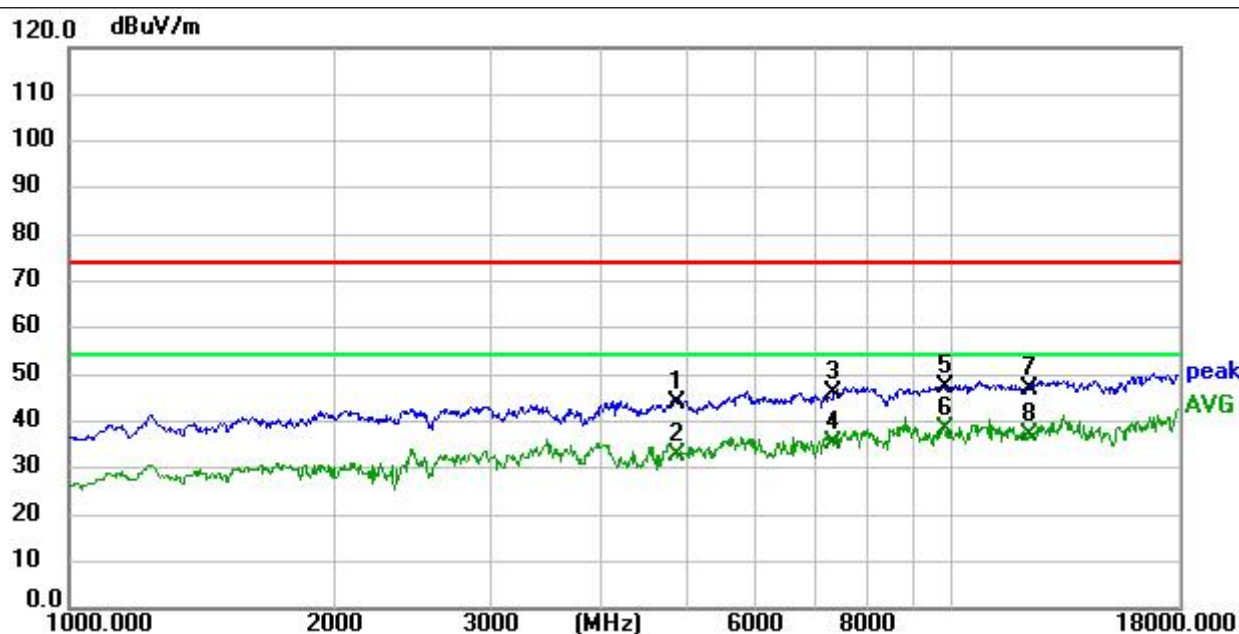
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamplifier Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Middle Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4880.000	48.82	-4.69	44.13	74.00	-29.87	peak
2	4880.000	37.54	-4.69	32.85	54.00	-21.15	AVG
3	7320.000	45.44	0.50	45.94	74.00	-28.06	peak
4	7320.000	35.07	0.50	35.57	54.00	-18.43	AVG
5	9760.000	45.72	1.73	47.45	74.00	-26.55	peak
6 *	9760.000	36.46	1.73	38.19	54.00	-15.81	AVG
7	12200.000	42.22	4.65	46.87	74.00	-27.13	peak
8	12200.000	32.31	4.65	36.96	54.00	-17.04	AVG

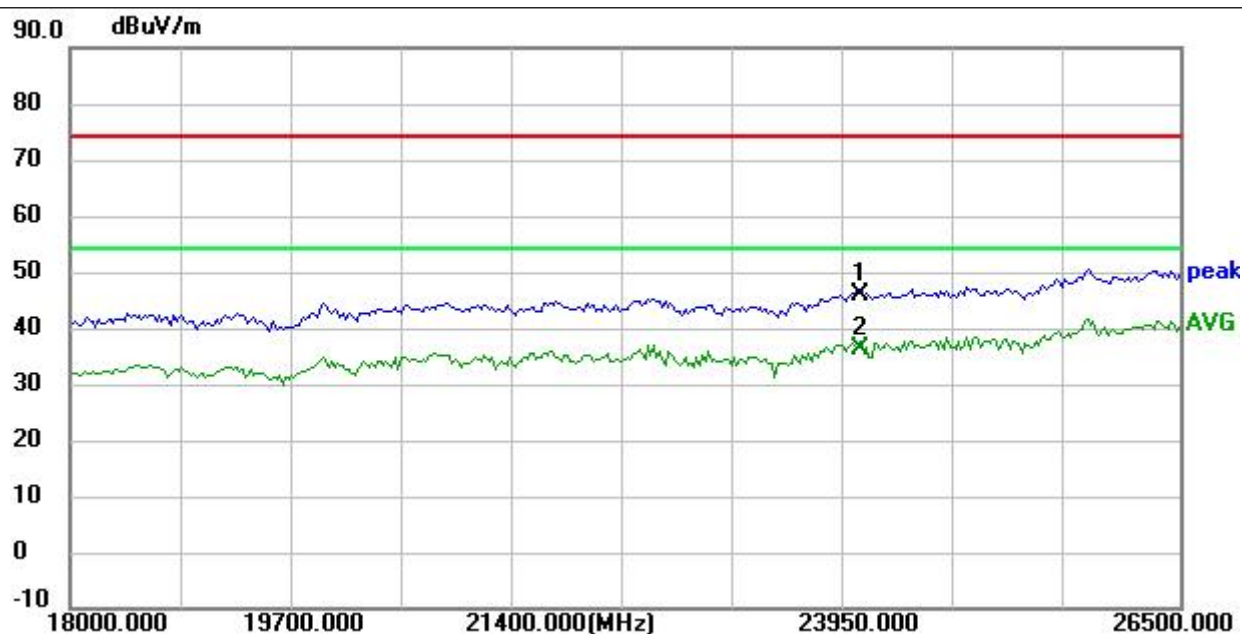
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamplifier Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Middle Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	24077.000	37.28	8.61	45.89	74.00	-28.11	peak
2 *	24077.000	27.68	8.61	36.29	54.00	-17.71	AVG

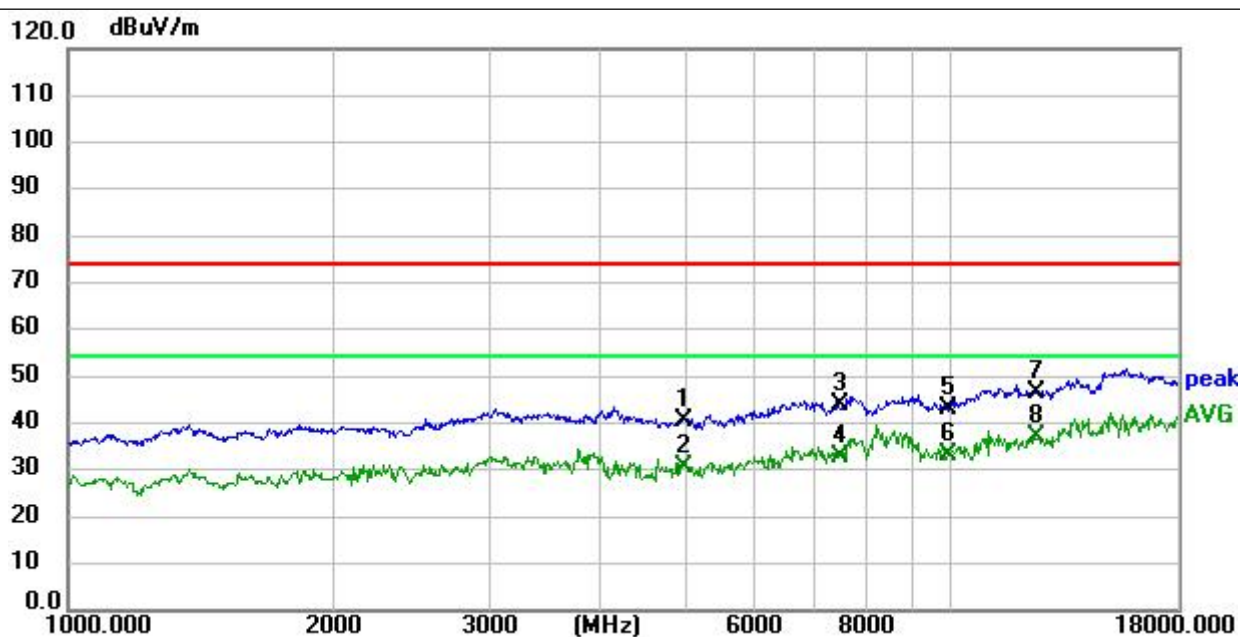
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamp Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK High Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4960.000	45.72	-5.15	40.57	74.00	-33.43	peak
2	4960.000	35.72	-5.15	30.57	54.00	-23.43	AVG
3	7440.000	43.15	0.88	44.03	74.00	-29.97	peak
4	7440.000	31.82	0.88	32.70	54.00	-21.30	AVG
5	9920.000	40.95	1.95	42.90	74.00	-31.10	peak
6	9920.000	31.25	1.95	33.20	54.00	-20.80	AVG
7	12400.000	41.92	4.47	46.39	74.00	-27.61	peak
8 *	12400.000	32.49	4.47	36.96	54.00	-17.04	AVG

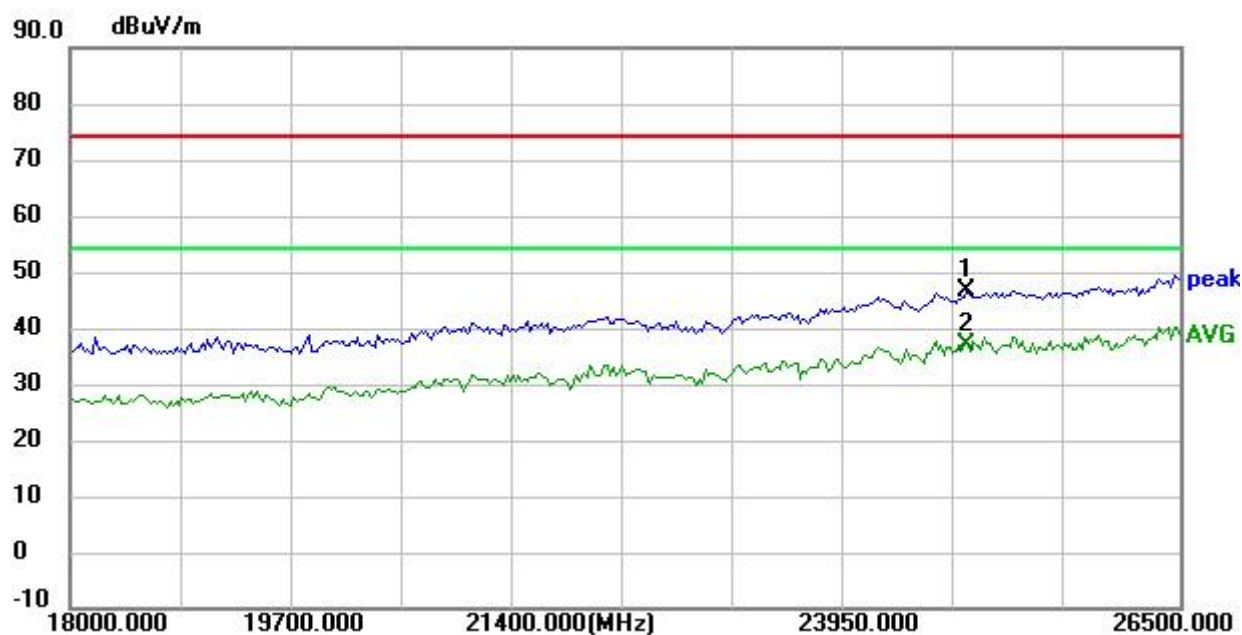
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamplifier Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK High Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	24870.466	36.82	9.92	46.74	74.00	-27.26	peak
2 *	24870.466	27.08	9.92	37.00	54.00	-17.00	AVG

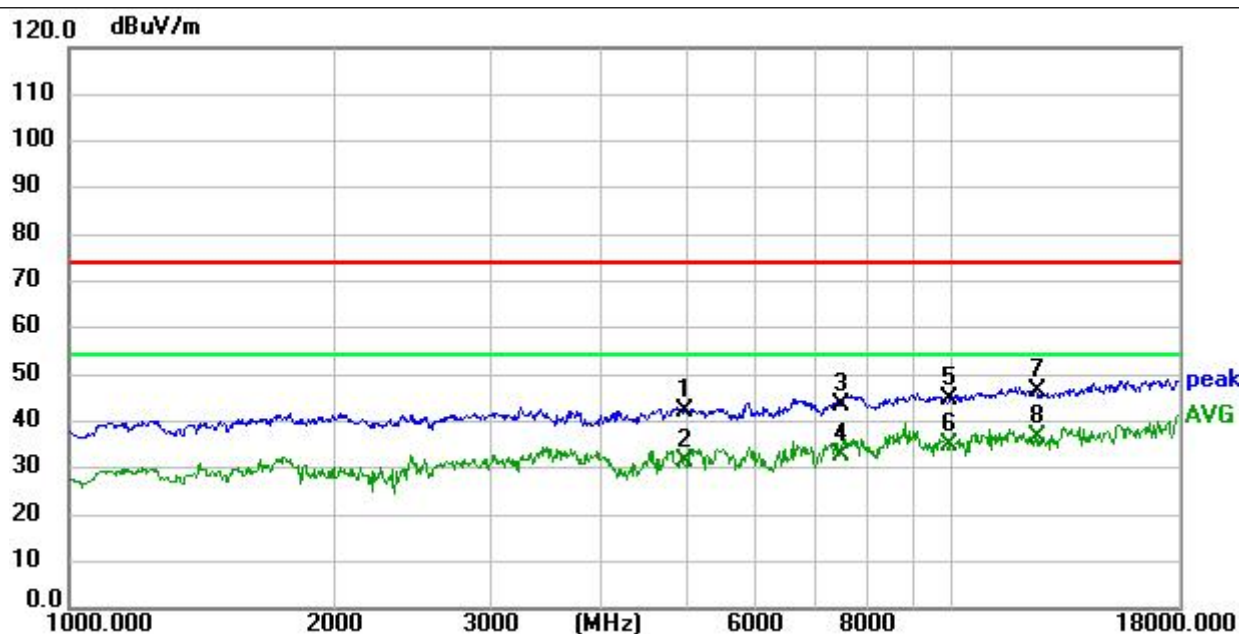
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamplifier Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK High Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4960.000	47.34	-5.15	42.19	74.00	-31.81	peak
2	4960.000	36.76	-5.15	31.61	54.00	-22.39	AVG
3	7440.000	42.60	0.88	43.48	74.00	-30.52	peak
4	7440.000	31.96	0.88	32.84	54.00	-21.16	AVG
5	9920.000	42.90	1.95	44.85	74.00	-29.15	peak
6	9920.000	33.12	1.95	35.07	54.00	-18.93	AVG
7	12400.000	42.01	4.47	46.48	74.00	-27.52	peak
8 *	12400.000	32.06	4.47	36.53	54.00	-17.47	AVG

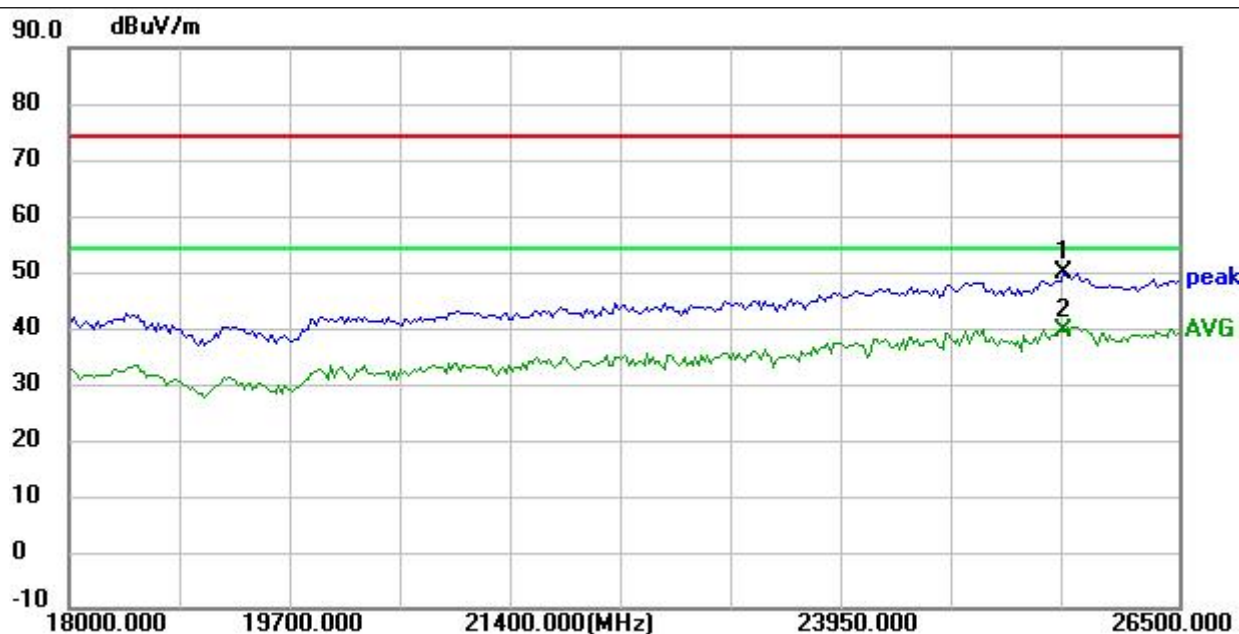
Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamp Factor



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK High Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	25619.171	40.42	9.24	49.66	74.00	-24.34	peak
2 *	25619.171	30.18	9.24	39.42	54.00	-14.58	AVG

Remark:

Emission Level=Reading+Factor

Factor=Cable Loss+ANT Factor-Preamp Factor

Note:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Radiated Band Emission Measuremen:

Bluetooth (GFSK)mode have been tested, and the worst result(GFSK) was report as below

M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Low Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



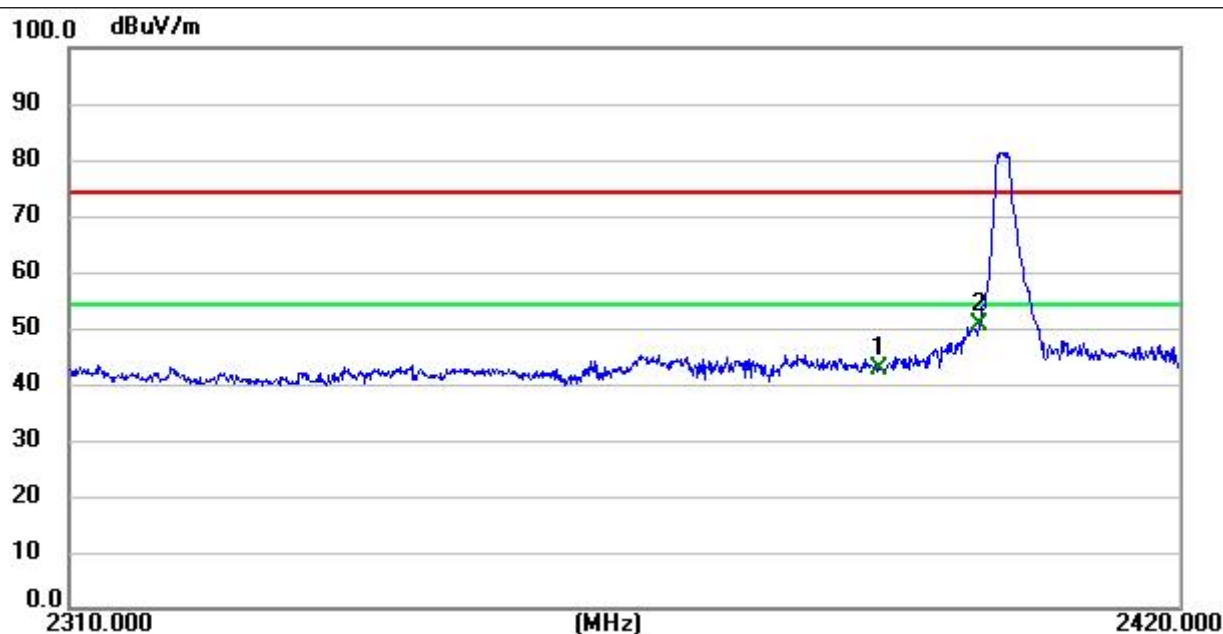
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	57.53	-12.67	44.86	54.00	-9.14	AVG
2 *	2400.000	64.83	-12.69	52.14	54.00	-1.86	AVG

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK Low Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



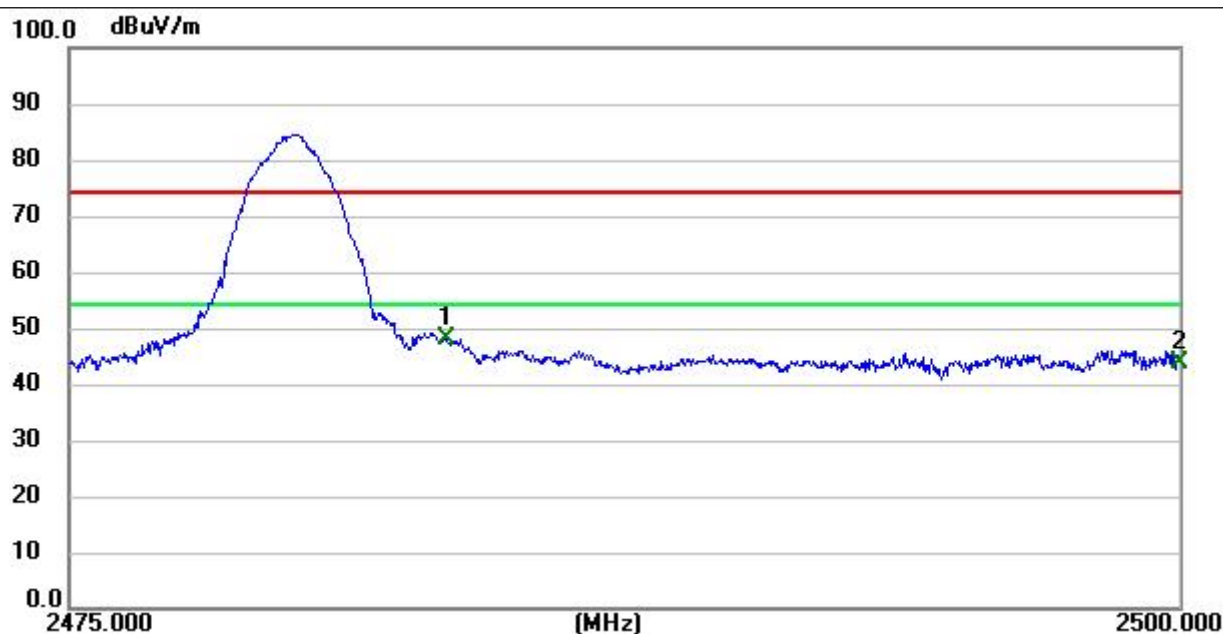
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	55.48	-12.67	42.81	54.00	-11.19	AVG
2 *	2400.000	63.11	-12.69	50.42	54.00	-3.58	AVG

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK High Channel
Test Voltage : AC 120V/60Hz
Test Specification : Horizontal



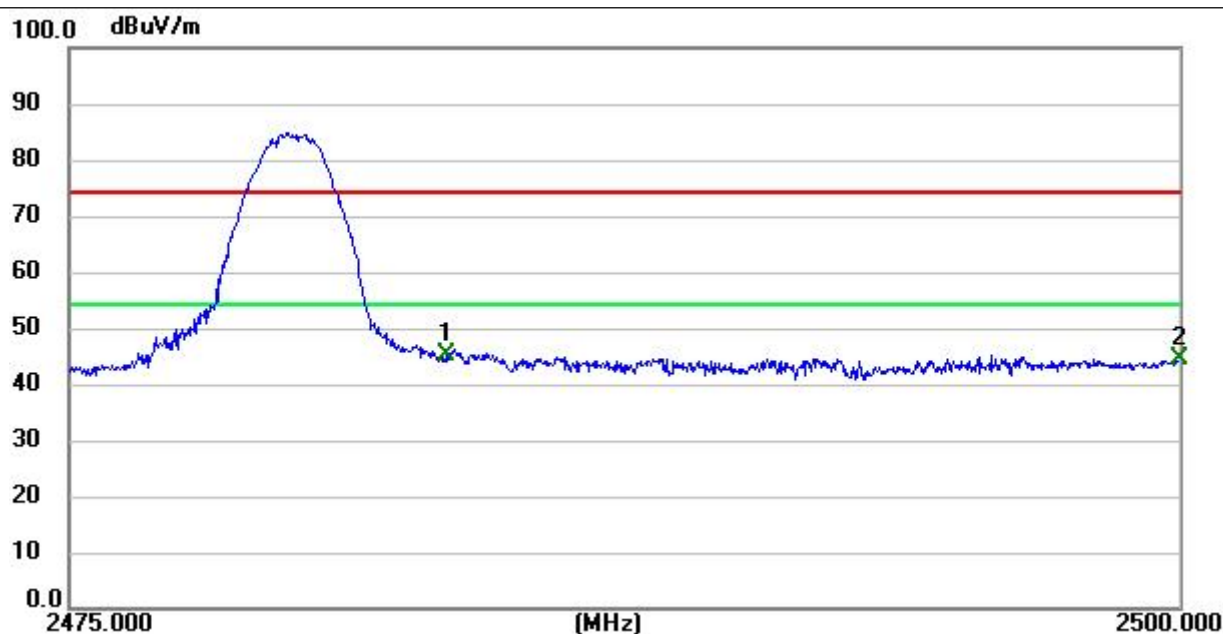
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	60.70	-12.81	47.89	54.00	-6.11	AVG
2	2500.000	56.30	-12.63	43.67	54.00	-10.33	AVG

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



M/N : RKN-T1R-16-001
Operation Mode : TX GFSK High Channel
Test Voltage : AC 120V/60Hz
Test Specification : Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	57.84	-12.81	45.03	54.00	-8.97	AVG
2	2500.000	57.18	-12.63	44.55	54.00	-9.45	AVG

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



7 Conduct Band Edge And Spurious Emissions Measurement

Test Requirement	: Section 15.247(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). RSS-247 5.5
Test Method	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and RSS-Gen
Test Limit	: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). RSS-247 5.5 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system 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 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold

7.2 Test Result

Please see the 2026071019588563-00-appendix III test data.



8 6dB Bandwidth Measurement & 99% OCB Test

Test Requirement	:	FCC CFR47 Part 15 Section 15.247 (a)(2)&RSS-247[5.2(a)]&RSS-GEN 6.7
Test Method	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and RSS-Gen Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Limit	:	For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level 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, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

8.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz(For 6dB bandwidth)
3. Set the spectrum analyzer: RBW = 20kHz, VBW = 62kHz(For LE 99% bandwidth)
4. Set the spectrum analyzer: RBW = 30kHz, VBW = 91kHz(For LE 99% bandwidth)

8.2 Test Result

Please see the 2026071019588563-00-appendix III test data.



9 Maximum Peak Output Power

Test Requirement	:	FCC CFR47 Part 15 Section 15.247 (b)(3)&RSS-247 5.4(b)
Test Method	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and RSS-Gen
Test Limit	:	Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. The e.i.r.p. shall not exceed 4 W

9.1 Test Procedure

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. 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. Measure the conducted output power and record the results in the test report.

9.2 Test Result

Please see the 2026071019588563-00-appendix III test data.



10 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.247 (e)&RSS-247 [6.3.1(b)]
Test Method	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and RSS-Gen
Test Limit	: Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. RSS-247 [6.3.1(b)] the transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2 The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 9.1kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

10.2 Test Result

Please see the 2026071019588563-00-appendix III test data.

11 Antenna Application

11.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

RSS-Gen 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

11.2 Result

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



12 APPENDIX I -- TEST SETUP PHOTOGRAPH

Please see the attachment for details.



13 APPENDIX II -- EUT PHOTOGRAPH

Please see the attachment for details.

*****THE END REPORT*****