FCC PART 15.247 TEST REPORT

On Behalf of

Zhiwei Robotics Corp.

Room 603, 2 Boyun Road, Pudong, Shanghai P.R.China

FCC ID: 2AIDMLPDF1091

Model: DFR1080, DFR1081, DFR1090, DFR1091

November 2, 2024

This Report Concerns: **Equipment Type:** LattePanda Sigma LBi Li /) **Test Engineer: Report Number:** QCT24JR-0163E-01 Test Date: October 18, 2024 ~ November 2, 2024 Vincent Yang / Vincent Your **Reviewed By:** Kendy Wang / Kur Vur Approved By: Shenzhen QC Testing Laboratory Co., Ltd. Prepared By: East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23008269 Fax: 0755-23726780

Table of Contents

1. GE	NERAL INFORMATION	
1.1		,
1.2	System Test Configuration	
1.3	Test Facility	8
1.4	Measurement Uncertainty	88
2. SUI	MMARY OF TEST RESULTS	<u></u>
3. LIS	T OF TEST AND MEASUREMENT INSTRUMENTS	
3.1	•••••••••••••••••••••••••••••••••••••••	10
3.2	Radiated Emission Test	
3.3	RF Conducted test	
4. AN	TENNA REQUIREMENT	
5. CO	NDUCTED EMISSIONS	13
5.1	Applicable Standard	
5.2	P Limit of the second of the s	
5.3	Test setup	13
5.4	EMI Test Receiver Setup	
5.5	Test procedure	.0 0 ~ ~ ~ ~
5.6		
6. CO	NDUCTED PEAK OUTPUT POWER	18
6.1	Applicable Standard	
6.2	Limit we have a second of the	18
6.3	Test Data	18
6.4	Test Data	18
7. 200	DB EMISSION BANDWIDTH	
7.1	Applicable Standard	6
7.2	Limit A A A A A A A A A A A A A A A A A A A	24
7.3	Test setup	24
° 7.4°	Test Procedure	24
7.5	Test Data Control of the Control of	24
8. CA	RRIER FREQUENCIES SEPARATION	35
8.1		2
8.2	A Limit A A A A A A A A A A A A A A A A A A A	35
8.3		
8.4	Test Procedure	35
8.5		
9. HO	PPING CHANNEL NUMBER	



Shenzhen QC Testing Laboratory Co., Ltd.

9.1	Applicable Standard	38
9.2	Limit	38
9.3	Test setup Test setup	38
9.4		38
9.5	Test Data	38
10. DV	WELLSTIME	41
10.1	Applicable Standard	41
10.2		41
10.3	Test setup	41
10.4	Test Data	41
11. SF	PURIOUS EMISSION IN NON-RESTRICTED & RESTRICTED BANDS	52
11.1	Conducted Emission Method	52
112	Radiated Emission Method	6 74

Revision History of This Test Report

Report Number	Description	Issued Date
QCT24JR-0163E-01	Initial Issue	2024-11-02
Collination Collination	STORE THE CONTRACT OF STREET	SC OF CLESTING
Sind of the light of the light	THE SOUTH OF STREET STREET SOUTH	ELE SHAP TO COLES
STEP TO SET STEP OF SET STEP OF SET SET STEP OF SET	RESIDENCE OF STREET, THE SECOND	Service de la constitución de la
College Colleg	STEPHEN SOLETEN	IN A COLLEGE IN ACC
THE CONTRACTOR OF THE PROPERTY	CO COLETE	LE STATE OF STATES
Contained of the first of the second	The little of the least of the	CONTRACTOR OF STATE O
CO CLETE THE CO CLETE THE MAN	CHELLING COLUMN	SIN NO OF THE THE THE
SHOW OF STREET HE STREET STREET STREET	The or child filling or child filling or	CAS TANKS OF CAST
Ster talling of Ster talling o	E LE THE CONTROL OF LEST HE	o critical and o
TO SO THE THE OF SO THE THE THE	COLUMN CO	AND COLLEGIAN
ENTERNAL OF THE STREET	STAN OF SETESTANDED OF SETESTANDED OF	of the line of the
e the talk of the the true of	CHE THE SERVICE SERVICES OF THE THE SERVICES OF THE SERVICES O	CONTROLLENING OF
	Color the figure of the figure of the	SIN NO OCTUBILITY
	THE AC OF THE PHANCE OF THE THE O	STEETHER OF STEET
College Charles College Charles Charle		NO OF THE STATE OF
The Self little of the little	co of the testing of the testing the office of the testing the office of the testing the testing the office of the testing	HE THE GOLD THE THE
	Sitt Has a college than a college than	en cleaning and contract
CO CLES THE OF CALS THE OF	CHE STATE OF THE STATE OF THE STATE OF	CO OCT LEST THE CO
	TO SELECTION OF THE REAL OF SELECTION OF THE SELECTION OF	TE THE COLUMN

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description:	LattePanda Sigma
Model No.:	DFR1080, DFR1081, DFR1090, DFR1091
Model Difference:	all the models are electrical identical including the same software parameter and hardware design (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.,), same mechanical structure and design (including product enclosure, materials, etc.,), the only differences are capacity of Memory and SSD. All tests were conducted on the models (DFR1091) and the test result was passed. Difference testing was performed on the model (DFR1081), testing Conducted Emission and spurious emission (30MHz - 1GHz).
Tested Model:	DFR1091, DFR1081
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	Internal Antenna
Antenna gain ^{*1} :	1.56dBi max for 2.4GHz Ant1
Power supply:	DC 19V/4.7A (Powered by adapter)
Accessories:	Adapter Model: ADP-90MD H Input:100-240V~, 1.5A, 50-60Hz Output:19V/4.7A, 90.1W Manufacturer: DELTA ELECTRONICS, INC.
Trade Mark:	N/A CHE CHE CONTROL OF THE CONTROL O
Applicant:	Zhiwei Robotics Corp.
Address:	Room 603, 2 Boyun Road, Pudong, Shanghai P.R.China
Manufacturer:	Zhiwei Robotics Corp.
Address:	Room 603, 2 Boyun Road, Pudong, Shanghai P.R.China
Sample No.:	Y24J0163E01WC(DFR1091), Y24J0163E02WC(DFR1081)

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.



1.2 System Test Configuration

1.2.1 Channel List

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	210	2422MHz	41	2442MHz	61	2462MHz
. 2 Z LEST	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
30° CE	2404MHz	23	2424MHz	₀ 43 &	2444MHz	63	2464MHz
5 5 4 6 6	2405MHz	24	2425MHz	44 0	2445MHz	64	2465MHz
\$ 165 M	2406MHz	25	2426MHz	45	2446MHz	65 4	2466MHz
6 6 5	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
30 70 KB	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
W 8 0 0 0	2409MHz	28	2429MHz	6 48°	2449MHz	68	2469MHz
(P) 519 6 C	2410MHz	e 29.5	2430MHz	49	2450MHz	69	2470MHz
2 10 M	2411MHz	30	2431MHz	50 0	2451MHz	o 70 &	2471MHz
211	2412MHz	31 %	2432MHz	51 51 M	2452MHz	71° c	2472MHz
12° .	2413MHz	₹ ⁶ 32	2433MHz	52	2453MHz	720	2473MHz
13, 00	2414MHz	33	2434MHz	530	2454MHz	73	2474MHz
14 6	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
6 15 AM	2416MHz	35	2436MHz	55	2456MHz	.∞ 75° .<	2476MHz
16	2417MHz	36	2437MHz	S 56	2457MHz	76	2477MHz
17 ° . K	2418MHz	37	2438MHz	57	2458MHz	77.0	2478MHz
Ø 18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
. 19	2420MHz	39	2440MHz	£ 59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz	16 oc	CE STATE OF

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

Channel Channel	Frequency	Channel Channel	Frequency
The lowest channel	2402MHz	The middle channel	2441MHz
The Highest channel	2480MHz		STEW OF THE STATE

1.2.2 EUT Exercise Software

1.2.3 Test mode

Transmitting mode: Keep the EUT in continuously transmitting.

[&]quot; DRTU " software was used to test, The power level is Default. The software and power level was provided by the applicant.

1.2.4 Support Equipment

Manufacturer	Description	Model	Remark
Keyboard	TEST THE COLL	6CB78PA# AB2	1.5m, un-shielding, No Core
Mouse Mouse	OF DEAL OF	CN-049PRO	1.5m, un-shielding, No Core
Flat Panel Monitor	DERE	S2721QS	Input: 100-240V~, 50/60Hz, 1.5A

Report No.: QCT24JR-0163E-01 Page 7 of 8

1.3 Test Facility

Test Firm: Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

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

CNAS - Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±1.42 x10 ⁻⁴ %
RF output power, conducted	±1.06dB
Power Spectral Density, conducted	±1.06dB
Unwanted Emissions, conducted	±2.51dB
AC Power Line Conducted Emission	±1.80dB
Radiated Spurious Emission test (9kHz-30MHz)	±2.66dB
Radiated Spurious Emission test (30MHz-1000MHz)	±4.04dB
Radiated Spurious Emission test (1000MHz-18000MHz)	±4.70 dB
Radiated Spurious Emission test (18GHz-40GHz)	±4.80dB
Temperature A A A A A A A A A A A A A A A A A A A	±0.8°C
Humidity of the state of the st	±3.2%
DC and low frequency voltages	±0.1%
Time in the second seco	±5%
Duty cycle South State South S	±5% 6 2

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

2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207 The State of the State o	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (b)(1)	Pass
Dwell Time	15.247 (a)(1)(iii)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

^{2.} All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3. List of Test and Measurement Instruments

3.1 Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1110	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2024.03.14	2025.03.13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	101820	2024.08.06	2025.08.05
3	Artificial Mains Network	SCHWARZBECK	NSLK8126	8126200	2024.08.06	2025.08.05
4	PULSE LIMITER	Rohde&Schwarz	ESH3-Z2	100058	2024.03.14	2025.03.13

3.2 Radiated Emission Test

tem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.6°	EMI Test Receiver	F. R. R. S. S. C. C.	ESIB 7	2277573376	2024.03.14	2025.03.13
2.	EMI Test Receiver	ESPI3	ESPI3	101131	2024.03.14	2025.03.13
3.	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2024.03.14	2025.03.13
4.6	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9168	VULB9168-58	2023.04.01	2025.03.31
5.	Loop Antenna	EMCO	6502	2133	2023.03.18	2025.03.17
6.	horn antenna	SCHWARZBECK	BBHA9120D	2069	2023.04.01	2025.03.31
37. J	Horn Antenna	COM-MW	ZLB7-18-40G -950	12221225	2023.01.12	2025.01.09
8.	Pre-amplifier	MITEQ	TTA0001-18	2063645	2024.03.27	2025.03.26
9.1	Pre-amplifier	COM-MW	DLAN-18000 -40000-02	10229104	2024.03.14	2025.03.13
10.	966 Camber	ZhongYU	9*6*6	ASTATAN OF CH	2023.05.08	2026.05.07

Radiated Emission Measurement Software: EZ EMC Ver QCT03A2 RE+

3.3 RF Conducted test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
Wideband Radio Communication Tester	Rohde & Schwarz	CW500	151583	2024.03.14	2025.03.13
Spectrum Analyzer	ROHDE& SCHWARZ	FSV 40	101458	2024.03.14	2025.03.13
Signal Generator	Agilent	N5182A	MY50141563	2024.03.14	2025.03.13
RF Automatic Test System	MW LET	MW100-RFCB/ MW100-PSB	MW2007004	2024.03.14	2025.03.13
	Wideband Radio Communication Tester Spectrum Analyzer Signal Generator RF Automatic	Wideband Radio Communication Tester Spectrum Analyzer Signal Generator RF Automatic Rohde & Schwarz ROHDE& SCHWARZ Agilent MW	Wideband Radio Communication Tester Spectrum Analyzer Signal Generator Rohde & Schwarz ROHDE& SCHWARZ SCHWARZ FSV 40 N5182A RF Automatic MW RW ROHDE& SCHWARZ MW MW100-RFCB/	Wideband Radio Communication Tester Spectrum Analyzer Signal Generator Rohde & Schwarz ROHDE& SCHWARZ FSV 40 101458 Signal Generator Agilent N5182A MW2007004	Wideband Radio Communication Tester Rohde & Schwarz CW500 151583 2024.03.14 Spectrum Analyzer ROHDE& SCHWARZ FSV 40 101458 2024.03.14 Signal Generator Agilent N5182A MY50141563 2024.03.14 RF Automatic MW MW100-RFCB/ MW2007004 2024.03.14

4. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna: The Ant is Internal Antenna, the best case gain of the antenna is 1.56dBi, reference to the Internal photo for details.

Report No.: QCT24JR-0163E-01 Page 12 of 81

5. Conducted Emissions

5.1 Applicable Standard

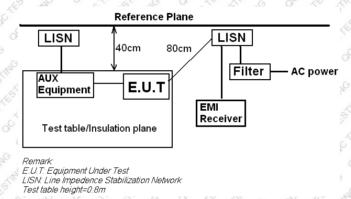
FCC Part15 C Section 15.207

5.2 Limit

_	Limit (dBµV)				
Frequency range (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60 ct 15th	50 5 m			

Note *: The level decreases linearly with the logarithm of the frequency.

5.3 Test setup



5.4 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz. RBW=9 kHz, VBW=30 kHz, Sweep time=auto

5.5 Test procedure

- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
- 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
- 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

5.6 Test Data

Temperature	23°C	Humidity	52%
ATM Pressure	101kPa	Antenna Gain	1.56dBi
Test by	LBi Li	Test result	PASS

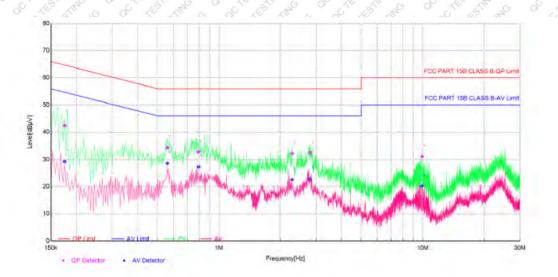
Test voltage: AC 120V/60Hz

Model: DFR1091

Measurement data:

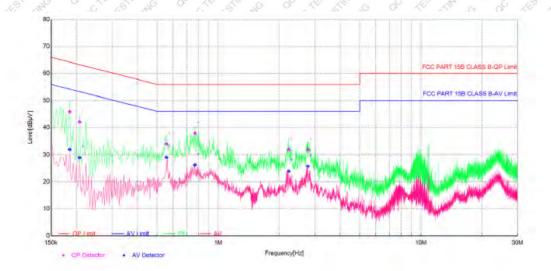
Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of GFSK 2402MHz.

Line:



Final Data List										
NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [d⊟µV]	AV Margin [dB]	Phase	Verdict
1	0.175	10.82	42.45	64.72	22.27	29.26	54.72	25.48	Ĺ	PASS
2	0.5575	10.74	34.26	56.00	21.74	28.58	46.00	17.42	L	PASS
3	0.795	10.73	32.67	56.00	23.33	27.22	46.00	18.78	L	PASS
4	2.288	10.70	32.15	56.00	23.85	22.55	46.00	23.45	L	PASS
5	2.8055	10.70	32.38	56.00	23.62	22.76	46.00	23.24	L	PASS
6	9.929	10.79	31.06	60.00	28.94	20.17	50.00	29.83	L	PASS

Neutral:



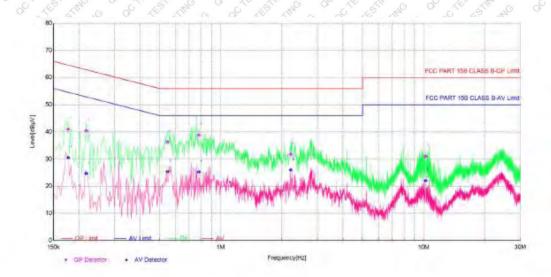
Final Data List										
NO.	Freq. [MHz]	Factor[dB]	QP Value [dBpV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.185	10.49	45.82	64.26	18.44	31.98	54.26	22.28	N N	PASS
2	0.2075	10.52	42.10	63.30	21.20	28.93	53.30	24.37	N	PASS
3	0.555	10.64	33.92	56.00	22.08	28.99	46.00	17.01	N	PASS
4	0.77	10.73	37.93	56.00	18.07	26.22	46.00	19.78	N	PASS
5	2.2295	10.66	31.89	56.00	24.11	23.89	48.00	22.11	N	PASS
8	2.774	10.66	31.81	56.00	24.19	25.76	46.00	20.24	N	PASS

Model: DFR1081

Measurement data:

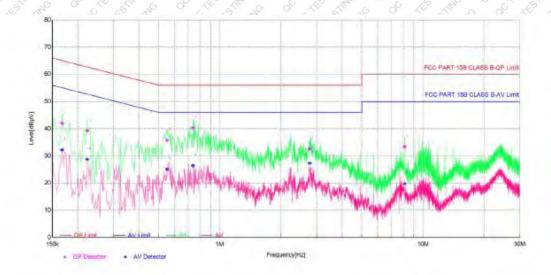
Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of GFSK 2402MHz.

Line:



Final Data List										
NO. Freq. QP QP QP AV AV AV NO. [MHz] Factor[dB] Value Limit Margin Value Limit Margin Pha [dBμV] [dBμV]									Phase	Verdict
1	0.1775	10.63	40.89	64.60	23.71	30.53	54.60	24.07	L	PASS
2	0.2175	10.67	40.40	62.91	22.51	24.68	52.91	28.23	L	PASS
3	0.5475	10.74	36.18	56.00	19.82	25.36	46.00	20.64	L	PASS
4	0.78	10.74	38.81	56.00	17.19	25.25	46.00	20.75	L	PASS
5	2.216	10.69	31.69	56.00	24.31	25.94	46.00	20.06	L	PASS
6	10.217	10.80	30.96	60.00	29.04	22.04	50.00	27.98	L	PASS

Neutral:



Final Data List										
NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin (dB)	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.1675	10.48	41.97	65.08	23.11	32.17	55.08	22.91	N	PASS
2	0.2225	10.57	39.27	62.73	23.46	28.76	52.73	23.97	N	PASS
3	0.55	10.64	35.72	56.00	20.28	25.10	46.00	20.90	N	PASS
4	0.7375	10.75	40.33	56.00	15.67	26.41	46.00	19.59	N	PASS
5	2.774	10.68	32.51	56.00	23.49	27.32	46.00	18.68	N	PASS
6	8.1155	10.54	33.33	60,00	26.67	19.72	50.00	30.28	N	PASS

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.

6. Conducted Peak Output Power

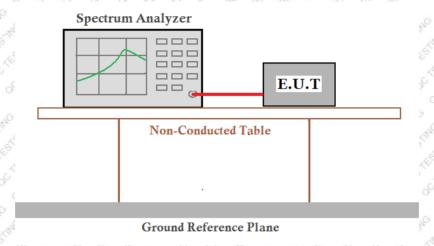
6.1 Applicable Standard

FCC Part15 C Section 15.247 (a)(1)

6.2 Limit

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

6.3 Test setup



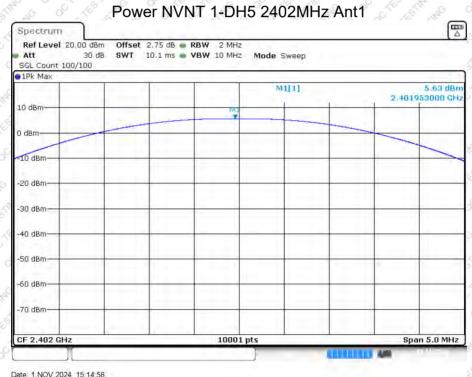
6.4 Test Data

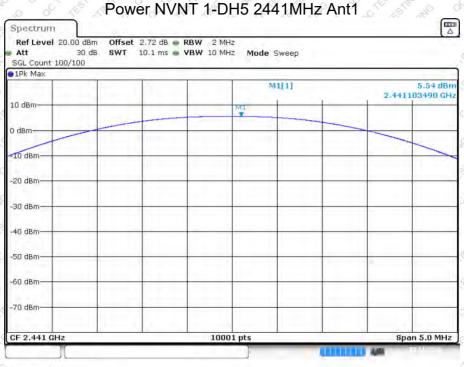
Temperature	23 °C	Humidity	52 %
ATM Pressure	101kPa	Antenna Gain	1.56dBi
Test by	LBi Listing of the state	Test result	PASS

Please refer to following table and plots.

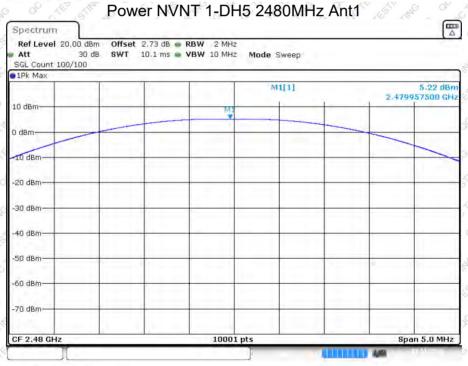
Output Power:

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
STATES STATES	Lowest	5.63	THE OF CASE STATE	of ettingstime of
GFSK	Middle	5.54	20.97	Pass
The South	Highest A	5.22	CITY THE THE OF OF THE	STREET CO OF THE THAT
ISTANCE OF S	Lowest	5.41	of the little of	CHE SHIP OF THE
π/4-DQPSK	Middle Middle	5.31	20.97	Pass
OF OF THE THE	Highest	5.32	STAR OF THE STAR	Le de la lestima de
	Lowest	6 × 5.51 6	THE THING OF SELECTION	THE GOLD STREET
8-DPSK	Middle	5.25	20.97	Pass
TESTING OF	Highest	5.45	C C'ETES STAR	SO CHE STIME TO SOIT

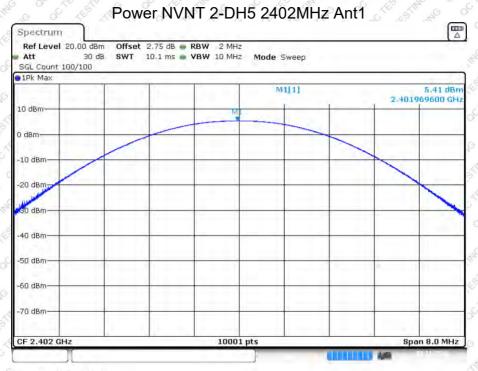




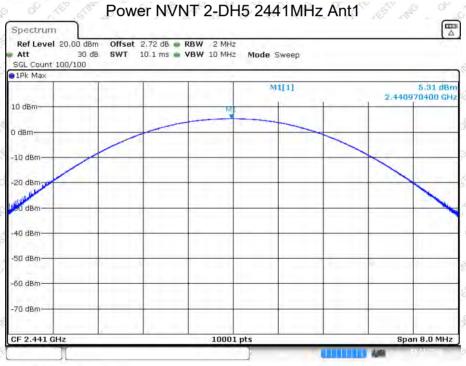




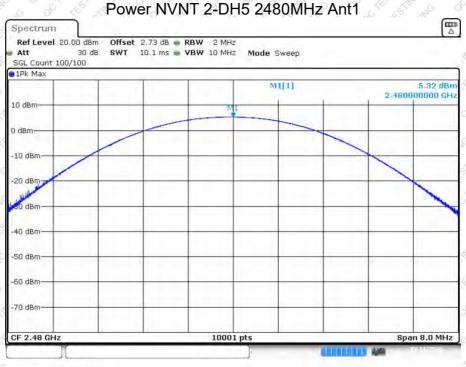
Date: 1.NOV.2024 15:19:02



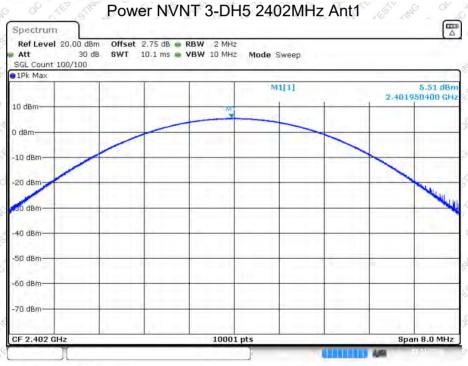
Date: 1.NOV.2024 15:25:10



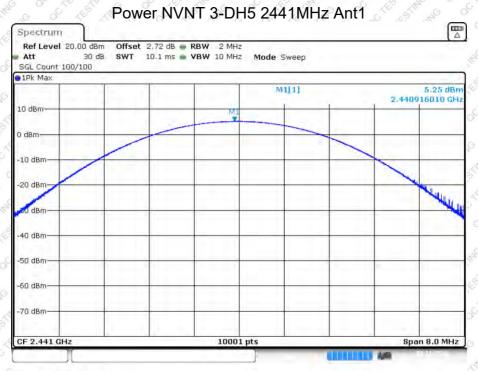
Date: 1.NOV.2024 15:25:36







Date: 1.NOV.2024 15:31:30



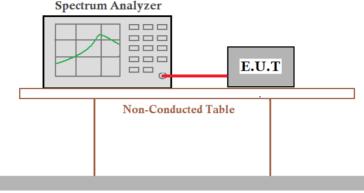
Date: 1.NOV.2024 15:31:55



Date: 1.NOV.2024 15:32:30

7. 20dB Emission Bandwidth

- 7.1 Applicable Standard FCC Part15 C Section 15.247 (a)(1)
- 7.2 Limit N/A
- 7.3 Test setup



Ground Reference Plane

7.4 Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

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).

7.5 Test Data

Temperature	23 °C 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Humidity	52 %
ATM Pressure	101kPa	Antenna Gain	1.56dBi
Test by	LBILL ST.	Test result	PASS

Please refer to following table and plots.

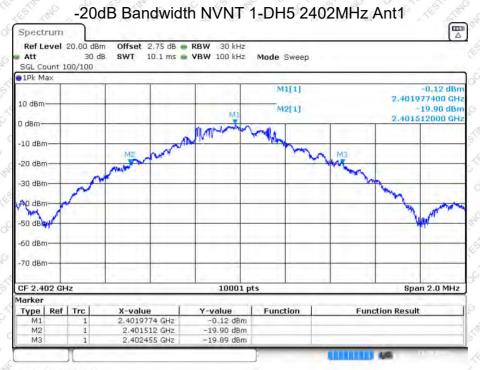
Measurement Data

Toot CH	20dB Er	20dB Emission Bandwidth (MHz)					
Test CH	GFSK	π/4-DQPSK	8-DPSK	Result			
Lowest	0.943	2 1.456	6 . 47 . 6	THE STATE OF STATE			
Middle	0.95	51 1.44 5 5 T	1.495	Pass			
Highest	0.949	1.439	1.473	AC OF THE THE			

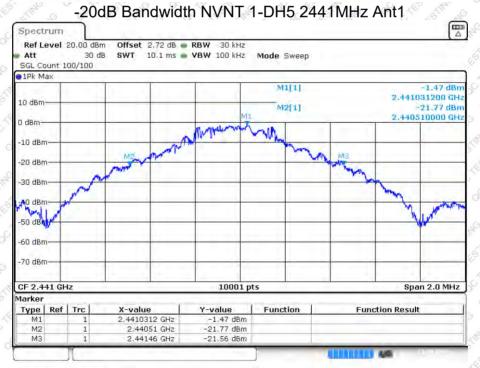
3	Toot CU	Dogult			
Test CH		GFSK	π/4-DQPSK	8-DPSK	Result
2	Lowest	0.885	1.369	1.368	STING OF STREET
X. (C)	Middle	0.882	© 61.362 € 3	ر آھي. 1.36 <u>۾ آھي</u>	Pass
0	Highest	0.892	1.364	1.357	of Chilisting of

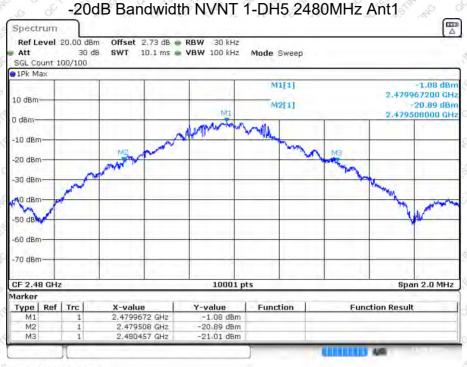
Report No.: QCT24JR-0163E-01 Page 25 of 8

-20dB Bandwidth:

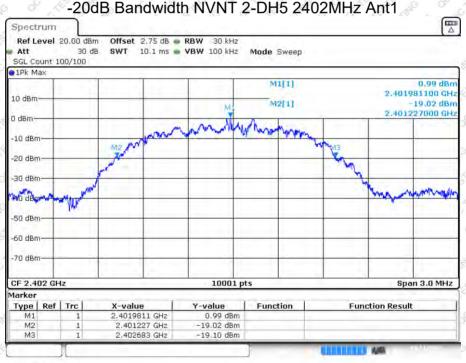


Date: 21.OCT.2024 17:00:39

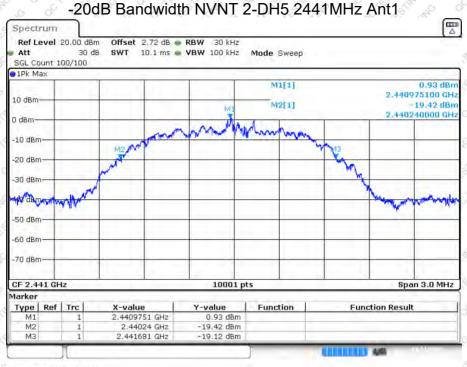




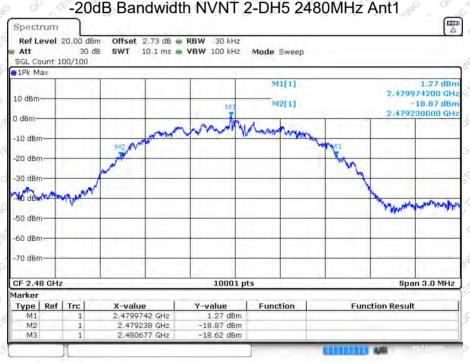
Date: 21.OCT.2024 17:08:17



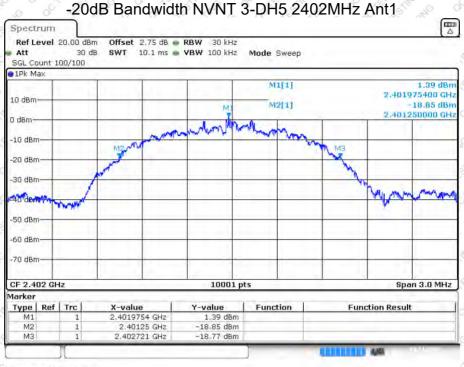
Date: 1.NOV.2024 15:37:07



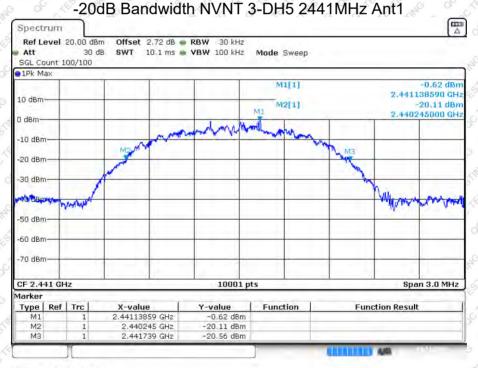
Date: 1.NOV.2024 15:37:27



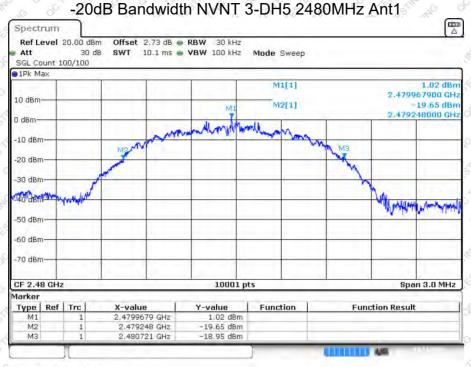
Date: 1.NOV.2024 15:37:46



Date: 1.NOV.2024 15:34:35

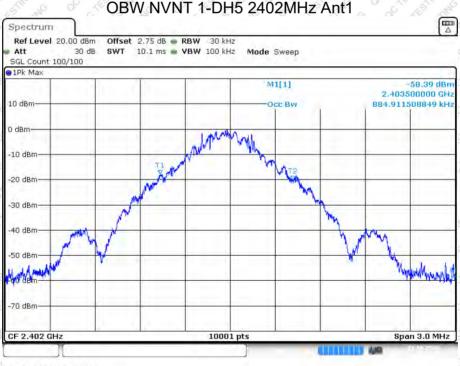


Date: 1.NOV.2024 15:34:09

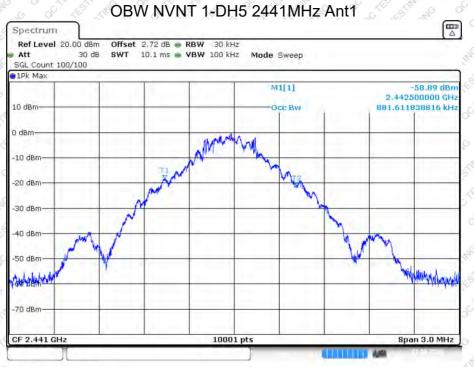


Date: 1.NOV.2024 15:33:28

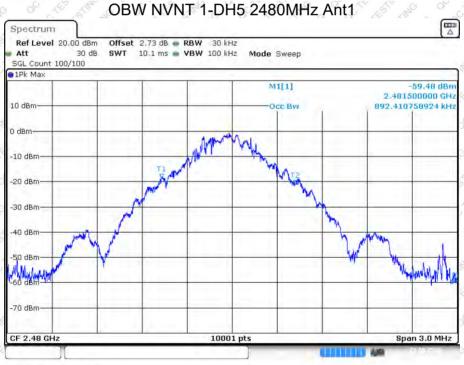
99% Occupied Bandwidth:



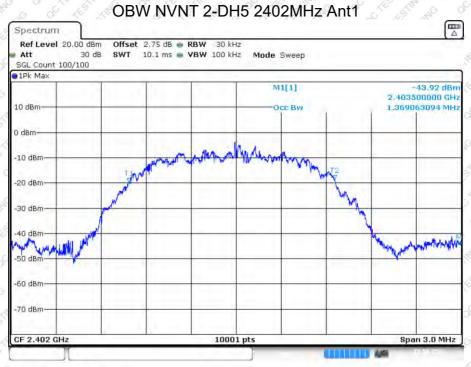
Date: 21.OCT.2024 17:00:33



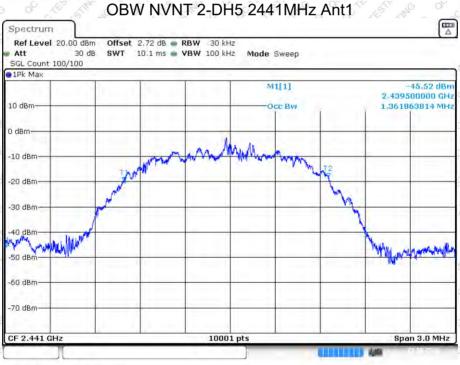
Date: 21.OCT.2024 18:50:28



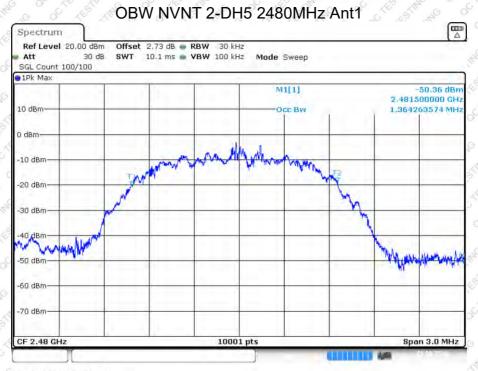
Date: 21.OCT.2024 17:08:10



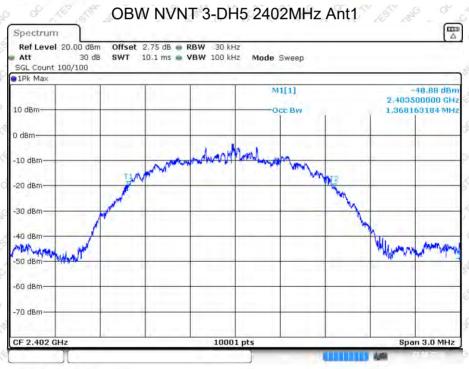
Date: 21.OCT.2024 17:21:56



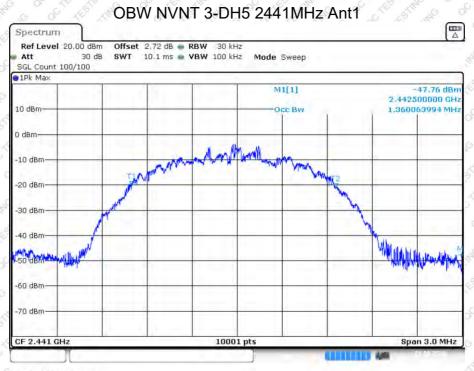
Date: 21.OCT.2024 18:58:08



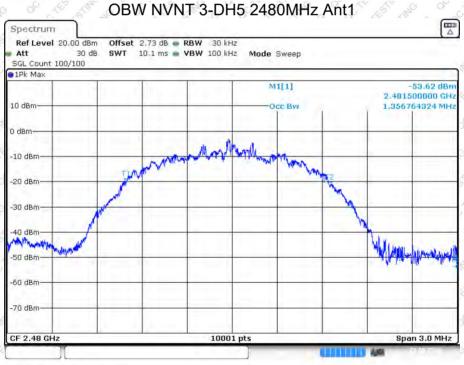
Date: 21.OCT.2024 17:27:45



Date: 21.OCT.2024 17:42:22



Date: 21.OCT.2024 19:05:31



Date: 21.OCT.2024 17:51:45

8. Carrier Frequencies Separation

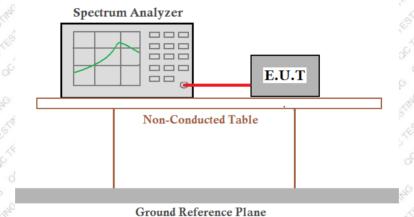
8.1 Applicable Standard

FCC Part15 C Section 15.247 (a)(1)

8.2 Limit

Frequency hopping systems shall have hoping 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 bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

8.3 Test setup



8.4 Test Procedure

- 1. Set the EUT in transmitting mode, max hold the channel.
- 2. Set the adjacent channel of the EUT and max hold another trace.
- 3. Measure the channel separation.

8.5 Test Data

Temperature	23°C (10 g/m) 60	Humidity	52%
ATM Pressure	101kPa	Antenna Gain	1.56dBi
Test by	LBi Li	Test result	PASS

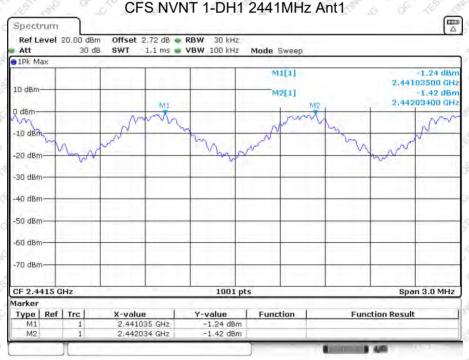
Please refer to following table and plots

Measurement Data

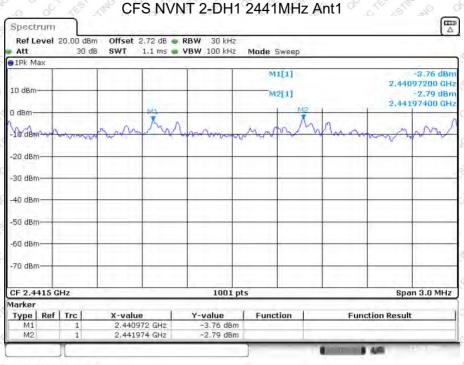
Mode	Test channel	Carrier Frequencies Separation (MHz)	Limit (kHz)	Result
GFSK	Middle	0.999	633.33	Pass
π/4-DQPSK	Middle	(f) (1.002 (c) (c) (d)	970.67	Pass
8-DPSK	Middle	0.999	996.67	Pass

Mode	20dB bandwidth (MHz)	Limit (kHz)	
iviode	(worse case)	(Carrier Frequencies Separation)	
GFSK	6 0.950 C	633.33	
π/4-DQPSK	1.456	970.67	
8-DPSK	1.495	996.67	

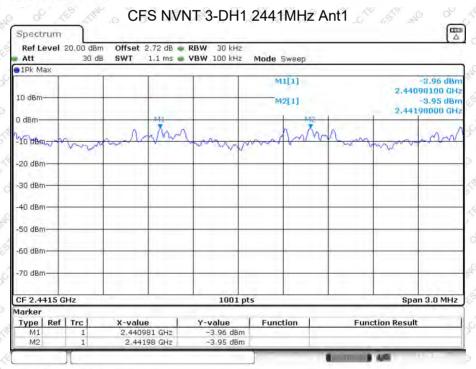
Note: According to section 7.5 Limit = (2/3) * 20dB bandwidth



Date: 21 OCT 2024 18:55:38



Date: 21.OCT.2024 18:59:54



Date: 21.OCT 2024 19:07:17

9. Hopping Channel Number

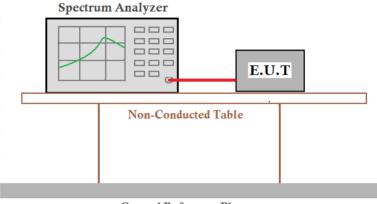
9.1 Applicable Standard

FCC Part15 C Section 15.247 (a) (1) (iii)

9.2 Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

9.3 Test setup



Ground Reference Plane

9.4 Test Procedure

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the max-hold function record the quantity of the channel.

9.5 Test Data

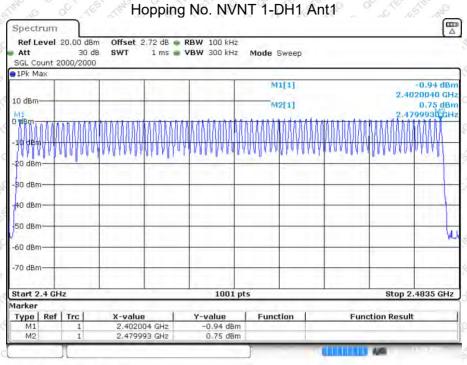
J.	Temperature	23 °C	Humidity	52 %
9	ATM Pressure	101kPa	Antenna Gain	1.56dBi
X o	Test by	LBi Li zin zin zin zin zin zin zin zin zin zi	Test result	PASS

Please refer to following table and plots.

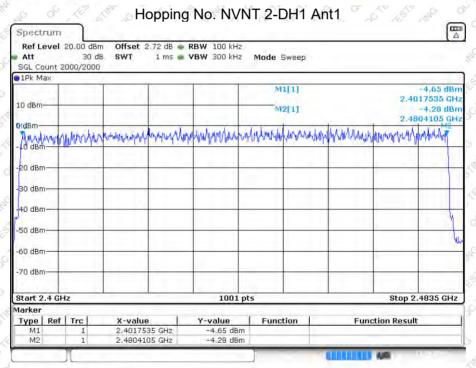
Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK ST A	6 th girth 79 6 the girth	_∞ ° ° ` ⟨° 15*° , ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Pass
π/4-DQPSK	20 6 X 79 6 6 X	15,5 ¹¹ ,80 C	Pass
8-DPSK	79	15 N STE NO 15 NO STE NO	Pass

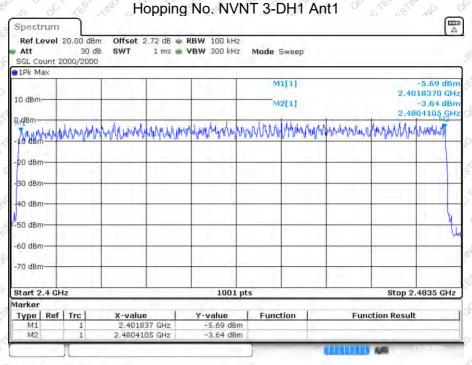
Report No.: QCT24JR-0163E-01



Date: 21.OCT.2024 18:52:44



Date: 21.OCT.2024 19:00:02



Date: 21.OCT.2024 19:07:26

10. Dwell Time

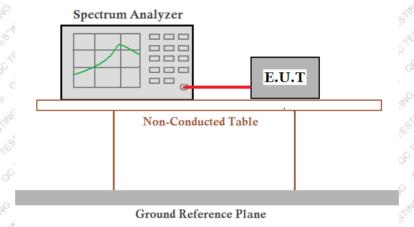
10.1 Applicable Standard

FCC Part15 C Section 15.247 (a)(1)(iii)

10.2 Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.3 Test setup



10.4 Test Data

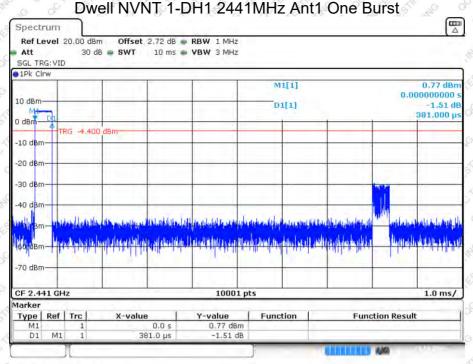
Temperature	23 °C	Humidity	52 %
ATM Pressure	101kPa	Antenna Gain	1.56dBi
Test by	LBjell Mar Son Son All	Test result	PASS

Please refer to following table and plots.

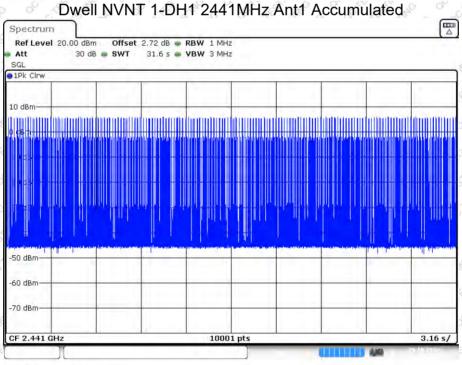


Mode	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Result
g [™] DH1 €	Hop	0.381	317	0.121	<=0.4	PASS
DH3	Hop	1.636	156	0.255	<=0.4	PASS
DH5	Hop	2.885	(15 ¹¹⁾ 111 ° C	0.320	<=0.4	PASS
2DH1	Hop	0.390	316	0.123	<=0.4	PASS
2DH3	Hop	1.641	© 170 [©]	0.279	<=0.4	PASS
2DH5	Hop	2.889	109	0.315	<=0.4	PASS
3DH1	Hop	0.389	316	0.123	<=0.4	PASS
3DH3	Hop	1.640	163	0.267	<=0.4	PASS
3DH5	Hop	2.891	107	0.309	<=0.4	PASS

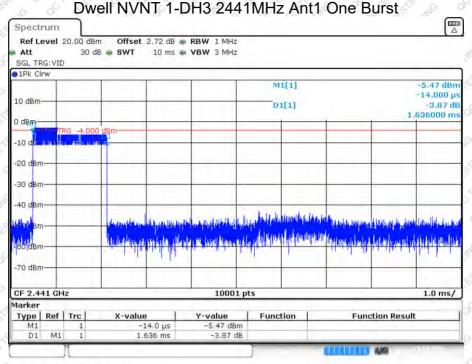
Note: The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s.



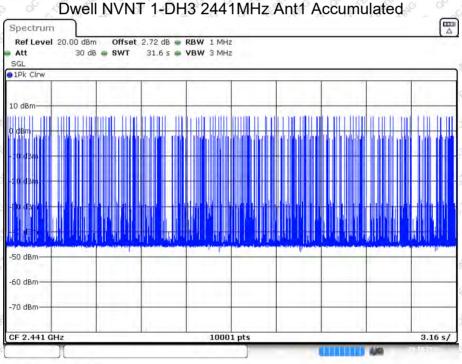
Date: 26.OCT.2024 13:53:22



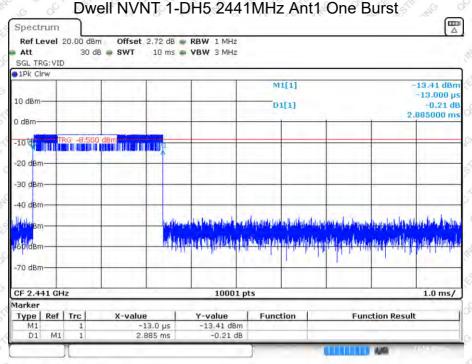
Date: 26.OCT.2024 13:53:55



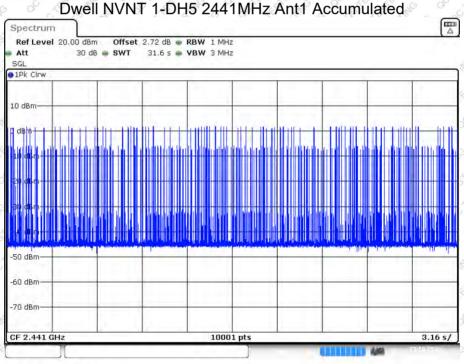
Date: 26.OCT.2024 14:07:46



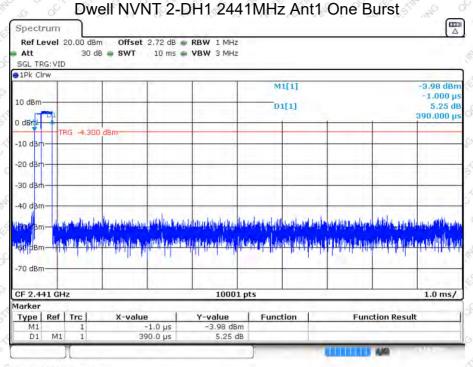
Date: 26.OCT.2024 14:08:19



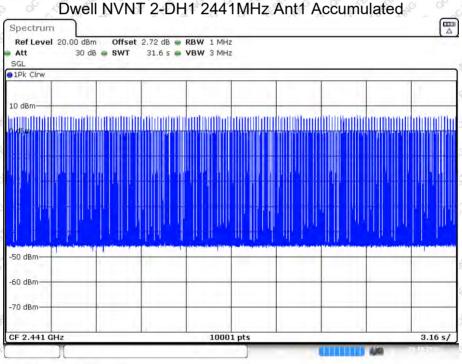
Date: 21.OCT.2024 18:52:49



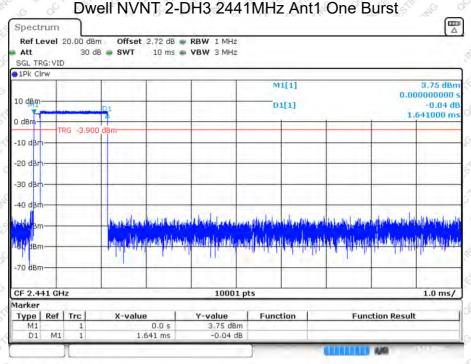
Date: 21.OCT.2024 18:53:22



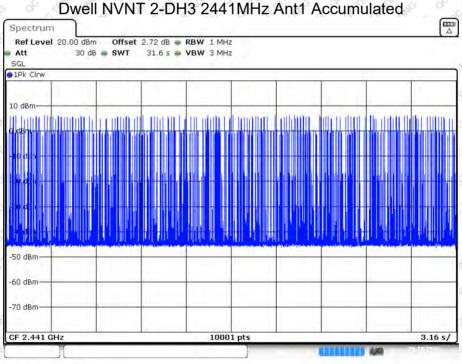
Date: 26.OCT.2024 14:23:29



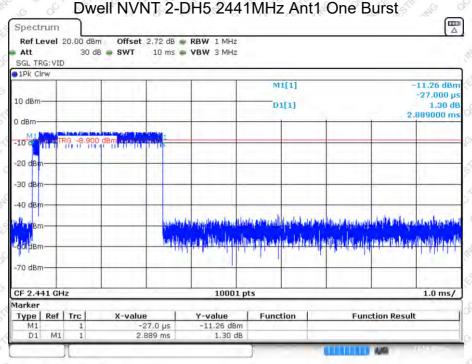
Date: 26.OCT.2024 14:24:02



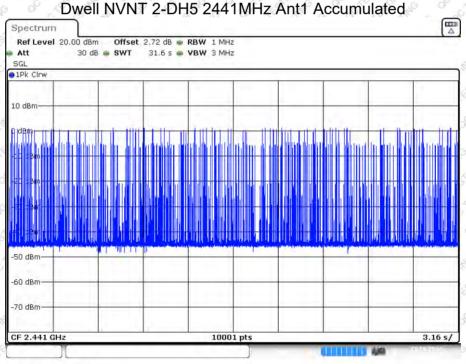
Date: 26.OCT.2024 14:43:15



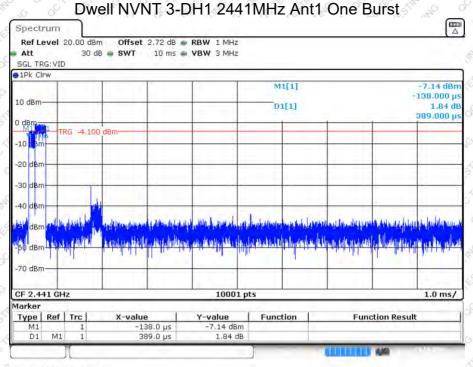
Date: 26.OCT.2024 14:43:48



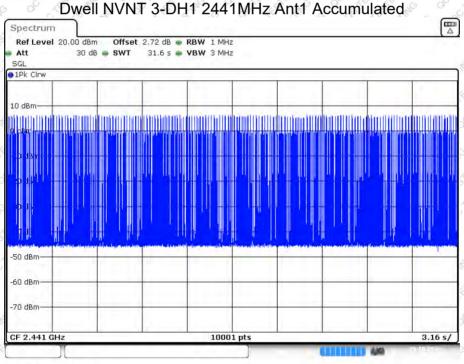
Date: 21.OCT.2024 19:03:06



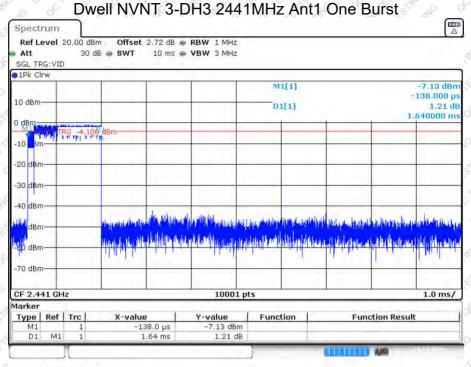
Date: 21.OCT.2024 19:03:39



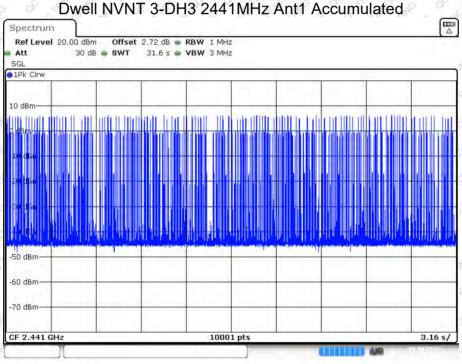
Date: 26.OCT.2024 15:00:45



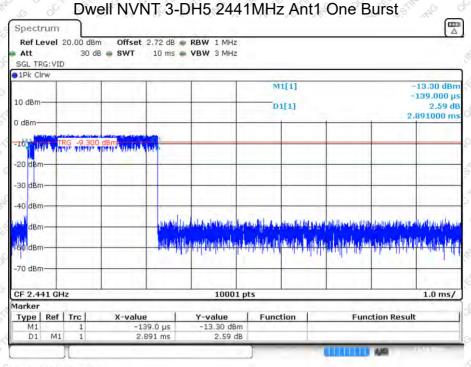
Date: 26.OCT.2024 15:01:18



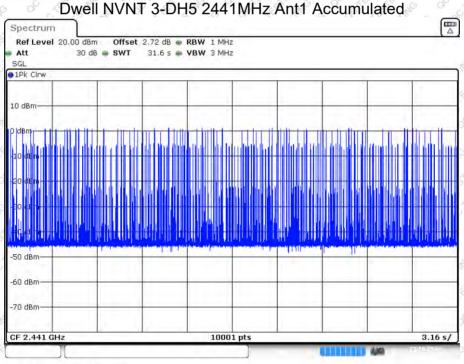
Date: 26.OCT.2024 15:10:42



Date: 26.OCT.2024 15:11:15



Date: 21.OCT.2024 19:07:31



Date: 21.OCT.2024 19:08:04

11. Spurious Emission in Non-restricted & restricted Bands

11.1 Conducted Emission Method

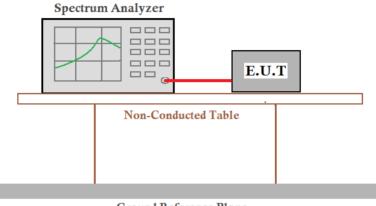
11.1.1 Applicable Standard

FCC Part15 C Section 15.247 (d)

11.1.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

11.1.3 Test setup



Ground Reference Plane

11.1.4 Test Procedure

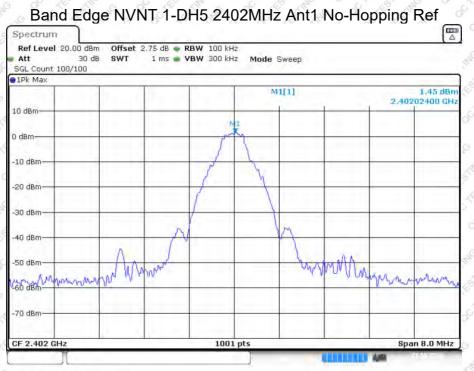
- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect its
 antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured
 frequency within its operating range, and make sure the instrument is operated in its linear range.
- Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span
 including 100 kHz bandwidth from band edge.
- Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- Repeat above procedures until all measured frequencies were complete.

11.1.5 Test Data

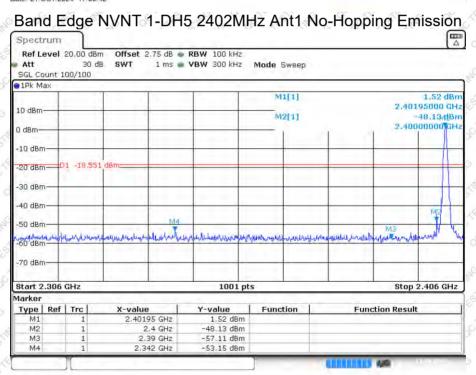
4	Temperature	23°C	Humidity	51%
1	ATM Pressure	101kPa	Antenna Gain	1.56dBi
S	Test by	LBi Lixa in the contract of th	Test result	PASS

Please refer to following plots.

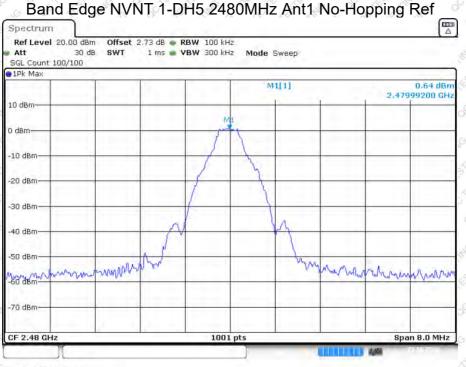
Report No.: QCT24JR-0163E-01



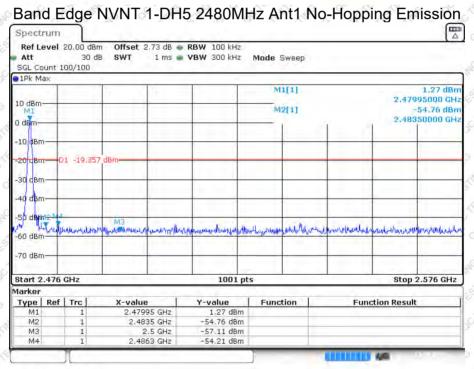
Date: 21.OCT.2024 17:00:42



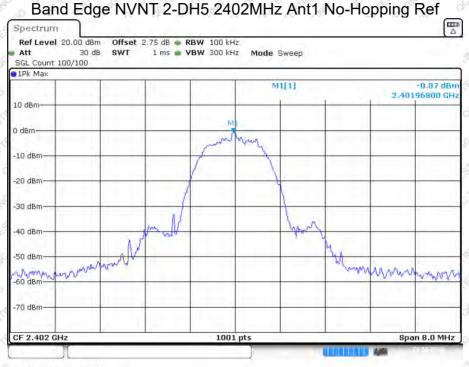
Date: 21.OCT.2024 17:00:44



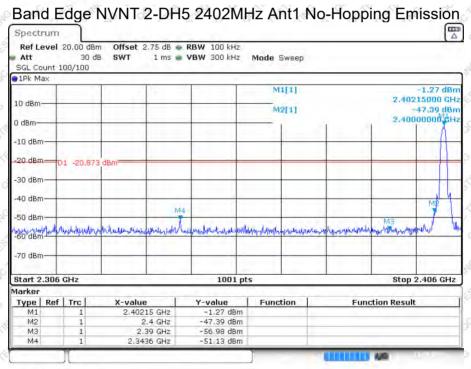




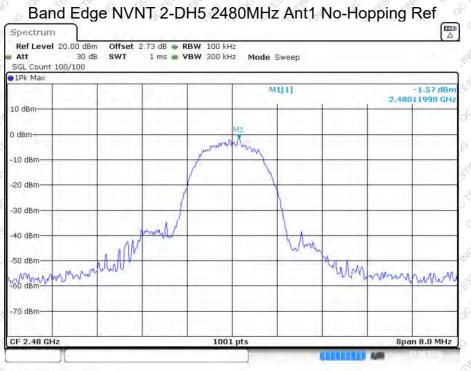
Date: 21.OCT.2024 17:08:22



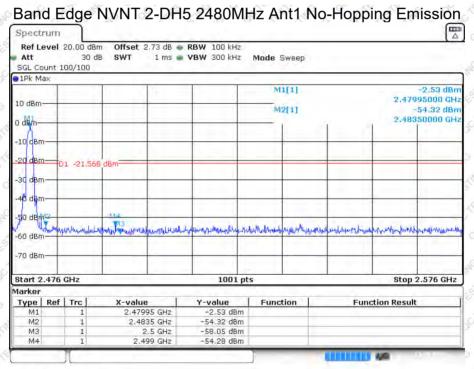




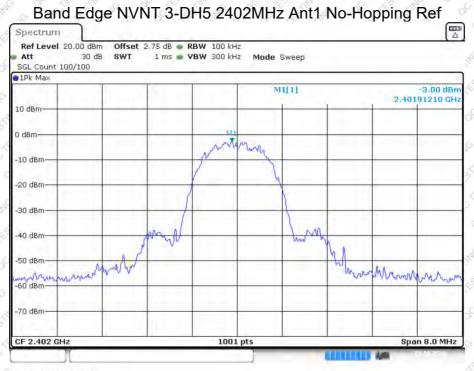
Date: 21.OCT.2024 17:22:10



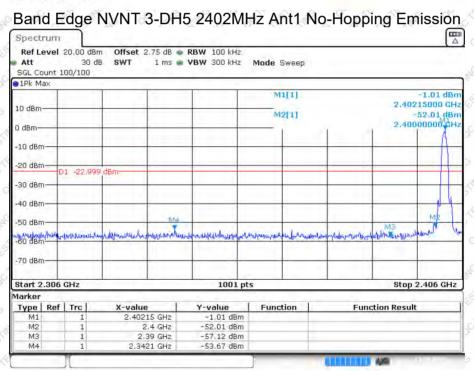




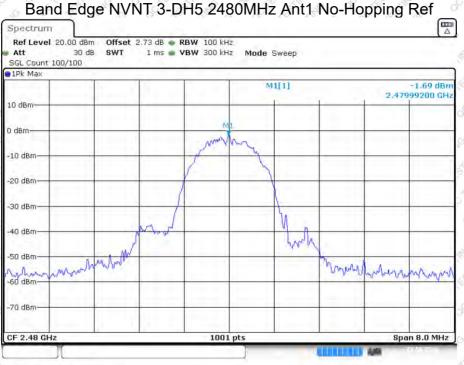
Date: 21.OCT.2024 17:27:59



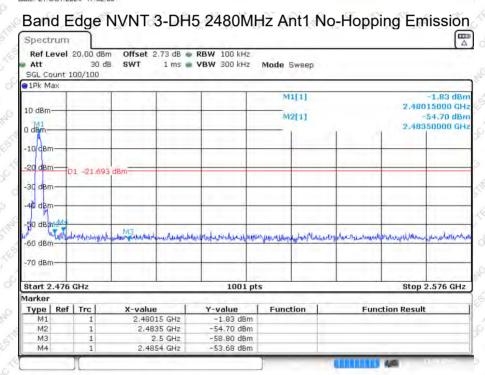
Date: 21.OCT.2024 17:42:41



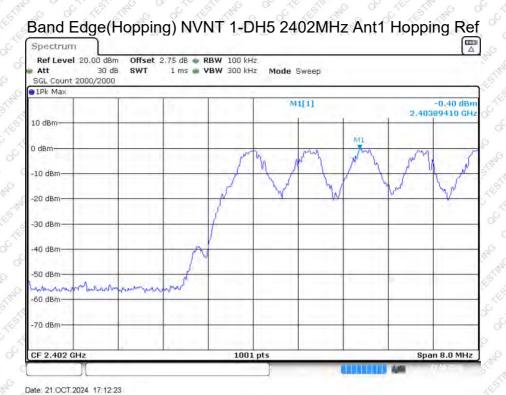
Date: 21.OCT.2024 17:42:43



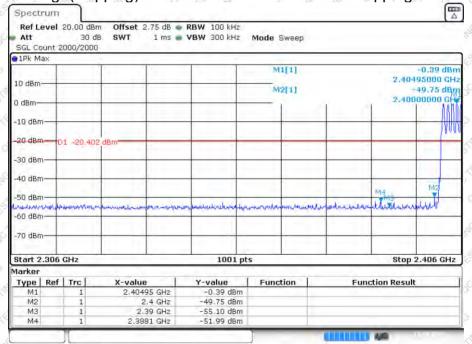




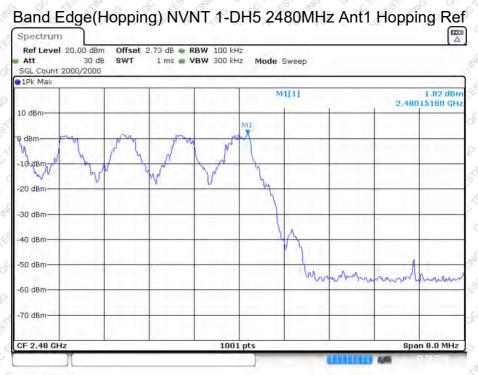
Date: 21.OCT.2024 17:52:07





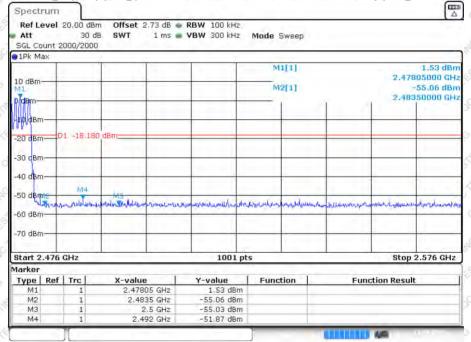


Date: 21 OCT 2024 17:12:34

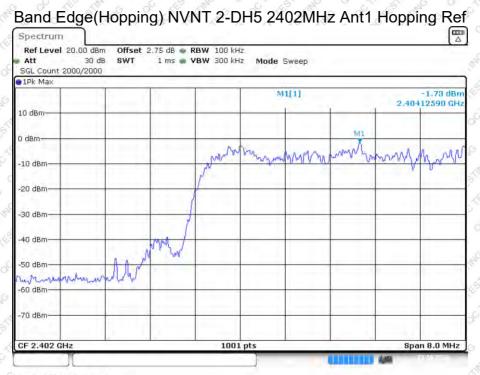


Date: 21.OCT.2024 17:16:47

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

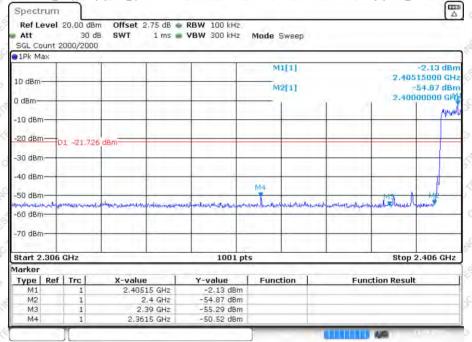


Date: 21.OCT.2024 17:16:53

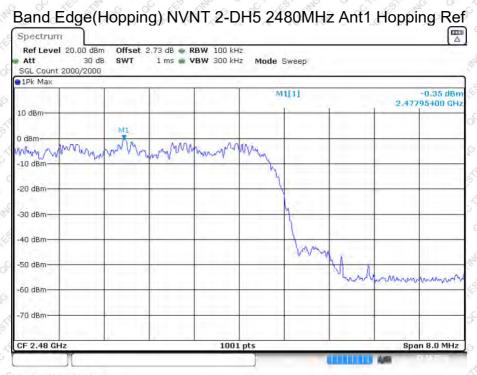


Date: 21.OCT.2024 17:31:23

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

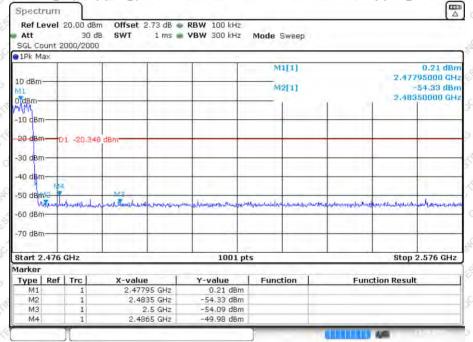


Date: 21.OCT.2024 17:31:34

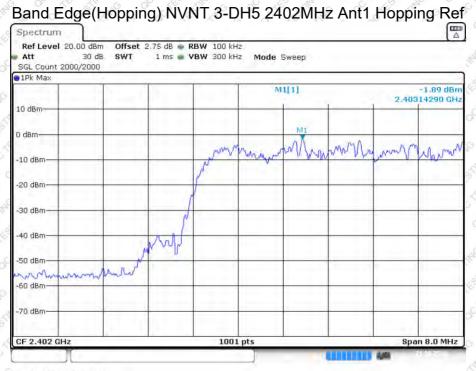


Date: 21.OCT.2024 17:36:32

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

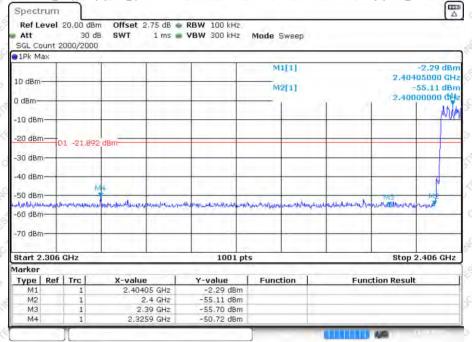


Date: 21.OCT.2024 17:36:37

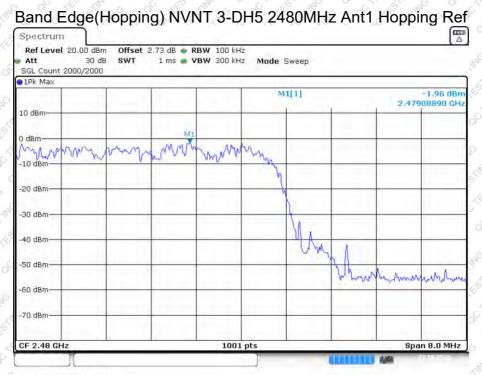


Date: 21.OCT.2024 17:55:26

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

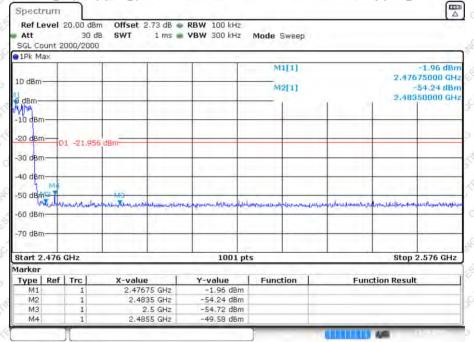


Date: 21.OCT.2024 17:55:36

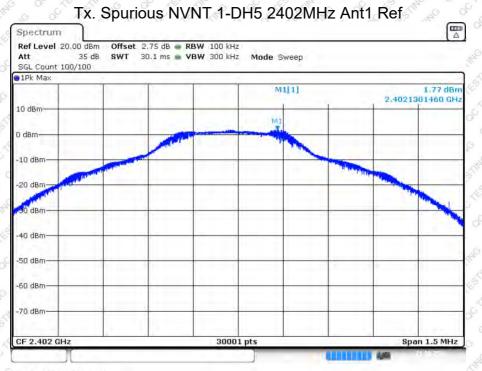


Date: 21.OCT.2024 17:59:52

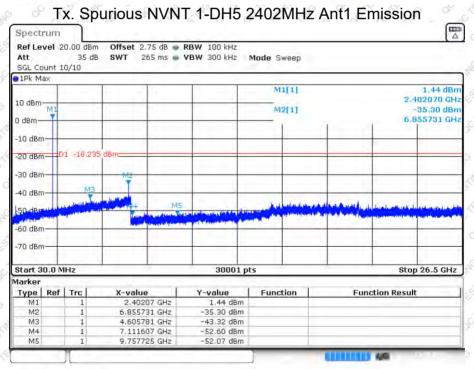
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



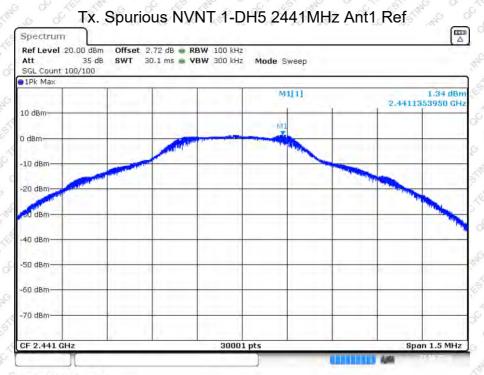
Date: 21.OCT.2024 17:59:57



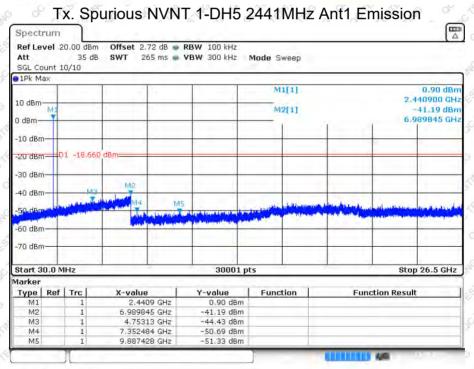
Date: 21.OCT.2024 17:04:02



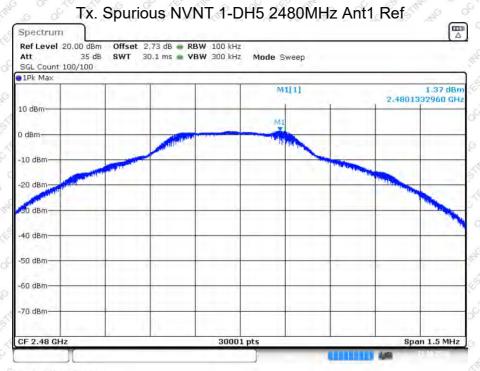
Date: 21.OCT.2024 17:04:14



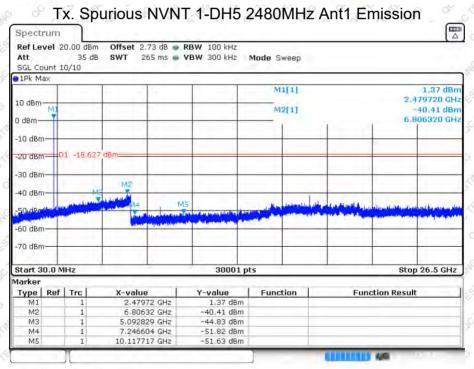
Date: 21.OCT.2024 18:50:47



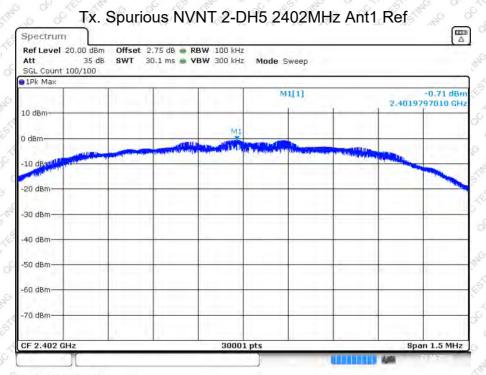
Date: 21.OCT.2024 18:51:00



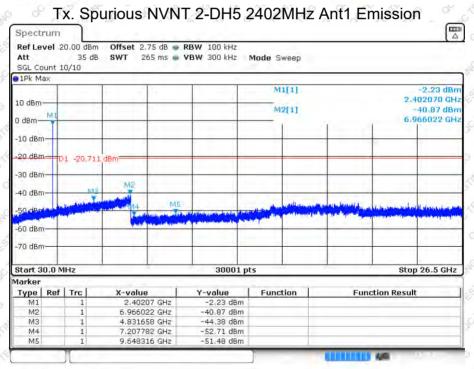
Date: 21.OCT.2024 17:08:31



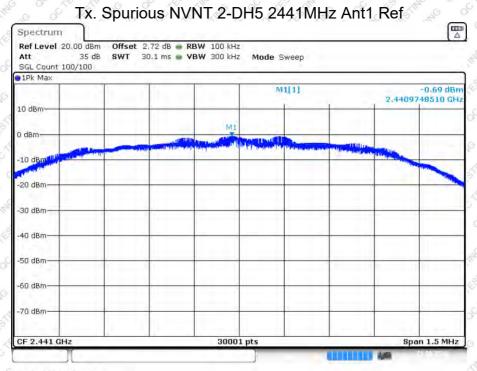
Date: 21.OCT.2024 17:08:43



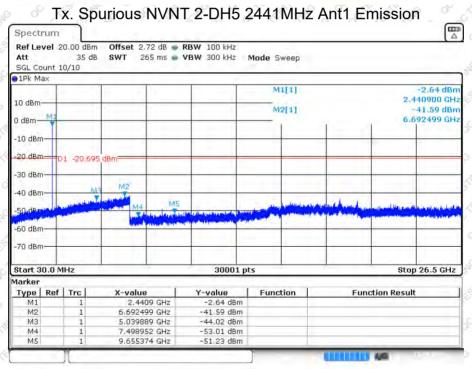
Date: 21.OCT.2024 17:22:52



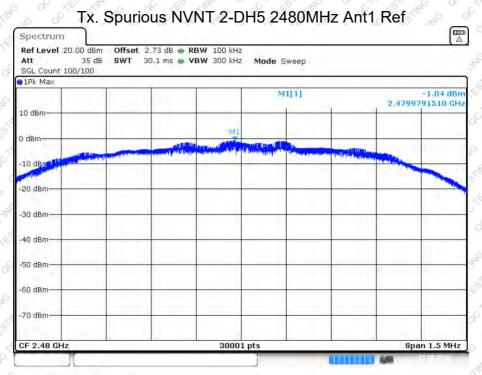
Date: 21.OCT.2024 17:23:04



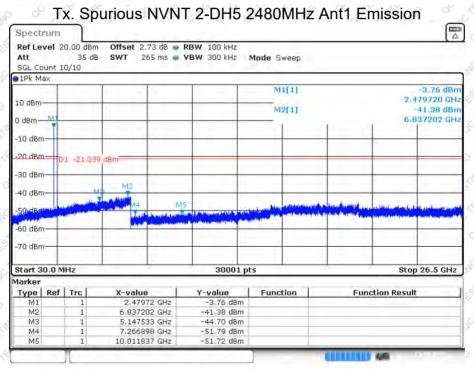
Date: 21.OCT.2024 18:58:28



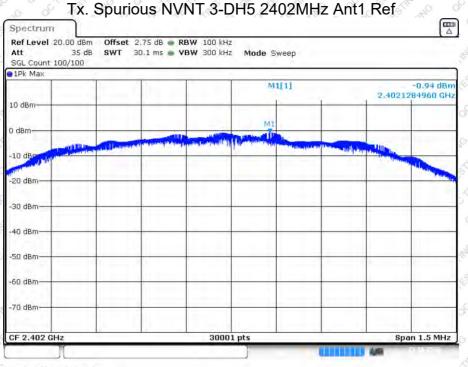
Date: 21.OCT.2024 18:58:41

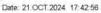


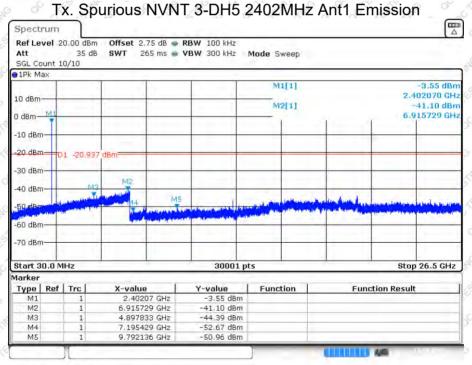
Date: 21.OCT.2024 17:28:08



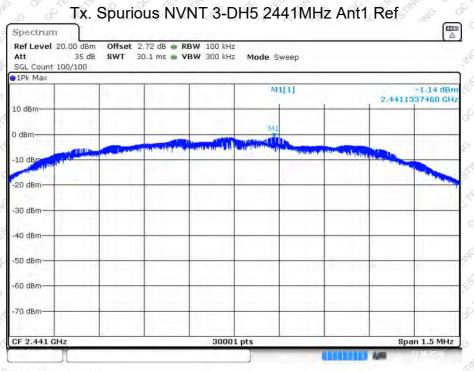
Date: 21.OCT.2024 17:28:21



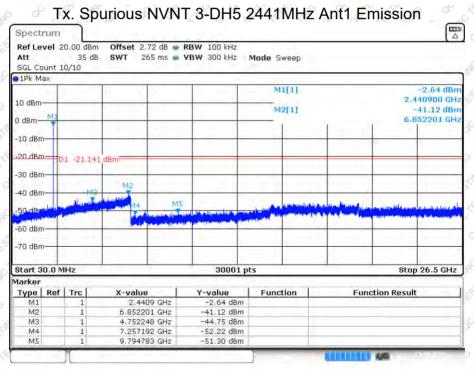




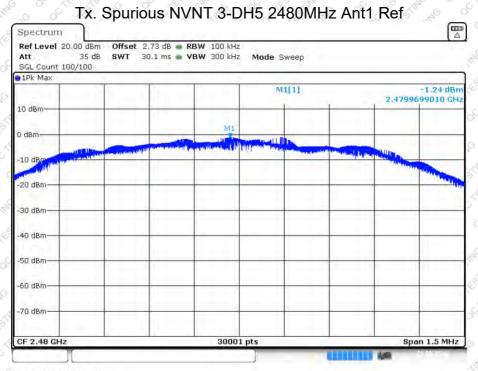
Date: 21.OCT.2024 17:43:08



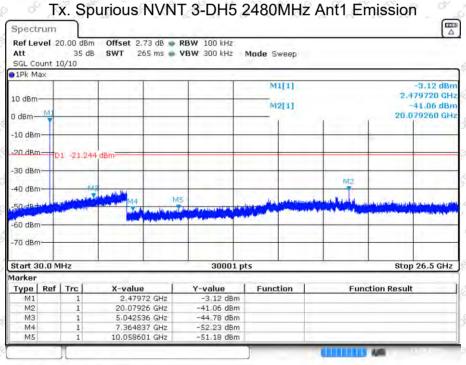
Date: 21.OCT.2024 19:05:52



Date: 21.OCT.2024 19:06:05



Date: 21.OCT.2024 17:52:21



Date: 21.OCT.2024 17:52:34

11.2 Radiated Emission Method

11.2.1 Applicable Standard

FCC Part15 C Section 15.209 and 15.205

11.2.2 Limit

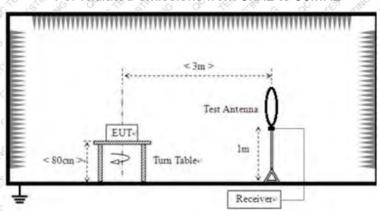
Frequency	y Limit (uV/m)		Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	e QP	300m M
0.490MHz-1.705MHz	24000/F(KHz)	QP O	30m
1.705MHz-30MHz	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	QP O	30m (4" 51")

Frequency	Field Strengths Limits (µV/m at 3 m)	Field Strengths Limits (dBµV/m at 3 m)	Remark	
30 – 88	100	40.0	Quasi-peak	
88 – 216	150 / 150	6 43.5 6 6	Quasi-peak	
216 – 960	(P) (200) (P) (1)	46.0	Quasi-peak	
Above 960	6 X 500 50 X	54.0	Quasi-peak	
Above 10Hz	Secretary Secretary	54.0	Peak	
Above 1GHz	the contraction of	74.0	Average	

Note: $dB\mu V/m = 20log(\mu V/m)$

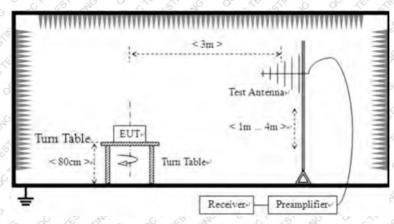
11.2.3 Test setup

For radiated emissions from 9kHz to 30MHz

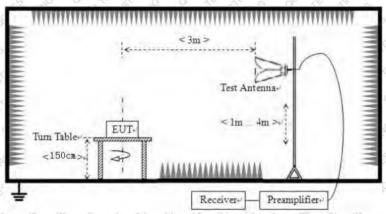


Report No.: QCT24JR-0163E-01

For radiated emissions from 30MHz to1GHz



For radiated emissions from above 1GHz



11.2.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	0 0° 16° 18° 0	QP, QP
150KHz-30MHz	9KHz	30KHz	The of the state	QP IN
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	OP COPIE
Above 1 GHz	1 MHz	3 MHz	TEN TEN CONTRACTOR	Peak
Above I Gnz	1 MHz	10 Hz		Average

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

11.2.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna
 was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to
 360 degrees to find the maximum reading.

Report No.: QCT24JR-0163E-01



- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

11.2.6 Test Data

11	Temperature	26 °C	Humidity	54%
4	ATM Pressure	101kPa	Antenna Gain	1.56dBi
Ó	Test by	LBi Li A A A	Test result	PASS

Test voltage: AC 120V/60Hz

Remarks:

- 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y- axis which it is worse case.
- 2. Data of measurement within frequency range 9kHz-30MHz, 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.

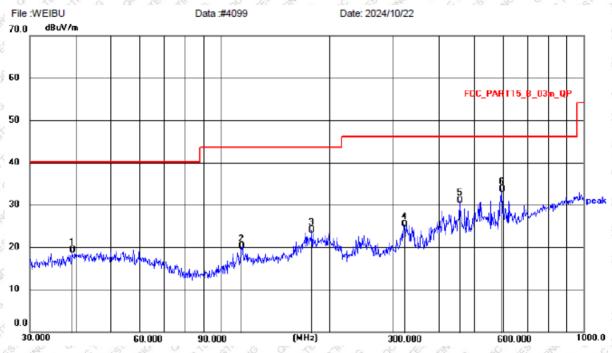
Report No.: QCT24JR-0163E-01 Page 76 of 81

Model:DFR1091

Below 1GHz

Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of GFSK 2402MHz.

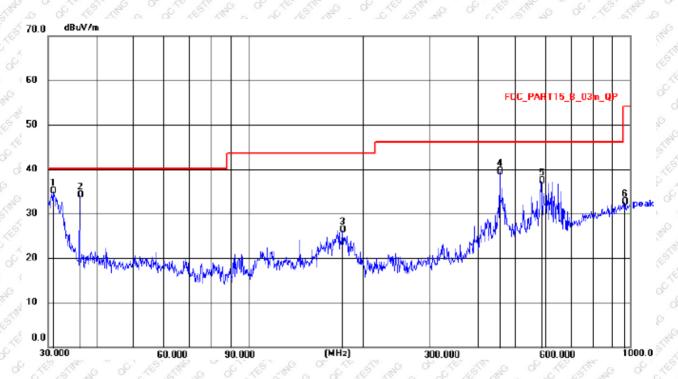
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.1616	4.76	14.60	19.36	40.00	20.64	QP
2	114.1138	7.48	12.76	20.24	43.50	23.26	QP
3	178.7584	11.48	12.56	24.04	43.50	19.46	QP
4	319.9370	10.19	15.21	25.40	46.00	20.60	QP
5	455.9058	11.92	19.06	30.98	46.00	15.02	QP
6 *	597.2234	12.55	21.19	33.74	46.00	12.26	QP



Vertical:



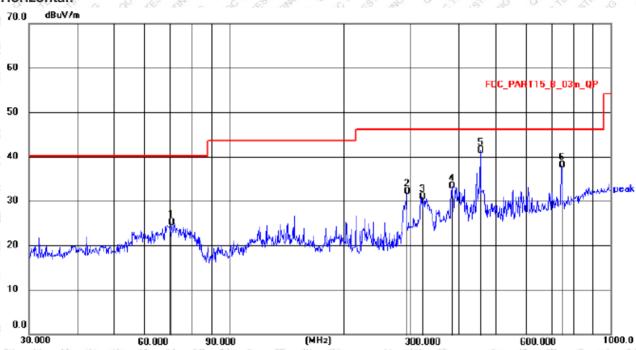
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.8535	22.52	12.60	35.12	40.00	4.88	QP
2	36.2541	20.55	13.71	34.26	40.00	5.74	QP
3	176.8878	13.86	12.48	26.34	43.50	17.16	QP
4	455.9058	20.86	18.69	39.55	46.00	6.45	QP
5	584.7895	16.31	21.05	37.36	46.00	8.64	QP
6	965.5421	5.94	26.70	32.64	54.00	21.36	QP

Model:DFR1081

Below 1GHz

Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of GFSK 2402MHz.

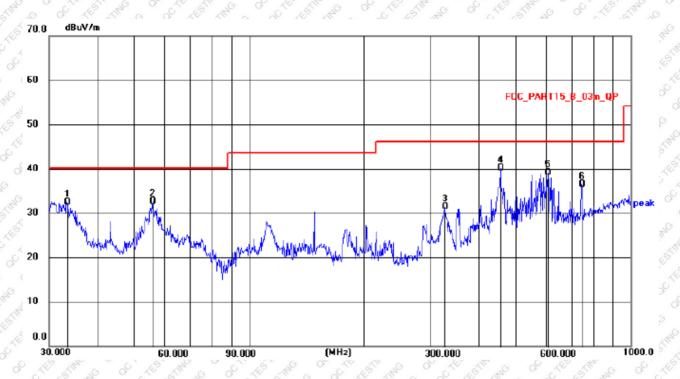
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	70.8315	12.94	12.19	25.13	40.00	14.87	QP
2	292.0583	17.51	14.52	32.03	46.00	13.97	QP
3	319.9370	15.62	15.21	30.83	46.00	15.17	QP
4	383.9318	16.04	17.29	33.33	46.00	12.67	QP
5 *	455.9057	22.35	19.06	41.41	46.00	4.59	QP
6	742.2587	14.41	23.61	38.02	46.00	7.98	QP



Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.3279	19.39	13.09	32.48	40.00	7.52	QP
2	56.0007	18.67	13.93	32.60	40.00	7.40	QP
3	326.7395	16.34	15.15	31.49	46.00	14.51	QP
4 *	455.9057	21.46	18.69	40.15	46.00	5.85	QP
5	607.7866	17.64	21.44	39.08	46.00	6.92	QP
6	742.2587	12.81	23.62	36.43	46.00	9.57	QP

Shenzhen QC Testing Laboratory Co., Ltd.

Above 1GHz

Pre-scan all test modes, found worst case at GFSK Mode, and so only show the test result of GFSK Mode.

Test channel: Lowest channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
2310	51.87	STELLE HE OF	-11.46	40.41	74	33.59	peak
2310	51.45	STEP VINE	-11.46	39.99	740	34.01	peak
2390	57.81	S S HARE ST	-11.16	46.65	74	27.35	peak
2390	53.88	THE VOICE	-11.16	42.72	74	31.28	peak
4804	51.14	CE LEST HAS CO	-5.98	45.16	74	28.84	peak
4804	52.25	CONTRACTOR OF THE PROPERTY OF	-5.98	46.27	74	27.73	peak

Test channel: Middle channel

E. M.	Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
S	4882	51.83	Solf Hart	· -5.70	46.13	74,11	27.87	peak
3	4882	51.78	NO VERT	-5.70	46.08	74	27.92	peak

Test channel: Highest channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
2483.5	56.11	THE HE SETTE	-10.81	45.30	74	28.70	peak
2483.5	53.22	TESTING OF	-10.81	42.41	74	31.59	peak
2500	56.41	CT HILL	-10.75	45.66	74	28.34	peak
2500	55.25	N A TEST	-10.75	44.50	74	29.50	peak
4960	50.73	STAN THE SELL	-5.45	45.28	^{ال} 74 والآ	28.72	peak
4960	51.23	CHE STAN	-5.45	45.78	5 74 °	28.22	peak

Remarks:

- 1. Level =Receiver Read level + Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- If the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The Man Talling	CA CO		11/1
	THE PAID	OF TEST REPORT	A CA CE
		THE LOST DEDITION	

Report No.: QCT24JR-0163E-01