

FCC & ISED Radio Test Report

FCC ID: XGB-500300 IC: 3879A-500300

The report concerns:	Original	Grant
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Report Reference No...... 24EFSB11012 09371

Date Sample(s) Received.....: 2024-11-13

Date of Tested...... From 2024-11-13 to 2024-12-03

Date of issue..... 2024-12-03

Testing Laboratory DongGuanShuoXin Electronic Technology Co., Ltd.

Address Zone A, 1F, No. 6, XinGang Road YuanGang Street,

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GuangDong, China

10601, USA

Manufacturer.....: Voyetra Turtle Beach, Inc.

Trade Mark /

Model: 500-300

Ratings I/P: 5Vdc, 500mA

Test Engineer: Jolenes Du Yang

Jelena OuYang

Responsible Engineer:

Leo Chen

Authorized Signatory:

Smile Wang



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1 TEST REPORT DECLARE

Applicant for FCC	Voyetra Turtle Beach, Inc.
Address for FCC	44 South Broadway, 4th Floor, White Plains NY 10601, USA
Manufacturer	Voyetra Turtle Beach, Inc.
Address	44 South Broadway, 4th Floor, White Plains NY 10601, USA
Factory	Voyetra Turtle Beach, Inc.
Address	44 South Broadway, 4th Floor, White Plains NY 10601, USA
Equipment	RIFFMASTER Wireless Guitar Controller for NSW
Model No.	500-300
Trade Mark	1
Standard	FCC Part15, Subpart C (15.247) RSS-247 Issue 3, Aug. 2023 RSS-Gen Issue 5, Apr. 2018 ANSI C63.10-2013

We Declare:

The equipment described above is tested by DongGuanShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuanShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.



2 SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Standard(s	s) Section	Test Item	Judgment Remark	
FCC	ISED	rest item	Judgment	Kemark
15.207	RSS-Gen 8.8	AC Power Line Conducted Emissions	PASS	
15.247(d) 15.205(a) 15.209(a)	RSS-247 5.5 RSS-Gen 8.9 RSS-Gen 8.10	Radiated Emission	PASS	
15.247(a)(1)(iii)	RSS-247 5.1 (d)	Number of Hopping Frequency	PASS	
15.247(a)(1)(iii)	RSS-247 5.1 (d)	Average Time Of Occupancy	PASS	
15.247(a)(1)	RSS-247 5.1 (b)	Hopping Channel Separation	PASS	
15.247(a)(1)	RSS-247 5.1 (a) RSS-Gen 6.7	Bandwidth	PASS	
15.247(a)(1)	RSS-247 5.1 (b)	Maximum Output Power	PASS	
15.247(d)	RSS-247 5.5	Conducted Spurious Emission	PASS	
-	RSS-Gen6.11	Frequency Stability	PASS	
15.203	-	Antenna Requirement	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



2.1 MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Uncertainty for Conduction emission test (9kHz-150kHz)	3.7 dB
Uncertainty for Conduction emission test (150kHz-30MHz)	3.3 dB
Uncertainty for Radiation Emission test (30MHz-200MHz)	4.60 dB (Polarize: V)
Officertainty for Radiation Emission test (30km/2-200km/2)	4.60 dB (Polarize: H)
Lincortainty for Padiation Emission toot (200MHz 10Hz)	6.10 dB (Polarize: V)
Uncertainty for Radiation Emission test (200MHz-1GHz)	5.08 dB (Polarize: H)
Uncertainty for Dadiation Emission toot (10Hz 60Hz)	5.01 dB (Polarize: V)
Uncertainty for Radiation Emission test (1GHz-6GHz)	5.01 dB (Polarize: H)
Uncertainty for Dadiation Emission tost (CCUT 19CUT)	5.26 dB (Polarize: V)
Uncertainty for Radiation Emission test (6GHz-18GHz)	5.26 dB (Polarize: H)
Lineartainty for Dadiction Emission toot (1901 - 1001 -)	5.06 dB (Polarize: V)
Uncertainty for Radiation Emission test (18GHz-40GHz)	5.06 dB (Polarize: H)
Uncertainty for radio frequency	±0.048kHz
Uncertainty for conducted RF Power	±0.32dB

Note:

This uncertainty represents an expanded uncertainty expressed at approximately the 95%confidence level using a coverage factor of k=2.

Test Facility:

The Test site used by DongGuanShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

The test facility is recognized, certified, or accredited by the following organizations:

Item	Registration No.	Expiration Date
CNAS	L3098	2030-08-27
A2LA	4893.01	2026-06-30
Innovation, Science and Economic Development Canada (ISED)	11033A CAB identifer:CN0083	2026-06-30
Federal Communications Commission (FCC)	171688 Designation No.:CN1235	2026-06-30



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	RIFFMASTER Wireless Guitar C	Controller for NSW	
Brand Name	1		
Test Model	500-300		
Series Model	N/A		
Model Difference(s)	N/A		
Hardware Version	1.0		
Software Version	1.0		
Power Source	DC 5V		
Power Rating	DC 5V Charged		
Operation Frequency	2402 MHz ~ 2480 MHz		
Modulation Technology	GFSK, π/4-DQPSK, 8-DPSK		
Bit Rate of Transmitter	1Mbps /2Mbps /3Mbps		
Antenna Information	Antenna Type: PCB	Maximum Peak Gain: 1.63dBi	
Max. Output Power	1Mbps: 1.256 dBm (0.001335 W 2Mbps: 2.776 dBm (0.001895 W 3Mbps: 2.893 dBm (0.001947 W	ý)	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.





2. 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
08	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		



3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	TX Mode Channel 01_3Mbps

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test		
Final Test Mode Description		
Mode 2 TX Mode Channel 01_3Mbps		

Radiated emissions test - Below 1GHz				
Final Test Mode Description				
Mode 2	TX Mode Channel 01_3Mbps			

Radiated emissions test - Above 1GHz				
Final Test Mode Description				
Mode 1 TX Mode NOTE (1)				

Conducted test				
Final Test Mode Description				
Mode 1	TX Mode NOTE (1)			

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Maximum Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

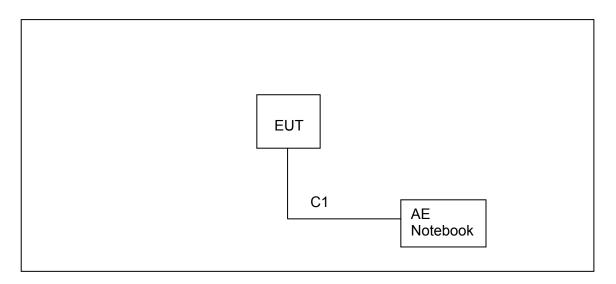


3.3 PARAMETERS OF TEST SOFTWARE

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 FHSS

Test Software	cybluetool				
Frequency (MHz)	2402 2441 2480				
Parameters(1Mbps)	Default	Default	Default		
Parameters(3Mbps)	Default	Default	Default		

3.4 BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
AE	Notebook	Lenovo	1	1

Item	Cable Type	Shielded Type	Ferrite Core	Length
C1	DC Cable	NO	NO	0.8m





3.6 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage
AC Power Line Conducted Emissions	04.400	000/	DC 5V
AC Power Line Conducted Emissions	24.4°C	62%	(AC 120V/60Hz)
Radiated Emissions-9K-30MHz	25.0°C	60%	DC 5V
Radiated Emissions-30 MHz to 1GHz	24.2°C	59%	DC 5V
Radiated Emissions-Above 1000 MHz	24.2°C	59%	DC 5V
Number of Hopping Frequency	24.6°C	48%	DC 5V
Average Time Of Occupancy	24.6°C	48%	DC 5V
Hopping Channel Separation	24.6°C	48%	DC 5V
Bandwidth	24.6°C	48%	DC 5V
Maximum Output Power	24.6°C	48%	DC 5V
Conducted Spurious Emission	24.6°C	48%	DC 5V



4 AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Fraguency of Emission (MHz)	Limit (dBµV)			
Frequency of Emission (MHz)	Quasi-peak	Average		
0.15 - 0.50	66 to 56*	56 to 46*		
0.50 - 5.0	56	46		
5.0 - 30.0	60	50		

Note:

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

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.2 TEST PROCEDURE

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

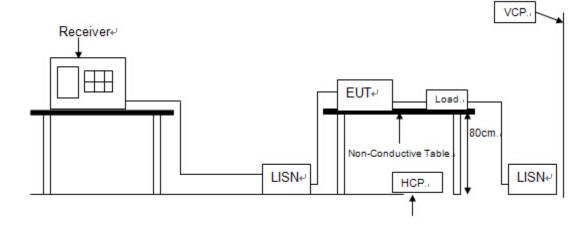
4.3MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Pulse Limiter	ter MTS-systemtechn MTS-IMP-13		261115-010-0024	11/17/2025
2	EMI Test Receiver	R&S	ESCI	101308	06/05/2025
3	LISN	AFJ	LS16	16011103219	06/05/2025
4	LISN	Schwarzbeck	NSLK 8127	8127-432	06/05/2025
5	MeasurementSoftwar e	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

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4.4 TESTSETUP



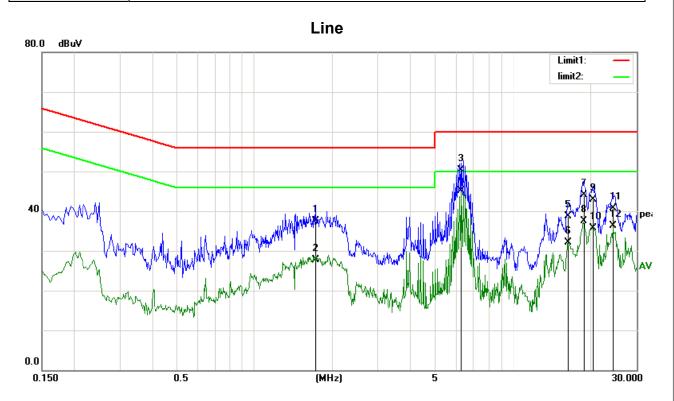
4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting data or hopping on mode.



4.6 TEST RESULTS

Test Mode: TX Mode Channel 01 _3Mbps



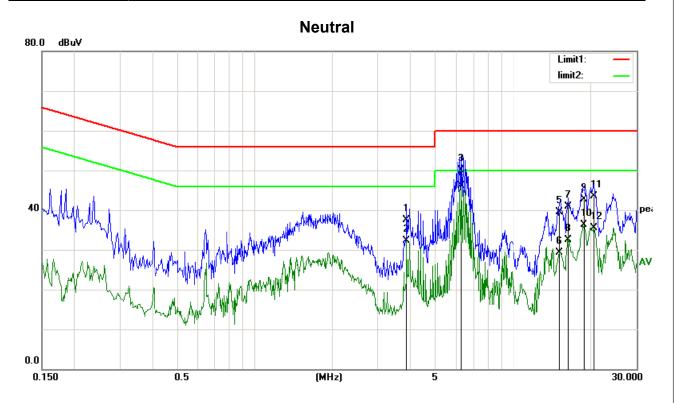
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	1.7219	26.67	10.87	37.54	56.00	-18.46	QP
2	1.7219	16.84	10.87	27.71	46.00	-18.29	AVG
3	6.3178	39.47	10.86	50.33	60.00	-9.67	QP
4	6.3178	34.34	10.86	45.20	50.00	-4.80	AVG
5	16.3018	26.08	12.66	38.74	60.00	-21.26	QP
6	16.3018	19.48	12.66	32.14	50.00	-17.86	AVG
7	18.7578	30.88	13.27	44.15	60.00	-15.85	QP
8	18.7578	24.21	13.27	37.48	50.00	-12.52	AVG
9	20.4259	29.35	13.54	42.89	60.00	-17.11	QP
10	20.4259	22.12	13.54	35.66	50.00	-14.34	AVG
11	24.3500	27.45	13.17	40.62	60.00	-19.38	QP
12	24.3500	23.04	13.17	36.21	50.00	-13.79	AVG

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	3.8740	26.36	11.09	37.45	56.00	-18.55	QP
2	3.8740	21.16	11.09	32.25	46.00	-13.75	AVG
3	6.3178	39.28	10.86	50.14	60.00	-9.86	QP
4	6.3178	35.15	10.86	46.01	50.00	-3.99	AVG
5	15.0777	27.16	12.36	39.52	60.00	-20.48	QP
6	15.0777	16.97	12.36	29.33	50.00	-20.67	AVG
7	16.3059	28.21	12.66	40.87	60.00	-19.13	QP
8	16.3059	19.79	12.66	32.45	50.00	-17.55	AVG
9	18.7377	29.39	13.27	42.66	60.00	-17.34	QP
10	18.7377	23.01	13.27	36.28	50.00	-13.72	AVG
11	20.5060	30.06	13.53	43.59	60.00	-16.41	QP
12	20.5060	22.06	13.53	35.59	50.00	-14.41	AVG

Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



5 RADIATED EMISSION TEST

5.1 LIMIT

In case the emission fall within the restricted band specified on15.205(a) &RSS-Gen 8.10, then the 15.209(a) &RSS-Gen 8.9 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000MHz)

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-30 MHz)

Frequency	Magnetic field strength (H-Field)	Measurement Distance		
(MHz)	(μA/m)	(meters)		
0.009-0.490	6.37/F(kHz)	300		
0.490-1.705	6.37/F(kHz)	30		
1.705-30.0	0.08	30		

LIMITS OF RADIATED EMISSION MEASUREMENT (30 MHz-1000MHz)

Frequency	Field Strength
(MHz)	(μV/m at 3m)
30-88	100
88-216	150
216-960	200
Above 960	500

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m at 3 m)				
Frequency (Wiriz)	Peak	Average			
Above 1000	74	54			

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C and RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



5.2 TEST PROCEDURE AND SETTING

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
 - (1) Result = Reading + Correct Factor
 - (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
 - (3) Margin = Result Limit

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

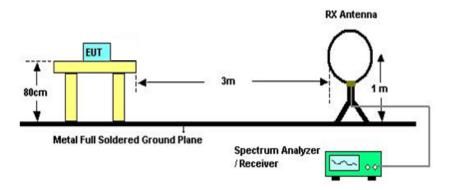


5.3 MEASUREMENT INSTRUMENTS LIST

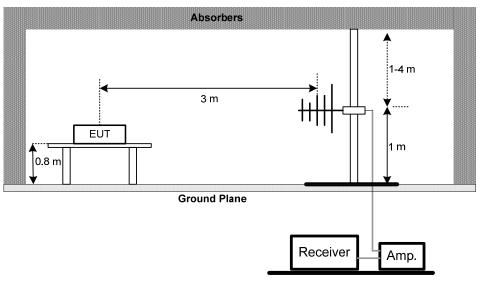
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	101307	06/05/2025
2	Spectrum Analyzer	Agilent	E4407B	US40240708	11/17/2025
3	Loop antenna	SCHWARZBECK K	FMZB1519	1519-062	01/14/2025
4	Broadband antenna	SCHWARZBECK	VULB9168	VULB9168-192	03/29/2025
5	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D 1065	03/29/2025
6	Preamplifier Amplifier	HP	8447F	3113A05680	11/17/2025
7	PRE-AMPLIFIER	EMEC	EM01G26G	980136	03/29/2025
8	RF Cable	R&S	Test Cable 4	4	11/17/2025
9	RF Cable	R&S	Test Cable 5	5	11/17/2025
10	RF Cable	R&S	Test Cable 9	9	04/17/2025
11	RF Cable	R&S	Test Cable 10	10	04/17/2025
12	Measurement Software	Farad	EZ-EMC (Ver.ATT-03A)	N/A	N/A

5.4 TESTSETUP

9 kHz-30 MHz

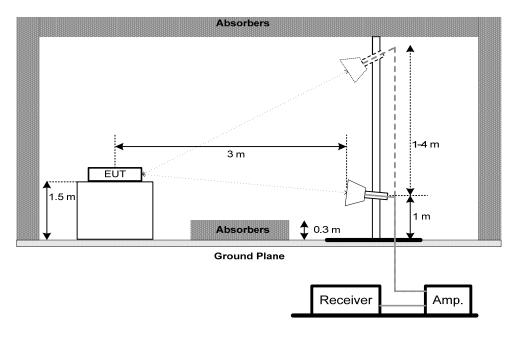


30 MHz to 1 GHz





Above 1 GHz



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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5.6 TEST RESULTS - 9 kHz TO 30MHz

Test Mode:	TX Mode Channel 01 _3Mbps
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Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				Р
				Р

Note:

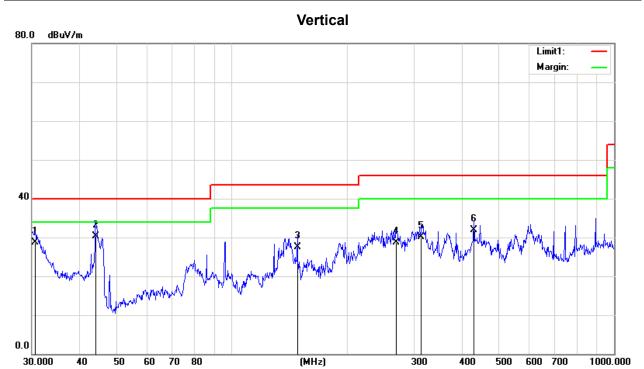
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor



5.7 TEST RESULTS- 30 MHz TO 1000MHz

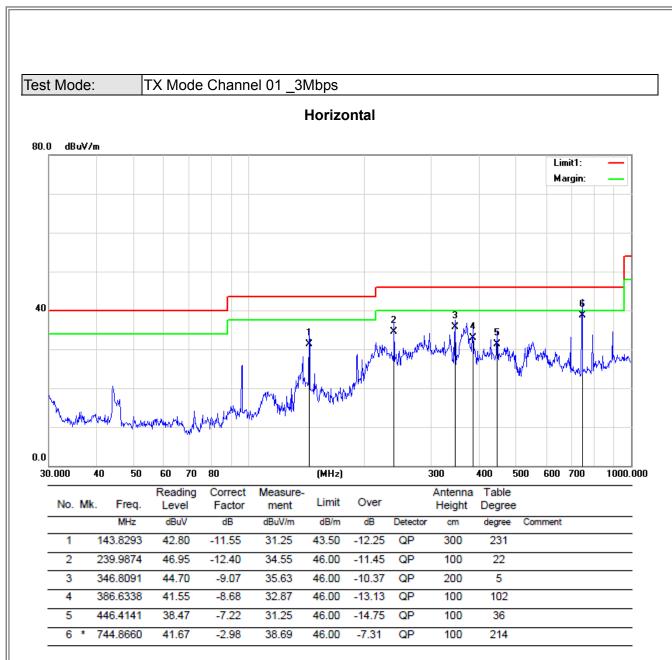
Test Mode: TX Mode Channel 01 _3Mbps



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		30.6378	44.48	-15.74	28.74	40.00	-11.26	QP	100	48	
2	*	44.1200	44.28	-14.07	30.21	40.00	-9.79	QP	100	168	
3		148.4410	38.05	-10.50	27.55	43.50	-15.95	QP	300	12	
4		269.4284	39.35	-10.66	28.69	46.00	-17.31	QP	100	0	
5		313.2760	39.46	-9.35	30.11	46.00	-15.89	QP	100	55	
6		429.5228	39.32	-7.34	31.98	46.00	-14.02	QP	200	36	

^{*:}Maximum data x:Over limit !:over margin



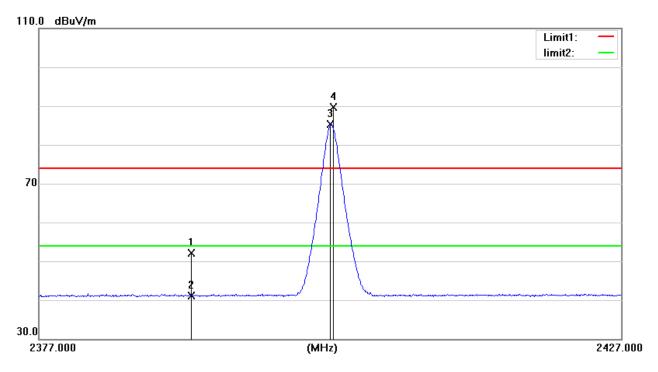


^{*:}Maximum data x:Over limit !:over margin



5.8 TEST RESULTS - ABOVE 1000MHz (BAND EDGE)

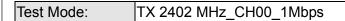
Test Mode: TX 2402 MHz_CH00_1Mbps



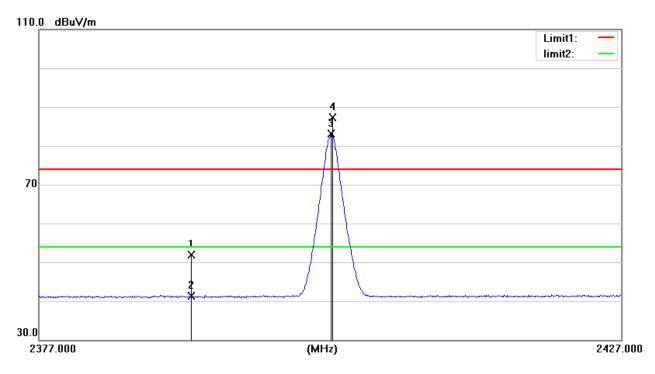
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	21.93	30.14	52.07	74.00	-21.93	peak	150	149	
2		2390.000	11.04	30.14	41.18	54.00	-12.82	AVG	150	149	
3	*	2401.950	55.15	30.15	85.30	54.00	31.30	AVG	150	149	No Limit
4	Х	2402.200	59.59	30.15	89.74	74.00	15.74	peak	150	149	No Limit

^{*:}Maximum data x:Over limit !:over margin





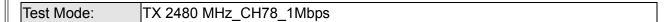
Horizontal

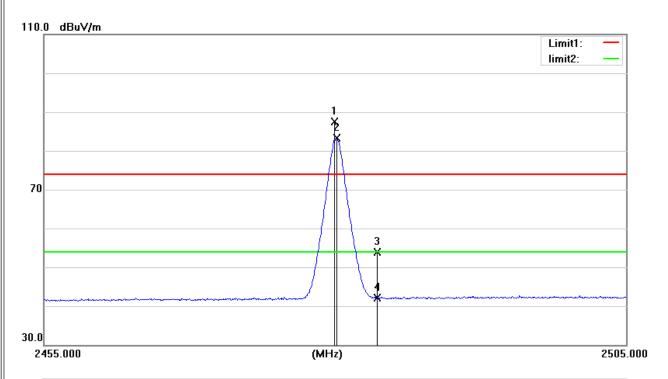


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	21.81	30.14	51.95	74.00	-22.05	peak	150	0	
2		2390.000	11.06	30.14	41.20	54.00	-12.80	AVG	150	0	
3	*	2402.000	52.88	30.15	83.03	54.00	29.03	AVG	150	0	No Limit
4	Х	2402.150	57.17	30.15	87.32	74.00	13.32	peak	150	0	No Limit

^{*:}Maximum data x:Over limit !:over margin







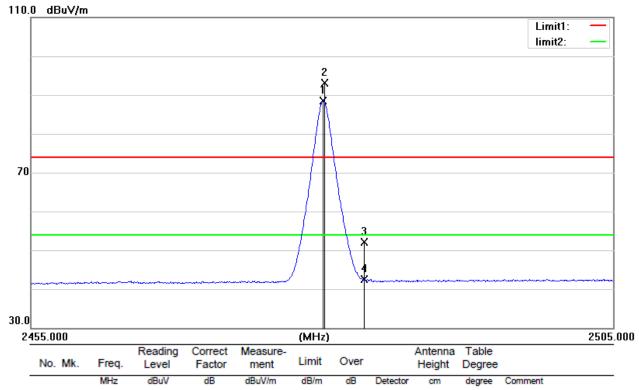
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	X	2479.850	56.91	30.67	87.58	74.00	13.58	peak	150	187	No Limit
2	*	2480.050	52.64	30.67	83.31	54.00	29.31	AVG	150	187	No Limit
3		2483.500	23.12	30.71	53.83	74.00	-20.17	peak	150	187	
4		2483.500	11.46	30.71	42.17	54.00	-11.83	AVG	150	187	

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_1Mbps

Horizontal

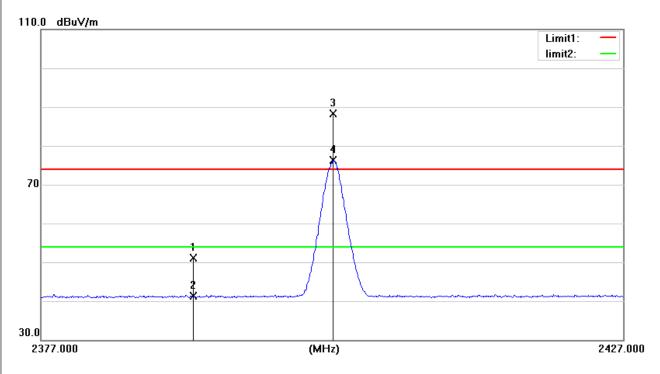


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	2480.000	57.91	30.67	88.58	54.00	34.58	AVG	150	293	No Limit
2	Х	2480.150	62.53	30.67	93.20	74.00	19.20	peak	150	293	No Limit
3		2483.500	21.30	30.71	52.01	74.00	-21.99	peak	150	293	
4		2483.500	11.74	30.71	42.45	54.00	-11.55	AVG	150	293	

^{*:}Maximum data x:Over limit !:over margin



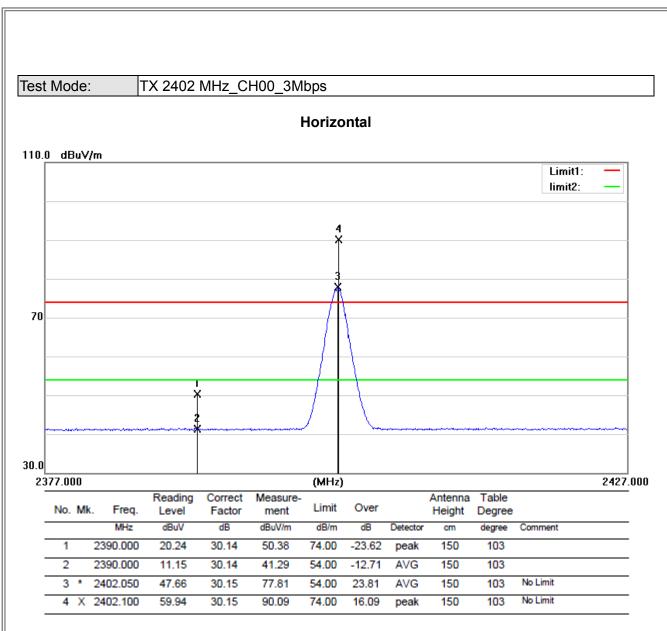
Test Mode: TX 2402 MHz_CH00_3Mbps



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		2390.000	20.99	30.14	51.13	74.00	-22.87	peak	150	158	
2		2390.000	11.21	30.14	41.35	54.00	-12.65	AVG	150	158	
3	Χ	2401.950	58.06	30.15	88.21	74.00	14.21	peak	150	158	No Limit
4	*	2402.000	46.08	30.15	76.23	54.00	22.23	AVG	150	158	No Limit

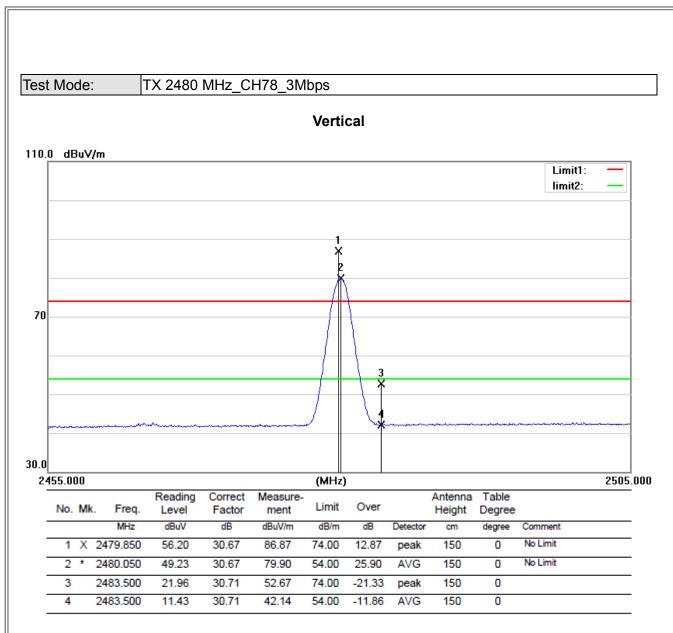
^{*:}Maximum data x:Over limit !:over margin





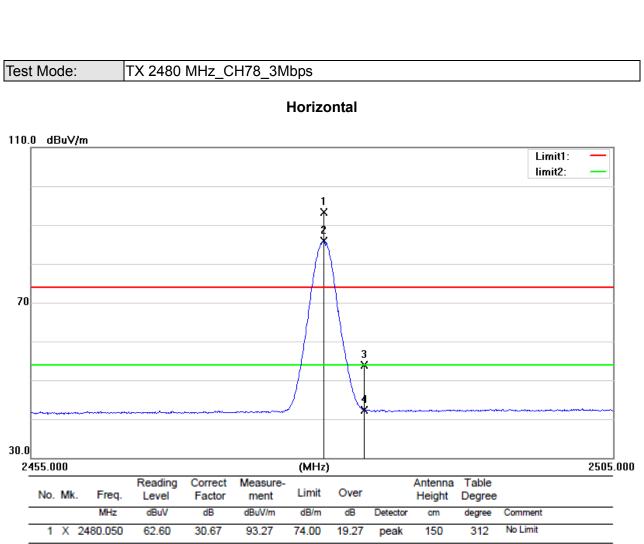
^{*:}Maximum data x:Over limit !:over margin





^{*:}Maximum data x:Over limit !:over margin





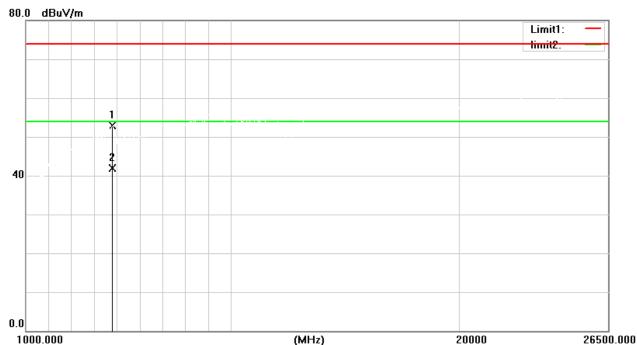
	No.	Mk	. Freq.	Level	Factor	ment	Limit	Over		Antenna Height	Degree	
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
-	1	Х	2480.050	62.60	30.67	93.27	74.00	19.27	peak	150	312	No Limit
-	2	*	2480.050	55.24	30.67	85.91	54.00	31.91	AVG	150	312	No Limit
-	3		2483.500	23.24	30.71	53.95	74.00	-20.05	peak	150	312	
-	4		2483.500	11.65	30.71	42.36	54.00	-11.64	AVG	150	312	
-												

^{*:}Maximum data x:Over limit !:over margin



5.9 TEST RESULTS - ABOVE 1000MHz (HARMONIC)

Test Mode: TX 2402 MHz_CH00_1Mbps



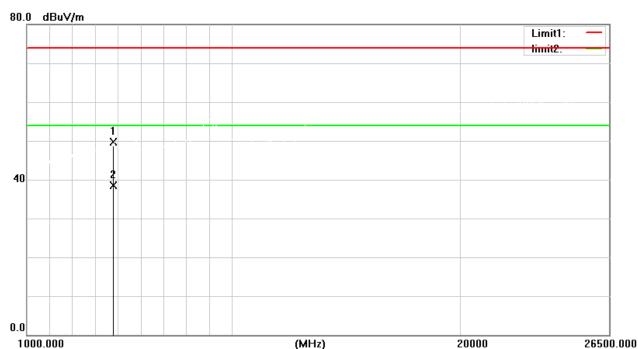
•	יט.טטט	UU					(MHZ)	l			20000		26500.0
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height			
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
	1		4804.000	54.87	-1.90	52.97	74.00	-21.03	peak	150	28		
	2	*	4804.000	43.88	-1.90	41.98	54.00	-12.02	AVG	150	28		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2402 MHz_CH00_1Mbps

Horizontal

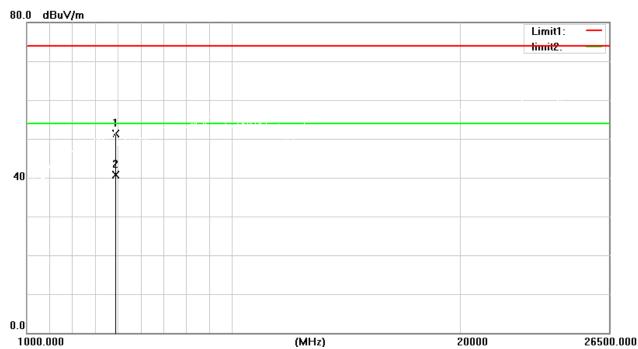


		_					· · · · · · · · · · · · · · · · · · ·	•					
	No. I	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height			
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
	1	4	1804.000	51.63	-1.90	49.73	74.00	-24.27	peak	150	98		
	2 '	* 4	1804.000	40.34	-1.90	38.44	54.00	-15.56	AVG	150	98		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_1Mbps



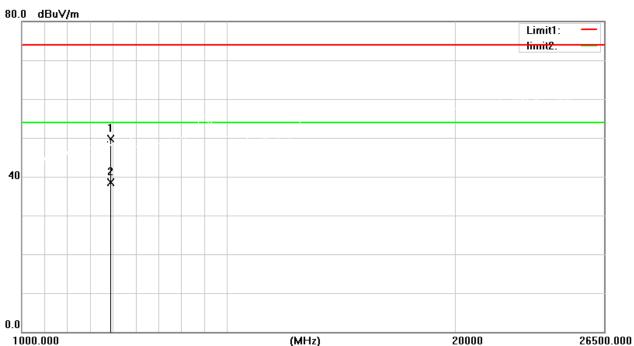
No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		4882.000	53.42	-2.16	51.26	74.00	-22.74	peak	150	96	
2	*	4882.000	42.85	-2.16	40.69	54.00	-13.31	AVG	150	96	

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_1Mbps

Horizontal

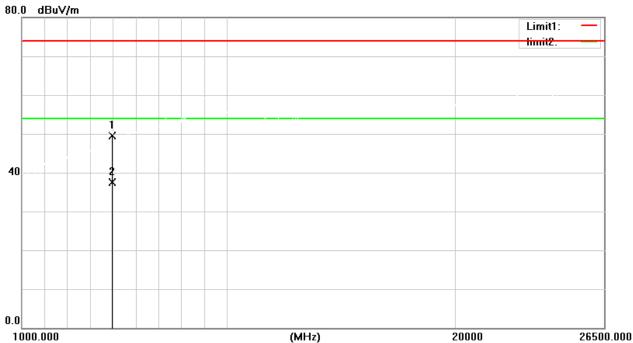


• •		-					(20000.00
	No. I	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height			
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
	1	4	882.000	51.89	-2.16	49.73	74.00	-24.27	peak	150	106		
	2	* 4	882.000	40.60	-2.16	38.44	54.00	-15.56	AVG	150	106		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_1Mbps



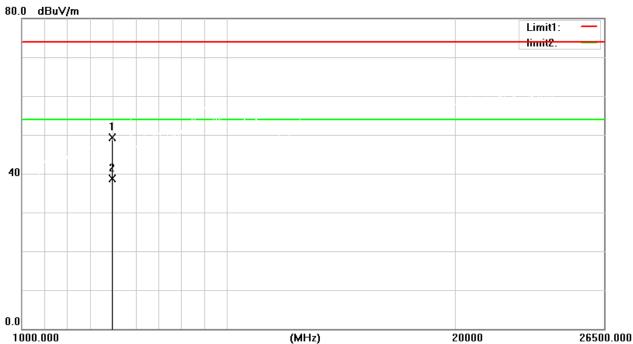
10	0.00	00					(MHz))			26500.0		
	No.	М	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height			
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
	1		4960.000	51.17	-1.76	49.41	74.00	-24.59	peak	150	69		
	2	*	4960.000	39.31	-1.76	37.55	54.00	-16.45	AVG	150	69		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_1Mbps

Horizontal



No. Mk. Freq. Reading Level Correct Factor Measurement Limit Limit Over Antenna Height Degree Table Height Degree MHz dBuV dB dBuV/m dB/m dB Detector cm degree Comment 1 4960.000 50.99 -1.76 49.23 74.00 -24.77 peak 150 81 2 * 4962.000 40.45 -1.76 38.69 54.00 -15.31 AVG 150 81	000).00)0					(MHz)				20000		265	500.00
1 4960.000 50.99 -1.76 49.23 74.00 -24.77 peak 150 81	N	No.	Mk	. Freq.					Over						
<u> </u>				MHz	dBuV	dB	dBuV/m	dB/m	dΒ	Detector	cm	degree	Comment		_
2 * 4962.000 40.45 -1.76 38.69 54.00 -15.31 AVG 150 81	_	1		4960.000	50.99	-1.76	49.23	74.00	-24.77	peak	150	81			_
		2	*	4962.000	40.45	-1.76	38.69	54.00	-15.31	AVG	150	81			_

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2402 MHz_CH00_3Mbps

Vertical



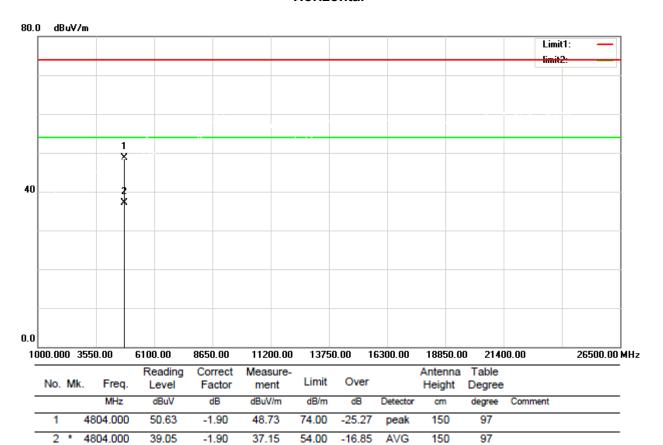
							·····						
•	No.	Mk	. Freq.			Measure- ment	Limit	Over		Antenna Height			
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
•	1		4804.000	51.37	-1.90	49.47	74.00	-24.53	peak	150	78		
	2	*	4804.000	40.59	-1.90	38.69	54.00	-15.31	AVG	150	78		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2402 MHz_CH00_3Mbps

Horizontal

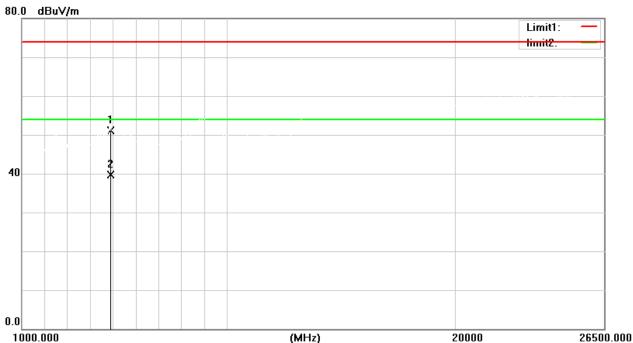


^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_3Mbps

Vertical



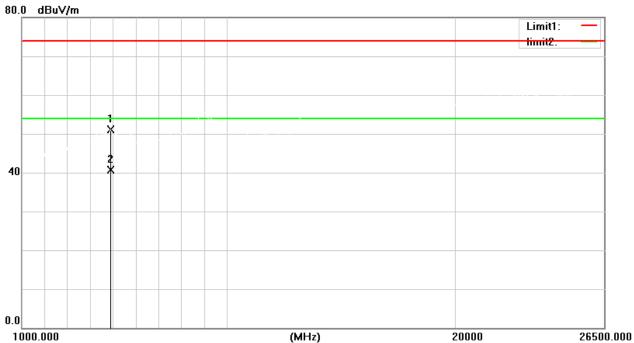
1(100.00	0					(MHz))			20000		26500.0
	No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height			
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
	1		4882.000	53.34	-2.16	51.18	74.00	-22.82	peak	150	109		
•	2	*	4882.000	41.84	-2.16	39.68	54.00	-14.32	AVG	150	109		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2441 MHz_CH39_3Mbps

Horizontal



ו.טטט.ו	JUU					(MH	z)			20000		26500
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height			_
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
1		4882.000	53.34	-2.16	51.18	74.00	-22.82	peak	150	88		
2	*	4882.000	42.83	-2.16	40.67	54.00	-13.33	AVG	150	88		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_3Mbps

Vertical



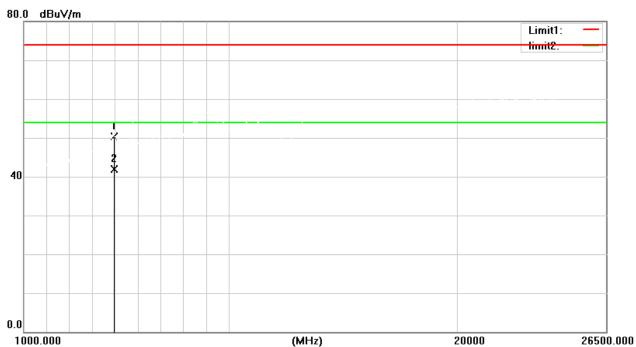
11	00.00	0					(MHz))			20000		26500.00
•	No. M	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height			
•			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
•	1		4960.000	51.17	-1.76	49.41	74.00	-24.59	peak	150	69		
•	2 '	*	4960.000	39.31	-1.76	37.55	54.00	-16.45	AVG	150	69		

^{*:}Maximum data x:Over limit !:over margin



Test Mode: TX 2480 MHz_CH78_3Mbps

Horizontal



							·····						
•	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		Antenna Height			
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment	
•	1		4960.000	51.99	-1.76	50.23	74.00	-23.77	peak	150	109		
•	2	*	4960.000	43.74	-1.76	41.98	54.00	-12.02	AVG	150	109		

^{*:}Maximum data x:Over limit !:over margin



6 NUMBER OF HOPPING FREQUENCY

6.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247					
Section	Test Item				
15.247(a)(1)(iii) RSS-247 5.1 (d)	Number of Hopping Frequency				

6.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=100 kHz, VBW=300 kHz, Sweep time = Auto.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100kHz
VBW	300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

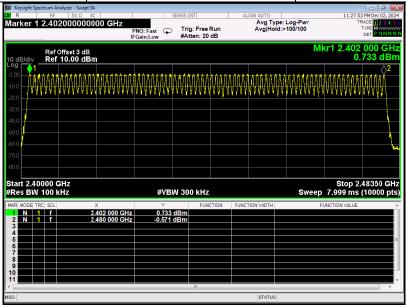
6.4 TEST SETUP



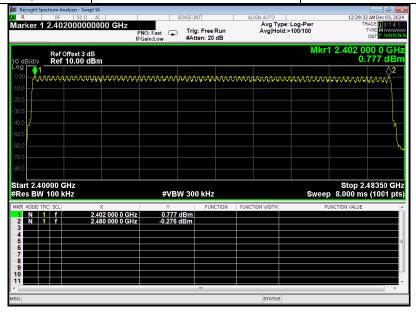
6.5 EUT OPERATION CONDITIONS



	Hopping Mode_1Mbps	
Number of Hopping	Measurement result(CH)	Limit(CH)
Frequency	79	≥15



	Hopping Mode_3Mbps	
Number of Hopping	Measurement result(CH)	Limit(CH)
Frequency	79	≥15





7 AVERAGE TIME OF OCCUPANCY

7.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247							
Section Test Item Limit							
15.247(a)(1)(iii) RSS-247 5.1 (d)	Average Time of Occupancy	0.4sec					

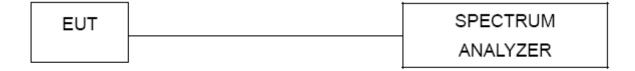
7.2 TEST PROCEDURE AND SETTING

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses
- d. Sweep Time is more than once pulse time
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span
- f. Measure the maximum time duration of one single pulse
- g. Set the EUT for DH1, DH3 and DH5 packet transmitting
- h. Measure the maximum time duration of one single pulse
- i. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds
- k. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds

7.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

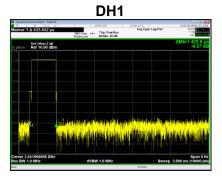
7.4 TEST SETUP

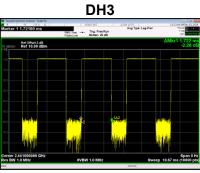


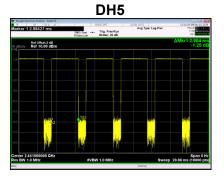
7.5 EUT OPERATION CONDITIONS



TX Mode_1Mbps						
Mode	Channel Frequency	Pulse Time	Dwell Time	Limit		
	(MHz)	(ms)	(ms)	(ms)		
DH1	2441	0.423	135.4	400		
DH3	2441	1.722	275.5	400		
DH5	2441	2.984	318.1	400		









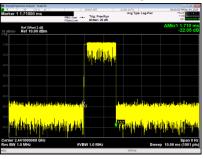


TX Mode_3Mbps						
Mode	Channel Frequency	Pulse Time	Dwell Time	Limit		
	(MHz)	(ms)	(ms)	(ms)		
DH1	2441	0.445	142.4	400		
DH3	2441	1.710	273.6	400		
DH5	2441	3.017	321.6	400		

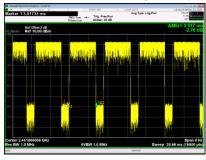
2441MHzDH1



2441MHzDH3



2441MHzDH5





8 HOPPING CHANNEL SEPARATION MEASUREMENT

8.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band 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 the systems operate with an output power no greater than 125 mW.

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span

Video (or Average) Bandwidth (VBW) ≥ RBW

Sweep = Auto

Detector function = Peak

Trace = Max Hold

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	10 kHz
VBW	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

8.4 TEST SETUP

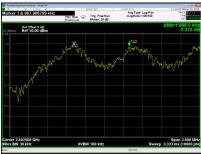


8.5 EUT OPERATION CONDITIONS



TX Mode_1Mbps						
Channel	Frequency	Channel	Limit	Result		
Charmer	(MHz)	Separation(MHz)	(MHz)	Nesuit		
CH00	2402	0.868	>(25KHz or 2/3*20dB	PASS		
Ci ioo	2402	0.000	Bandwidth)	1 700		
CH39	2441	1.000	>(25KHz or 2/3*20dB	PASS		
01139	2441	1.000	Bandwidth)	PAGG		
CH78	2480	0.995	>(25KHz or 2/3*20dB	PASS		
01176	2400	0.395	Bandwidth)	FASS		









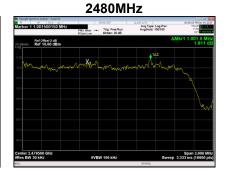




	TX Mode_3Mbps						
Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result			
CH00	2402	0.988	>(25KHz or 2/3*20dB Bandwidth)	PASS			
CH39	2441	0.990	>(25KHz or 2/3*20dB Bandwidth)	PASS			
CH78	2480	1.001	>(25KHz or 2/3*20dB Bandwidth)	PASS			









9 BANDWIDTH TEST

9.1 LIMIT

FCC Part15, Subpart C (15.247)&RSS-247				
Section Test Item				
15.247(a)(1)				
RSS-Gen 6.7	Bandwidth			
RSS-247 5.1 (a)				

9.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30 kHz, VBW=100 kHz, Sweep Time = Auto.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth
RBW	30kHz
VBW	100kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 MEASUREMENT INSTRUMENTS LIST

Ite	m Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	2 Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS



TX Mode_1Mbps						
Channel	Frequency	20dB Bandwidth	99 % Emission Bandwidth	Result		
	(MHz)	(MHz)	(MHz)			
CH00	2402	0.958	0.9244	PASS		
CH39	2441	0.958	0.9240	PASS		
CH78	2480	0.960	0.9251	PASS		

2402MHz Separate Manager to Consequent Mana







TX Mode_3Mbps						
Channel	Frequency	20dB Bandwidth	99 % Emission Bandwidth	Result		
	(MHz)	(MHz)	(MHz)			
CH00	2402	1.247	1.1668	PASS		
CH39	2441	1.261	1.1753	PASS		
CH78	2480	1.270	1.1858	PASS		





2441MHz



2480MHz





10 MAXIMUM OUTPUT POWER

10.1 LIMIT

FCC Part15 , Subpart C (15.247)&RSS-247			
Section Test Item Limit			
15.247(a)(1) RSS-247 5.1 (b)	Maximum Output Power	0.125Watt or 21dBm	

Note:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB band width of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

10.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

10.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

10.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

10.5 EUT OPERATION CONDITIONS



TX Mode_1Mbps				
Channal	Frequency	Output Power	Output Power	Result
Channel	(MHz)	(dBm)	(W)	Result
CH00	2402	1.020	0.001265	PASS
CH39	2441	1.256	0.001335	PASS
CH78	2480 0.301 0.001072 PASS			
Limit	21dBm /0.125W			•







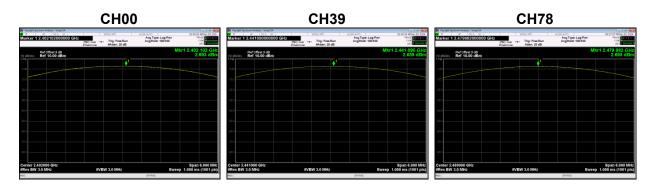
TX Mode_2Mbps					
Channal	Frequency	Output Power	Output Power	Result	
Channel	(MHz)	(dBm)	(W)	Result	
CH00	2402	2.704	0.001864	PASS	
CH39	2441	2.776	0.001895	PASS	
CH78	2480 2.187 0.001655 PASS				
Limit	21dBm /0.125W				







TX Mode_3Mbps					
Channal	Frequency	Output Power	Output Power	Result	
Channel	(MHz)	(dBm)	(W)	Result	
CH00	2402	2.893	0.001947	PASS	
CH39	2441	2.659	0.001845	PASS	
CH78	2480 2.695 0.001860 PASS				
Limit	21dBm /0.125W				





11 CONDUCTED SPURIOUS EMISSION

11.1 LIMIT

For FCC

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 Output Power limits. If the transmitter complies with the Output 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 Section 15.209(a) is not required.

For ISED

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 Output Power limits. If the transmitter complies with the Output 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. Attenuation below the general field strength limits specified in RSS-Gen is not required.

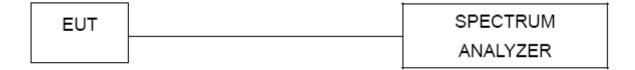
11.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- h Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

11.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A

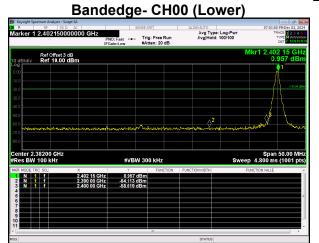
11.4 TEST SETUP

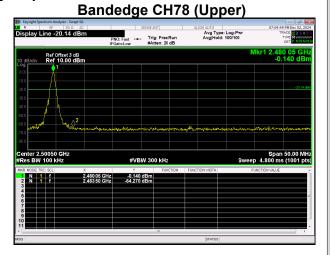


11.5 EUT OPERATION CONDITIONS

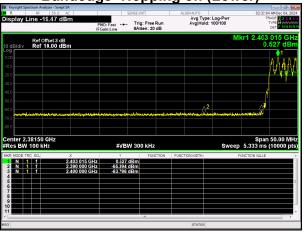


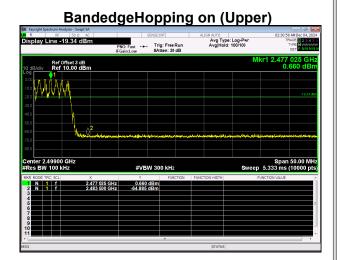
TX Mode_1Mbps





Bandedge- Hopping on (Lower)





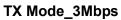
10th Harmonic of the fundamental frequency

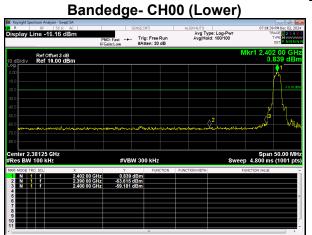


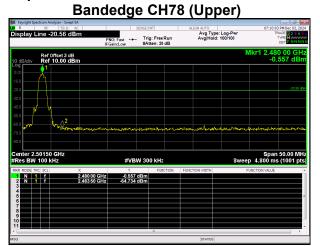




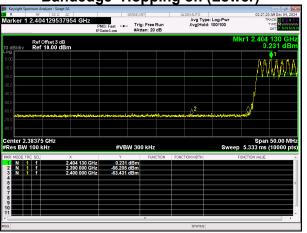


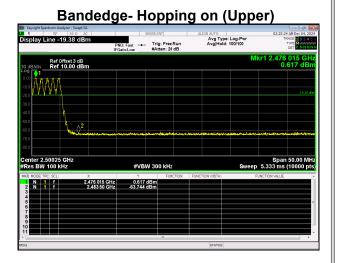




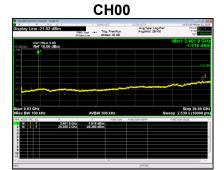


Bandedge- Hopping on (Lower)





10th Harmonic of the fundamental frequency









12 FREQUENCY STABILITY MEASUREMENT

12.1 LIMIT

	RSS-Gen				
Section	Test Item	Limit	Frequency Range (MHz)		
RSS-Gen 6.11	Frequency Stability	Specified in the user's manual	2402-2480		

12.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

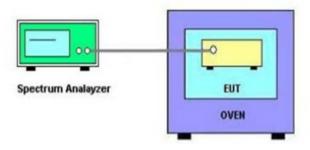
b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulationemissionsbandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

12.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum analyzer	KEYSIGHT	N9010A	MY55150427	2025/05/22
2	Attenuator	Mini-Circuits	BW-S10W2	101109	N/A
3	RF Cable	Mi-cable	C10-01-01-1	100309	N/A
4	Temperature	Guan	-20-130 ℃	GJ1000-10D001	N/A
_	conditioning	Jian.HTH1000	20 100 0	G01000 10D001	14// (
5	DC Power Supply	G.KE	IPR-10010D	010931954	N/A

12.4 TEST SETUP



12.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



	Temperature vs. Frequency Stability		
Voltage	Temperature	Measurement Frequency (MHz)	
	(°C)	2480	
3.7V	0	2480.0044	
3.7 V	25	2480.0044	
	40	2480.0046	
2.9V	25	2480.0046	
Max. Devia	ation (MHz)	0.0046	
Max. Deviation (ppm)		1.85	

Note:2.9V is the end point voltage, and products below 2.9V will cease working.

END OF TEST REPORT