FCC PART 15.247 TEST REPORT

On Behalf of

hui zhou shi bai li ke ji you xian gong si

Office 401, 4th Floor Building A-1, No. 3 Yuanhui Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China, 516029

FCC ID: 2A4TK-LR7021 Model: LR7021, LR7016, LR7020, LR5005, LR5003, LR8021, LR8010, LR7002, LR7008, LR8008, LR9008

December 13, 2024

This Report Con	the contraction of the second
Test Engineer:	Biti/ Bili/
Report Number:	QCT24KR-2369E-01
Test Date:	December 10~12, 2024
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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description:	LED STRIP LIGHT
Model No.:	LR7021, LR7016, LR7020, LR5005, LR5003, LR8021, LR8010 LR7002, LR7008, LR8008, LR9008
Model Difference:	All models in each series have similar construction with the same diagram circuit and PCB layout, but difference is the commercial demand. All tests were conducted on the models (LR7021) and the test result was passed.
Tested Model:	LR7021 the start the second start start second start
Sample(s) Status:	Engineer sample
Packet Type:	Bluetooth LE(1Mbps, 2Mbps)
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40° co che
Channel separation:	2MHz of the state
Modulation type:	GESK Strand Contraction of the strand of the strand of the strand of the
Antenna Type:	PCB antenna to contracting of the state of t
Antenna gain*1:	1.58dBi C Chi La Mar C Chi La Mar C C Chi La Mar C C C C C C C C C C C C C C C C C C C
Power supply:	DC 5V (Powered by USB Port)
Trade Mark:	Tatazone to che statute of the statu
Applicant:	hui zhou shi bai li ke ji you xian gong si 🖉 🖉 🖉 🖉
Address:	Office 401, 4th Floor Building A-1, No. 3 Yuanhui Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province China, 516029
Manufacturer:	hui zhou shi bai li ke ji you xian gong si
Address:	Office 401, 4th Floor Building A-1, No. 3 Yuanhui Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province China, 516029
Sample No.:	Y24K2369E01WC

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

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1.2 System Test Configuration

1.2.1 Channel List

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	× 110 ×	2422 MHz	21	2442 MHz	31	2462 MHz
· 2 P	2404 MHz	12	2424 MHz	22	2444 MHz	× 320°	2464 MHz
* 3° ¢*	2406 MHz	13 0	2426 MHz	o 23 🖉	2446 MHz	33	2466 MHz
5 4 6	2408 MHz	6 14 J	2428 MHz	24 0	2448 MHz	34	2468 MHz
18° 5.11°	2410 MHz	15	2430 MHz	25	2450 MHz	° 35° si	2470 MHz
6	2412 MHz	16 °	2432 MHz	26	2452 MHz	36	2472 MHz
\$ 1 K	2414 MHz	^ر 17 °	2434 MHz	27	2454 MHz	37 0	2474 MHz
1 8° 2	2416 MHz	18 0	2436 MHz	ی 28	2456 MHz	× 38 °	2476 MHz
ST 9.0	2418 MHz	6 19° x	2438 MHz	29 0	2458 MHz	39	2478 MHz
2 × 10 × 10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

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	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

1.2.2 EUT Exercise Software

" PhyPlusKit " exercise software was used to test, The power level is 3F. The software and power level was provided by the applicant.

1.2.3 Support Equipment

2 0	Manufacturer	Description	Model	Remark	e.
14 M	VIVO S	Adapter	DC 5V,2A		Q

1.2.4 Test mode and test voltage

Transmitting mode: Keep the EUT in continuously transmitting. Test voltage: AC 120V/60Hz

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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)	o o ∕o ±4.70 dB o √o _o
Radiated Spurious Emission test (18GHz-40GHz)	±4.80dB
Temperature	±0.8°C
Humidity	±3.2%
DC and low frequency voltages	±0.1% 5
Time ² M & S A A A C S A A A C S A	£ 6 ±5% 6 5
Duty cycle	±5%

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

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2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% Occupied Bandwidth	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass shirts
Band Edge	FCC part 15.247(d)	Pass
Spurious Emissions	FCC part 15.205/15.209	Pass

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

- 2.Test according to ANSI C63.10:2013
- 3. 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

ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
111 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

tem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
J. S.	EMI Test Receiver	R&S	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.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9168	VULB9168-588	2023.04.01	2025.03.31
5.00	Loop Antenna	EMCO	6502	2133	2023.03.18	2025.03.17
6.	horn antenna	SCHWARZBECK	BBHA9120D	2069	2023.04.01	2025.03.31
7 . 6	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.	Pre-amplifier	COM-MW	DLAN-18000 -40000-02	10229104	2024.03.14	2025.03.13
10.	966 Camber	ZhongYU	9*6*6	AST AND CONTRACT	2023.05.08	2026.05.07

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

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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 PCB antenna, the best case gain of the antenna is 1.58dBi, reference to the Internal photo for details.

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5. Conducted Emissions

5.1 Applicable Standard

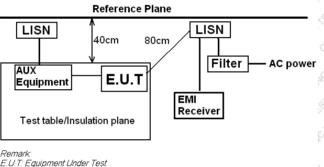
FCC Part15 C Section 15.207

5.2 Limit

		Limit (dBµV)		
F	Frequency range (MHz)	Quasi-peak	Average	
Le le	0.15-0.5	66 to 56*	56 to 46*	
6	0.5-5	56 56 M	46	
e co	5-30	6 A 60 A A	10 0° 50 51 m	

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

5.3 Test setup



E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m

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

- 1. 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.
- 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

Contraction of the second seco	Temperature	23 °C	Humidity	52%
0	ATM Pressure	101.1kPa	Antenna Gain	1.58dBi
Q	Test by	LBiLi	Test result	PASS OF ALL AND A

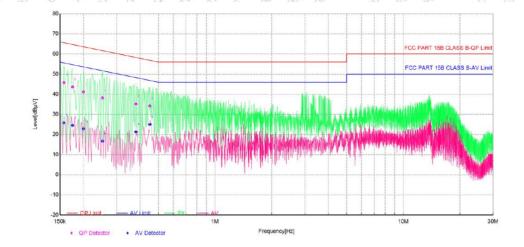
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Measurement data:

Pre-scan all test modes, found worst case at BLE 2Mbps 2402MHz, and so only show the test result of BLE 2Mbps 2402MHz

Line:



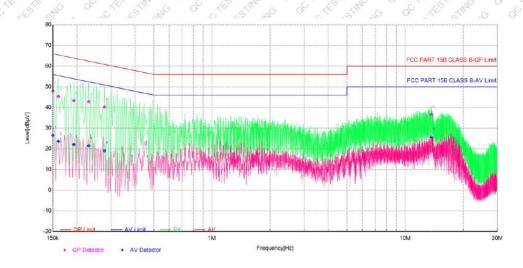
Fina	Final Data List									
NO.	Freq. [MHz]	Factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Phase	Verdict
1	0.1575	10.59	45.73	65.59	19.86	25.81	55.59	29.78	L	PASS
2	0.1750	10.62	43.64	64.72	21.08	24.59	54.72	30.13	L	PASS
3	0.2000	10.67	<mark>41</mark> .12	63.61	22.49	22.87	53.61	30.74	L	PASS
4	0.2525	10.68	38.14	61.67	23.53	16.71	51.67	34.96	L	PASS
5	0.3800	10.75	35.16	58.28	23.12	21.34	48.28	26.94	L	PASS
6	0.4500	10.75	34.18	56.88	22.70	24.99	46.88	21.89	L	PASS

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Neutral:



Fina	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	0.1500	10.48	47.91	66.00	18.09	26.54	56.00	29.46	N	PASS
2	0.1600	10.47	45.35	65.46	20.11	23.67	55.46	31.79	N	PASS
3	0.1925	10.49	43.32	63.93	20.61	22.10	53.93	31.83	N	PASS
4	0.2300	10.60	42.78	62.45	19.67	21.52	52.45	30.93	N	PASS
5	0.2775	10.77	40.23	60.89	<mark>2</mark> 0.66	19.10	50.89	31.79	N	PASS
6	13.6415	10 <mark>.</mark> 93	36.64	60.00	23.36	25.58	50.00	24.42	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.

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6. Conducted Peak Output Power

6.1 Applicable Standard

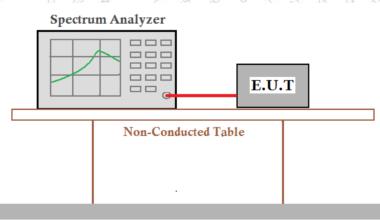
FCC Part15 C Section 15.247 (b)(3)

6.2 Limit

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

6.3 Test setup



Ground Reference Plane

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6.4 Test Procedure

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW≥DTS bandwidth.
- b) Set VBW≥[3*RBW].
- c) Set span≥[3*RBW].
- d) Sweep time= auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

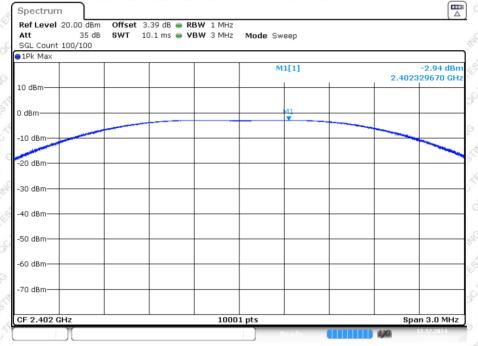
6.5 Test Data

Temperature	22.2 °C	Humidity	42 %
ATM Pressure	101.1kPa	Antenna Gain	1.58dBi
Test by	لي شي ڪي آني آني LBi لي	Test result	PASS

Please refer to following table and plots.

Output Power:

Modulation	CH No.	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Verdict
Star of the	Lowest	2402	-2.94	≤30	PASS
BLE 1Mbps	Middle	2440	-2.41	≤30	PASS
C THE STIME W	Highest	2480	-2.95	≤30	PASS
C C LE LA	Lowest	2402	2.46	≤30	PASS
BLE 2Mbps	Middle Middle	2440	2.98	≤30	PASS
STAD SO OF THE	Highest	2480	2.43	≤30	PASS
AT LES MAG OF	A ST & C	TE STIM SO OF	the state of a	the state of the	En Mar of Are



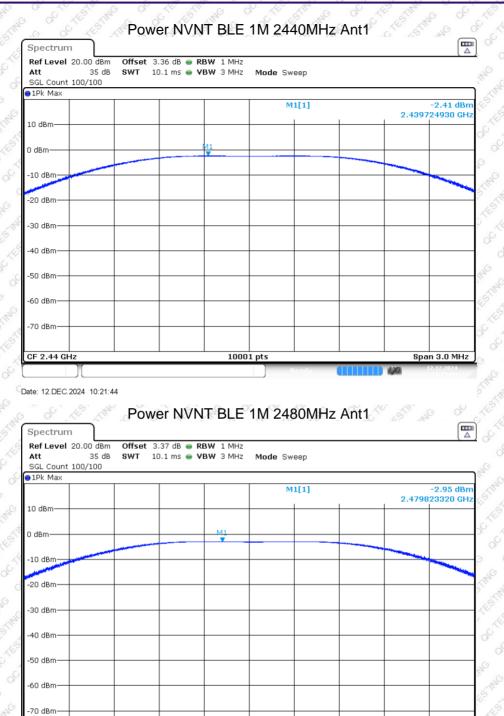
Power NVNT BLE 1M 2402MHz Ant1

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10001 pts

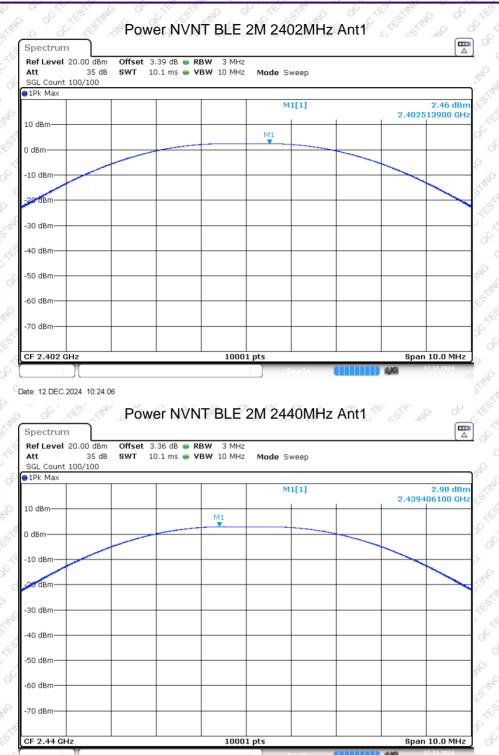
Date: 12.DEC.2024 10:22:49

CF 2.48 GHz

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Span 3.0 MHz



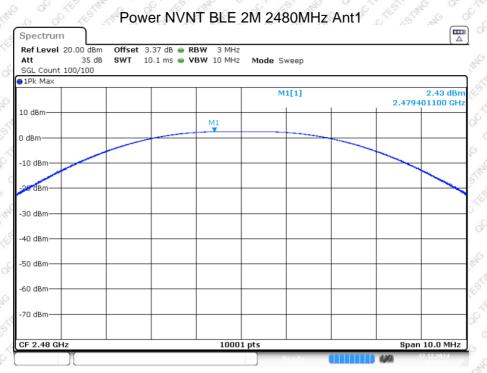


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Date: 12.DEC.2024 10:27:52

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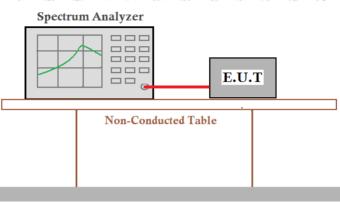
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7. Channel Bandwidth & 99% Occupied Bandwidth

- 7.1 Applicable Standard FCC Part15 C Section 15.247 (a)(2)
- 7.2 Limit

The minimum 6 dB bandwidth shall be 500 kHz

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	22.2 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	1.58dBi
K Test by	LBILI	Test result	PASS

Please refer to following table and plots.

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DTS Bandwidth:

				20 .67 .1S	6 6
Modulation	CH No.	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Verdict
STIME CONTR	Lowest	2402	م 1.81 🖉 🖉	0.5	PASS
BLE 1Mbps	Middle	2440	0.82	0.5	PASS
oc the stine of	Highest	2480	0.836	0.5	PASS
	Lowest	2402	1.388	6 (0.5 M	PASS
BLE 2Mbps	Middle	2440	1.391	0.5	PASS
Star Conte	Highest	2480	5 ¹¹ × 1.4° 5 ¹² 5	M 0.5 A	PASS 🖉

99% Occupied Bandwidth:

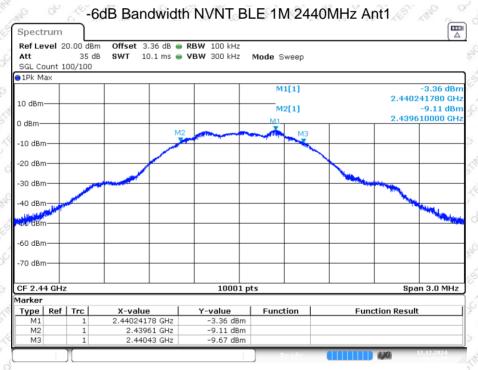
Modulation	CH No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
A CHING ON CHING	Lowest	2402	ິ _ເ ນັ້ 1,137	AND O CONTROL	PASS
BLE 1Mbps	Middle	2440	1,158	ANT OF C	PASS
Contraction of the second	Highest	2480	۲.183 <u>م</u>	A Start Solo	PASS
NO O THE STR	Lowest	2402	2.092	Contra Marine	PASS
BLE 2Mbps	Middle	2440	2.099	S Stranger	PASS
E LE THE AND A CONTRACT	Highest	2480	L 2.11 S L	ATTO O OF THE	PASS



DTS Bandwidth:



Date: 12.DEC.2024 10:20:03



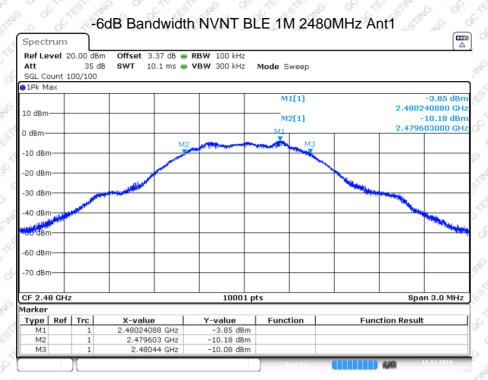
Date: 12.DEC.2024 10:21:58

O O K K

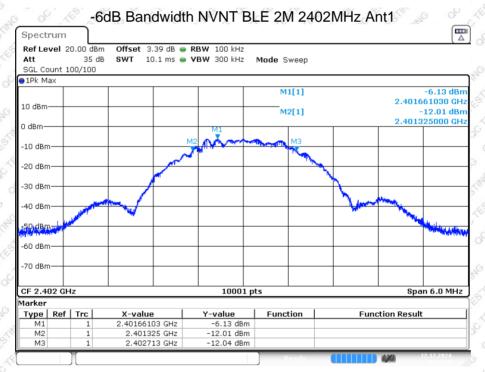
Report No.: QCT24KR-2365E-01

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CDate: 12.DEC.2024 10:23:03

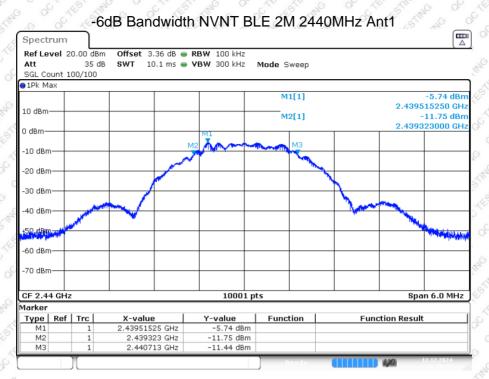


Date: 12.DEC.2024 10:24:20

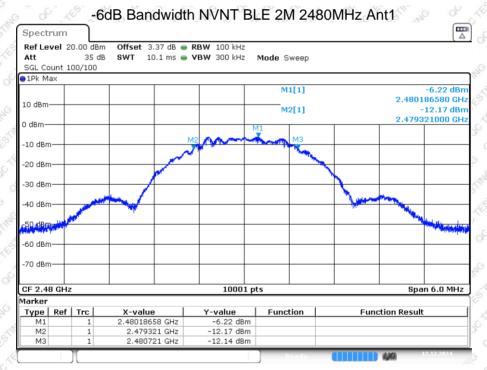
Report No.: QCT24KR-2365E-01

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CDate: 12.DEC.2024 10:26:39



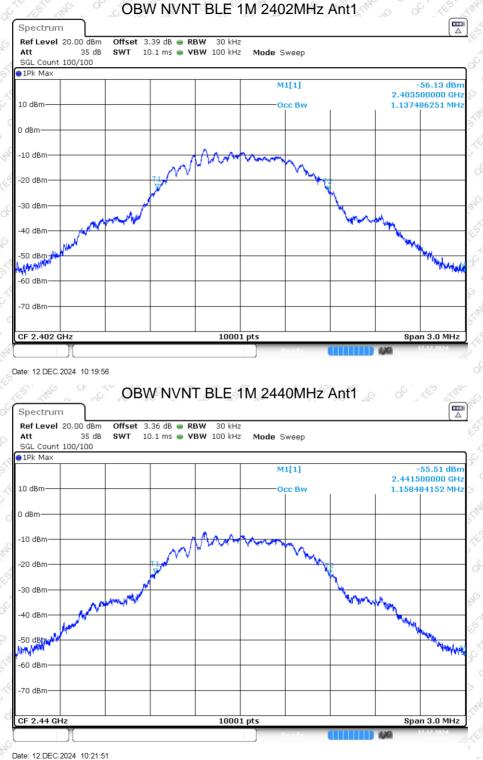
Date: 12.DEC.2024 10:28:06

Strand Of the

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99% Occupied Bandwidth:

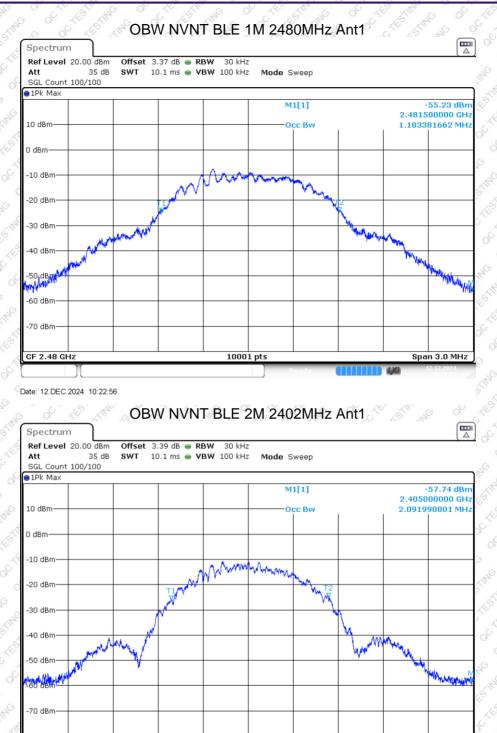


Date: 12.DE0.2024 10.21.01

Report No.: QCT24KR-2365E-01

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10001 pts

Date: 12.DEC.2024 10:24:12

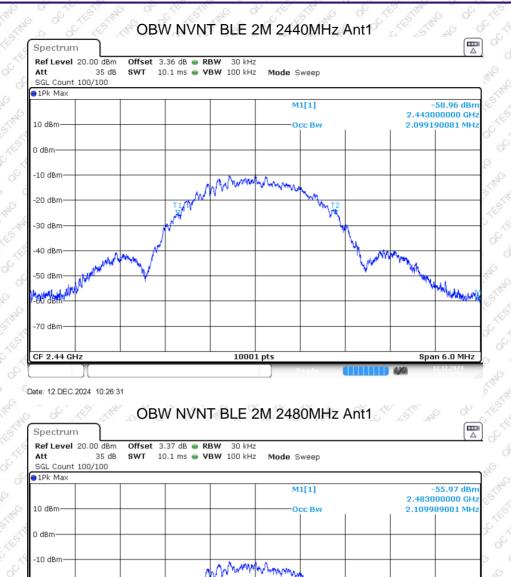
CF 2.402 GHz

Report No.: QCT24KR-2365E-01 Address: 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 http://www.qctest.com.cn

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Span 6.0 MHz





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MANANAN

Span 6.0 MHz

냈

-20 dBm

-30 dBm

-40 dBm -50 dBm

70 dBm

Report No.: QCT24KR-2365E-01

CF 2.48 GHz

Date: 12.DEC.2024 10:27:59

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Address: 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 http://www.qctest.com.cn

10001 pts

8. Power Spectral Density

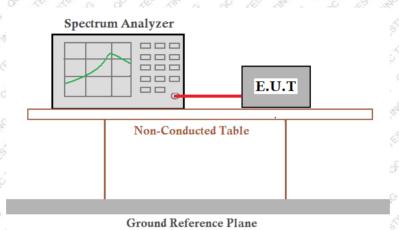
8.1 Applicable Standard

FCC Part15 C Section 15.247 (e)

8.2 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density

8.3 Test setup



8.4 Test Procedure

Refer to KDB558074 D01 15.247 Meas Guidance v05r02

8.5 Test Data

Temperature	22.2 °C	Humidity	50 %
ATM Pressure	101.1kPa	Antenna Gain	1.58dBi
Test by	LBi Li Contra Star	Test result	PASS

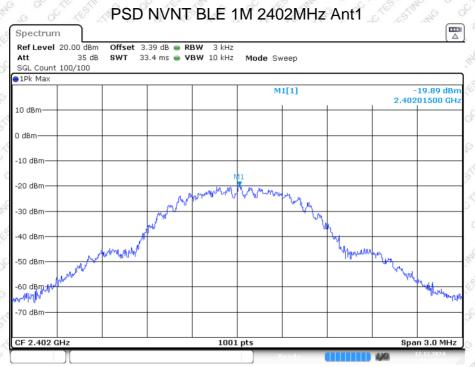
Please refer to following table and plots.

Ê					-0 kr -
~,	Modulation	Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
0	ALL LAND	Lowest	-19.89	the star of the	in a construction of the c
n and	BLE 1Mbps	Middle	<u>ې اور 19.31 کې د 19.31 کې کې د 19.31 کې د 1</u>	8.00	Pass
é	Nº . C C LE	Highest	6 A 19.47 Start Start	a chine stand	and the state
U .	ESTIMATION OF C	Lowest	24.06 × ×	MA SO OT THE THINK	a a the
Ş	BLE 2Mbps	Middle 🖉	-23.8	5 ¹¹⁰ 8.00 5 5	Pass
3	or all the line was	Highest	-24.3° 51° 60	ARE ATTAC OF A	AL AND S

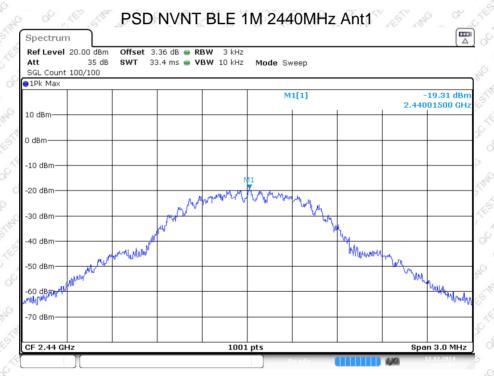
Report No.: QCT24KR-2365E-01

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Date: 12.DEC.2024 10:20:14

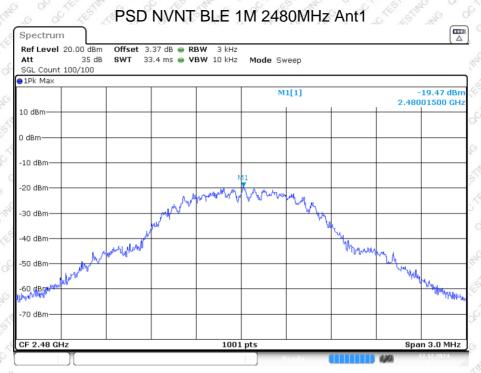


Date: 12.DEC.2024 10:22:09

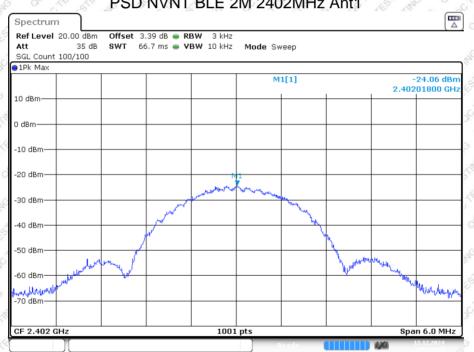
Report No.: QCT24KR-2365E-01

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Date: 12.DEC.2024 10:23:14



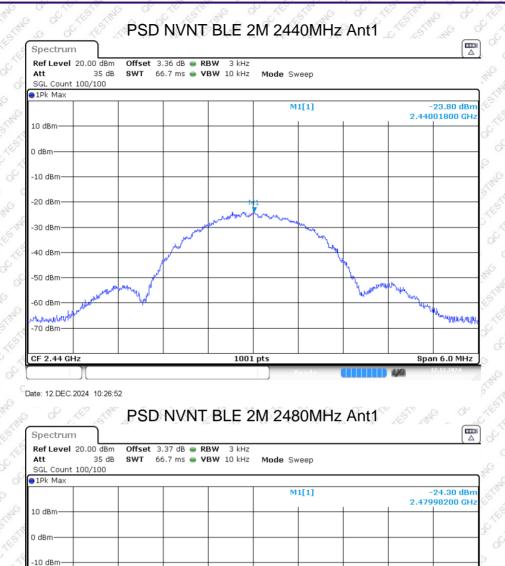
PSD NVNT BLE 2M 2402MHz Ant1

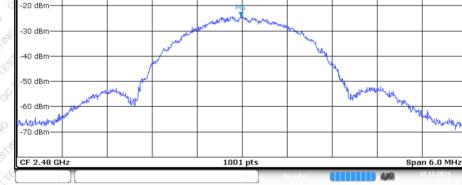
Date: 12.DEC.2024 10:24:33

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Date: 12.DEC.2024 10:28:19

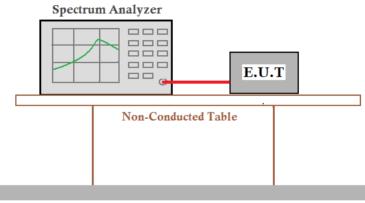
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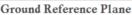
9. Spurious Emission in Non-restricted & restricted Bands

- 9.1 Conducted Emission Method
 - 9.1.1 Applicable Standard
 - FCC Part15 C Section 15.247 (d)
 - 9.1.2 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.

9.1.3 Test setup





9.1.4 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.

9	1.5 Test Data	NO G C ST NO O	A A O O A A	G G L A G
	Temperature	22.2 °C	Humidity	50 %
No	ATM Pressure	101.1kPa	Antenna Gain	1.58dBi
en la	Test by	LBKLI	Test result	PASS

Please refer to following plots.

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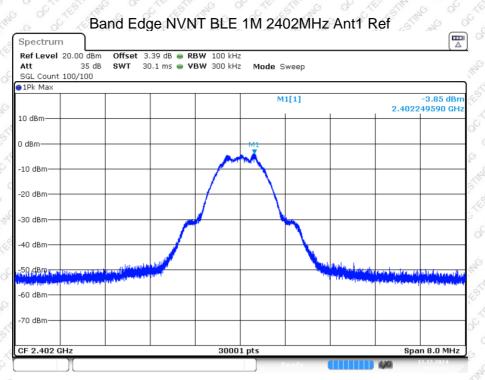


Band Edge:	a le in		O AV STING O	all still as a	A LE LE O
Modulation	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1Mbps	Lowest	2402	June -45.1	-20	Pass 🧷
BLE TWOPS	Highest	2480	-45.74	-20	Pass
	Lowest	2402	-43.4	-20	Pass
BLE 2Mbps	Highest	2480	-43.07	-20	Pass

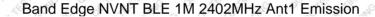
Report No.: QCT24KR-2365E-01

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CDate: 12.DEC.2024 10:20:23



Ref Lev	el 2	0.00 dBm	Offset 3	.39 dB 🧉	RBW	100 kHz							<u> </u>	
Att		35 dE				300 kHz	Mode	Sweep						
SGL Co	unt 1	00/100						F						
)1Pk Ma	X													
							M1[1]					-3.95 dBi		
LO dBm-	-+						M2[1]			2.402248500 GH −50.74 dBr 2.40000000@/\$H				
) dBm—	+		-					1	1		2.40	UUUUUu	₩ĕH	
10 10-													Ň.	
-10 dBm													11	
20 dBm	\rightarrow												Ш	
		1 -23.85	0 dBm										⊢	
30 dBm	+		_					-				-	н-	
40 dBm	+										44		+	
50 dBm											7 мз	M2		
	انین امریکار ماد داده واند را در		ll lodging lang	All all a second	والمرية أتراجع فالرا	di li di mali	and de life a gran piller Antigene er gran gran ge		1.1943	مع بالبلاغ (بالمالية) المعادية المعادية (بالمالية م	hard and the			
60 dBm								1						
70 dBm	+			<u> </u>				+						
Start 2.	306 (GHz	•		•	30001	pts				Sto	p 2.406	GHz	
larker														
Type	Ref	Trc	X-value		Y-value		Fun	Function		Function Result				
M1		1	2.4022485 GHz		-3.95 dBm									
M2		1	2.4 GHz		-50.74 dBm									
M3		1	2.39 GHz 2.3863 GHz		-53.25 dBm -48.95 dBm									

Date: 12.DEC.2024 10:20:29

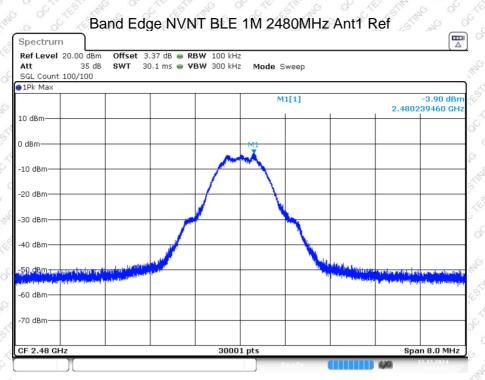
Date: 12.DEC.2024 10.20.23

Report No.: QCT24KR-2365E-01

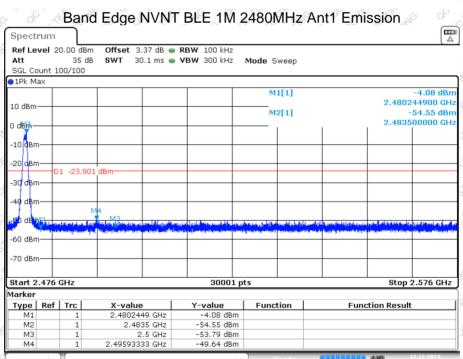
of the the of

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CDate: 12.DEC.2024 10:23:23

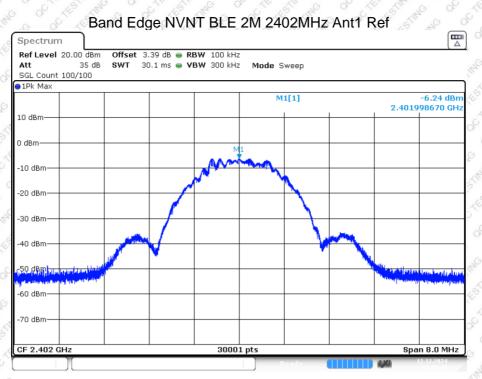


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CDate: 12.DEC.2024 10:24:41

Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

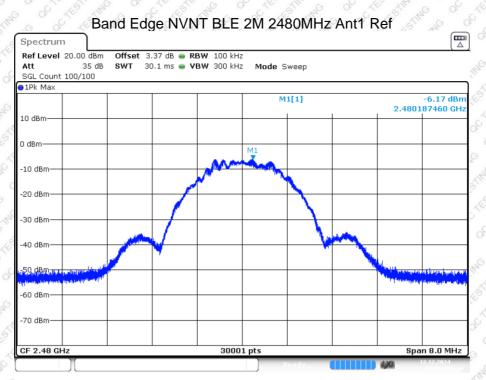
Ref Lev Att		35	dB SWT	t 3.39 dB (30.1 ms (Mode S	weep					
SGL Co		.00/100)										
)1Pk Ma	ax T						М	1[1]				-6.45	dBe
								1[1]			2,401	521800	
0 dBm-							м	2[1]				-39.92	
dBm—											2.400	000000) GH
ubiii—												- I - N	11
10 dBm	+												η_
													Π.
20 dBm	+											-	
	D	1 -26.	240 dBm										+
30 dBm												M2	
40 dBm	\rightarrow												- 14
											M4	1 /	- '\
50 dBm	dund u	بر الدار المرب معان		وريق من تقدر فقاط ما و توأمر رما	مراجع للمراجع	and the second second	ال والمراجع المريقيال	and hereing	ا مالازمان	all the set of the second	M3	July Mar 1	-
hard and the	and b	Automatus	a data parte a data da	the state parameter para	and the second	AND A DESCRIPTION OF	the sector and the sector	a second states	- des	a federation and a bije	al hotouthe burning and	al present	
60 dBm													
70 dBm													
, o abiii													
start 2	306	CHz				30001 p	te				Stor	2.406	CH2
arker	.000	GITZ				00001 p					0.01	2.400	GIIZ
	Ref	Trc	X-v	alue	Y-0	alue	Func	tion	1	Fun	ction Resu	lt	
M1	No1	1		15218 GHz		5.45 dBm	, unc			- T un	ction Resu		
M2		1		2.4 GHz		9.92 dBm							
MЗ		1		2.39 GHz	-53	3.94 dBm							
M4		1	2	2.3863 GHz	-49	9.64 dBm							

Date: 12.DEC.2024 10:24:47

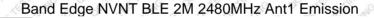
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Ref Level	20.00 d	Bm Offset	3.37 dB 🖷	• RBW 100 kHz					
Att				VBW 300 kHz	Mode S	weep			
SGL Count	100/100)							
)1Pk Max									
					M	1[1]			-6.04 dBm
LO dBm								2.4801	58200 GH
.0 ubiii					M	2[1]		-	53.74 dBn
dem —								2.4835	600000 GH:
10 <mark>0</mark> 8m-									
$ \Lambda $									
20 dβm—			+						
	D1 -26.	166_dBm							
30 d8m —									
40 dBm									
ар авт —		M4							
50 dBn12				المورية والمراجع المراجع والمراجع					
	and a second second second	and the second stands to second an		in practice provide a finite statistic provide statis					and the second statement of th
60 dBm—	1.11.1								
70 dBm—			+						
Start 2.47	5 GHz		_	30001	pts			Stop	2.576 GHz
arker									
Type Re	f Trc	X-valı	ie	Y-value	Funct	tion	Fu	nction Result	
M1	1		582 GHz	-6.04 dBi					
M2	1	2.4	835 GHz	-53.74 dBi	n				
MЗ	1		2.5 GHz	-54.64 dBi	n				
M4	1		609 GHz	-49.24 dBi					

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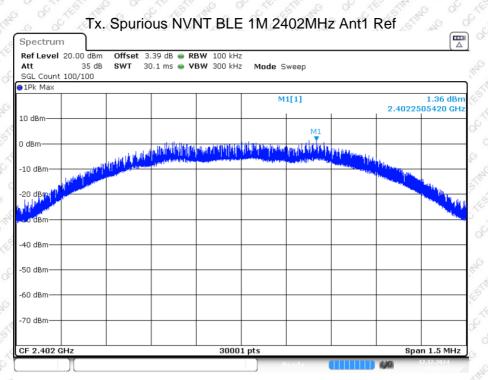
Modulation	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
AND ON AN	Lowest	2402	-44.42		Pass
BLE 1Mbps	Middle	2440	-39.62	-20	Pass
The restingtime of	Highest	2480	-38.95	-20	Pass
o all the the	Lowest	2402	-36.69	-20	Pass
BLE 2Mbps	Middle	2440	-37.25	-20	Pass
THE COLE	Highest	2480	-36.96	······································	Pass 2

Conducted RF Spurious Emission:

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CDate: 12.DEC.2024 10:20:39



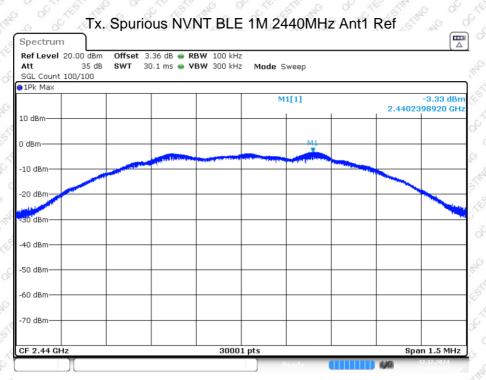
Ref Le	o lou	0.00 4	Bm Offset 3	3.39 dB 🖷	PBW	100 kHz						
Att	ver 2			265 ms 🖷			Mode S	ween				
SGL Co	unt 1		00 3 441	203 1113	1011	300 KH2	Houe 5	weep				
1Pk M		0/10										
	1						M	1[1]				-5.01 dBn
10 -10								-1-1			2.4	102070 GH
LO dBm·							м	2[1]				-43.06 dBr
) dBm—	141											221333 GH
	Ţ											1
10 dBm												+
		1 10	644 d0m									
20 dBm	iπ	1 -18.	644 dBm=====									
30 dBrr												
SU UBII												
40 dBm	·		M2 M3 V									
			The second second	MS								
50 dBm	1000		M4	hu halebed		La Boute - Bra	d an other	and a statistics	177		all and a little strength	and the property of
60 dBm		distantiant.					والمحمد والمحمد والمرعو		11111	and the second second	and the standard standards	
оо авп												
70 dBm	-											
Start 3	0.0 M	IHz				30001 p	ots				Stop	p 26.5 GHz
1arker												
Туре	Ref	Trc	X-valu	e	Y-1	value	Func	tion		Fund	tion Resul	t
M1		1	2.40	207 GHz	-	-5.01 dBm						
M2		1		333 GHz		43.06 dBm						
MЗ		1		186 GHz		16.49 dBm						
M4		1	7.3860	D13 GHz	-5	54.42 dBm						

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CDate: 12.DEC.2024 10:22:18



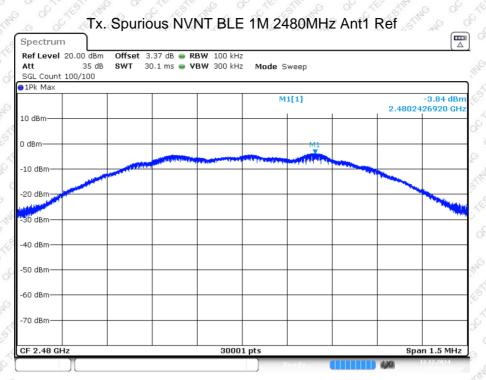
	Ļ			DDUU 400 LU						
Ref Level 3			_	RBW 100 kHz						
Att	35	dB SWT 2	65 ms 👄	VBW 300 kHz	Mode S	Sweep				
SGL Count : 1Pk Max	10/10									
JIPK Max					N	11[1]				-5.23 dBn
									2 4	40010 GH
10 dBm					N	12[1]				-42.95 dBn
) dBm M1										961611 GH
Ţ										
-10 dBm										
00 d0 m										
-20 dBm	01 -23.	329 dBm								
30 dBm										
		M2								
-40 dBm		M3 T								
50 dBm		MILLION MA	M5				م الدينية الم الم			
-50 dBm	appending from the	and the second second	a state of the second second	ار والدو المراجعة والرقعة الحريات	and the part of the	وسيعا فاسو	والمالية والمحاجمة والمحاج	The second		a harafada aya aya dadh
50 dBm		and the second	فأسعرهم والطريعان والمراجع	an at all a star stars in the	NO-					1
-70 dBm										
Start 30.0 M	4Hz			30001	pts				Stop	26.5 GHz
1arker	1 - 1				1 -			_		
Type Ref M1	Trc 1	X-value	9 D1 GHz	<u>Y-value</u> -5.23 dBr	Fund	tion		Func	ion Result	t
M1 M2	1	6.9616		-5.23 dBr -42.95 dBr						
M3	1	4.8448		-46.29 dBr						
M4	1	7.4883		-54.12 dBr						
M5	1	9.5750		-53.43 dBr						

Date: 12.DEC.2024 10:22:30

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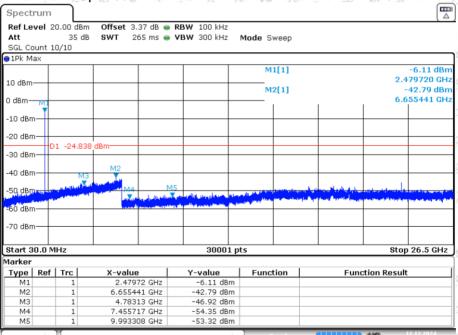
Report No.: QCT24KR-2365E-01





CDate: 12.DEC.2024 10:23:38



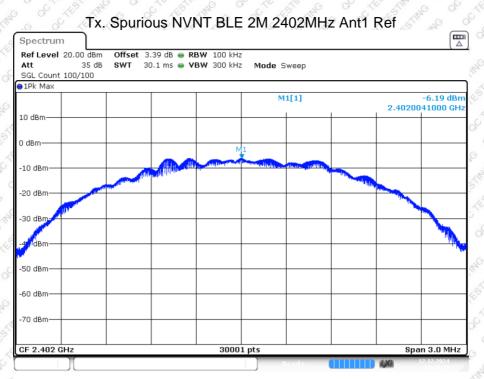


Date: 12.DEC.2024 10:23:51

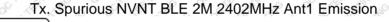
Report No.: QCT24KR-2365E-01

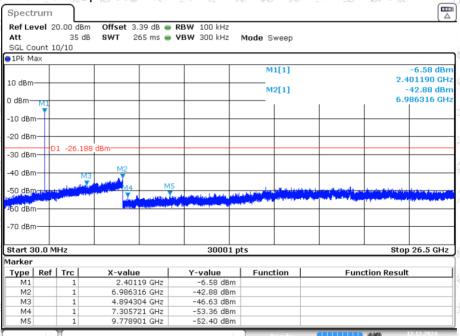
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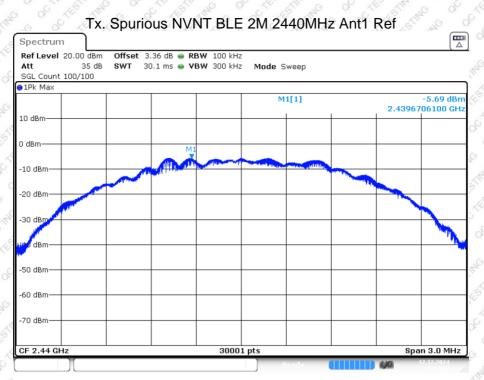


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Date: 12.DEC.2024 10:27:00



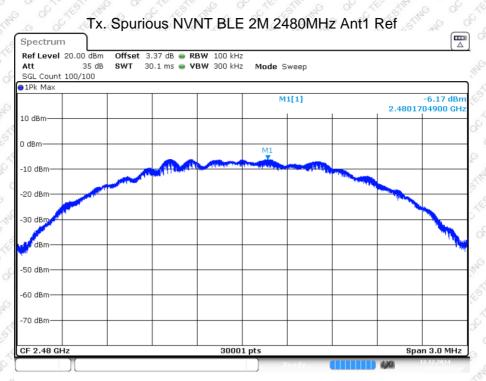
●1Pk M	ах						
10 dBm·					M1[1] M2[1]		-6.45 dBı 2.440010 GF -42.94 dBı
0 dBm—	M1				[HZ[1]		6.994257 GH
-10 dBm	T						
-20 dBrr							
-30 dBm		1 -25.690					
-40 dBm	۱	Ma	M2				
50 dBm			M4	M5	ph. horn the ph. s. h. s.		
60 dBm		A		and the second state of the	and a second		hendel (Meddel Minister, et 11, de sete ple stranmer per et
-70 dBm	+						
Start 3	0.0 M	Hz		30001 p	ts		Stop 26.5 GHz
1arker							
Type	Ref	Trc	X-value	Y-value	Function	Funct	ion Result
M1		1	2.44001 GHz	-6.45 dBm			
M2		1	6.994257 GHz	-42.94 dBm			
MЗ		1	4.959596 GHz	-46.80 dBm			
M4 M5		1	7.449541 GHz 9.860958 GHz	-54.43 dBm -53.09 dBm			

Date: 12.DEC.2024 10:27:13

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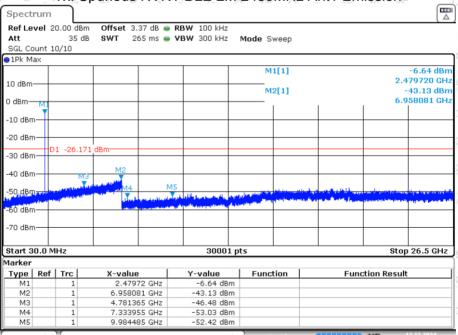
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9.2 Radiated Emission Method

9.2.1 Applicable Standard

FCC Part15 C Section 15.209 and 15.205

9.2.2 Limit

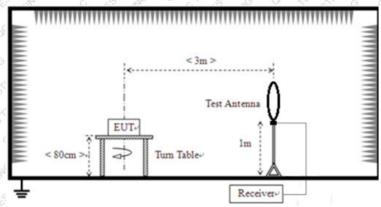
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m 5 s
0.490MHz-1.705MHz	24000/F(KHz)	QP of	2 30m 2 30m
1.705MHz-30MHz	30	QP	30m (100)

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	150 500 500 500 500	43.5	Quasi-peak
216 - 960	200	46.0	Quasi-peak
Above 960	500	54.0	Quasi-peak
	o te ma o	74.0 2	Peak
Above 1GHz		54.0	Average

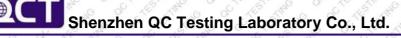
Note: dBµV/m =20log(µV/m)

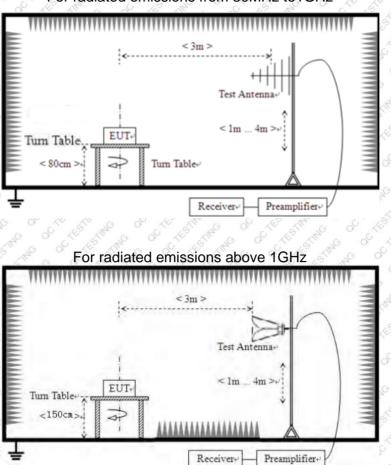
9.2.3 Test setup

For radiated emissions from 9kHz to 30MHz



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For radiated emissions from 30MHz to1GHz

9.2.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	M & S LO M	QP
150KHz-30MHz	9KHz	30KHz	1 0 10 A	QP 2
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP &
Above 1 GHz	1 MHz	3 MHz	Star Le o d	Peak
Above I GHZ	1 MHz	10 Hz	E E B	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.

9.2.5 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.

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.

9.2.6 Test Data

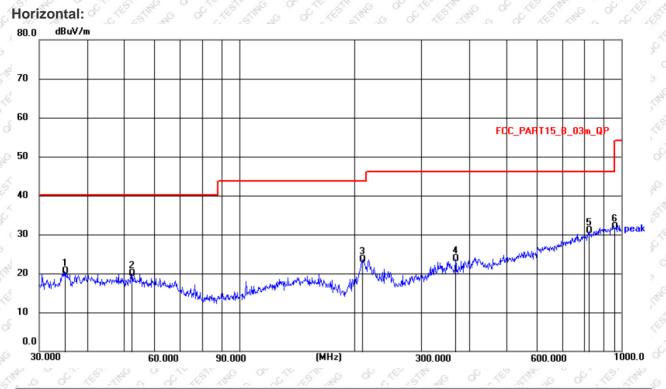
Temperature	26 °C	Humidity	54 %
ATM Pressure	101.1kPa	Antenna Gain	1.58dBi
Test by	LBi Li Statistica S	Test result	PASS AND AND O

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.

Below 1GHz

Pre-scan all test modes, found worst case at BLE 2Mbps:2402MHz, and so only show the test result of BLE 2Mbps:2402MHz.

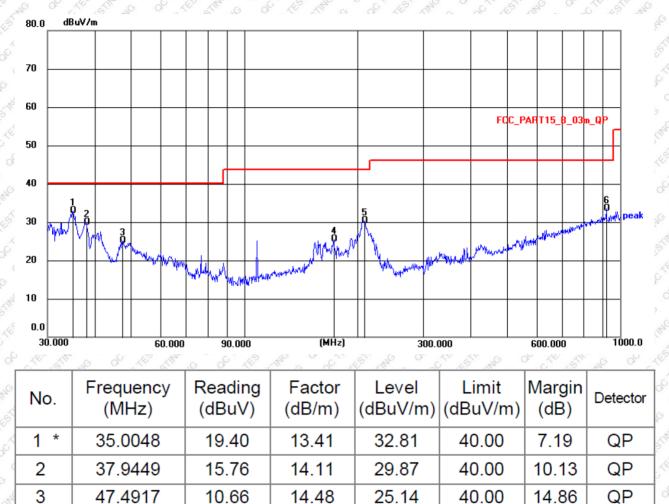


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.8822	6.91	13.60	20.51	40.00	19.49	QP
2	52.2078	5.52	14.47	19.99	40.00	20.01	QP
3	210.0481	11.75	11.83	23.58	43.50	19.92	QP
4	368.1116	6.93	16.77	23.70	46.00	22.30	QP
5	821.7103	6.06	24.91	30.97	46.00	15.03	QP
6 *	955.4381	5.21	26.79	32.00	46.00	14.00	QP

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12.90

11.54

26.30

25.51

30.31

33.43

43.50

43.50

46.00

17.99

13.19

12.57

QP

QP

QP

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4

5

6

173.2050

209.3129

919.2865

12.61

18.77

7.13

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Above 1GHz

Pre-scan all test modes, found worst case at BLE_2Mbps Mode, and so only show the test result of BLE_2Mbps Mode.

Frequency (MHz)Read Level (dBµV)polarizationFactor (dB/m)Level (dB/m)Limit Line (dBµV/m)Margin (dB)Detector231047.52H-11.4636.067437.94peak231046.91V-11.4635.457438.55peak239049.22H-11.1638.067435.94peak239045.88V-11.1634.727439.28peak480456.21H-5.9850.237423.77peak480453.19V-5.9847.217426.79peak	rest channel.		O LE LE	a 2	C A	J 19 18	6 19	20 0
2310 46.91 V -11.46 35.45 74 38.55 peak 2390 49.22 H -11.16 38.06 74 35.94 peak 2390 45.88 V -11.16 34.72 74 39.28 peak 4804 56.21 H -5.98 50.23 74 23.77 peak 4804 53.19 V -5.98 47.21 74 26.79 peak	• •		polarization				-	Detector
2390 49.22 H -11.16 38.06 74 35.94 peak 2390 45.88 V -11.16 34.72 74 39.28 peak 4804 56.21 H -5.98 50.23 74 23.77 peak 4804 53.19 V -5.98 47.21 74 26.79 peak	2310	47.52	AR AR	-11.46	36.06	74	37.94	peak
2390 45.88 V -11.16 34.72 74 39.28 peak 4804 56.21 H -5.98 50.23 74 23.77 peak 4804 53.19 V -5.98 47.21 74 26.79 peak	2310	46.91	a c V STA	-11.46	35.45	74	38.55	peak
4804 56.21 H -5.98 50.23 74 23.77 peak 4804 53.19 V -5.98 47.21 74 26.79 peak	2390	49.22	H H	-11.16	38.06	74	35.94	peak
4804 53.19 V -5.98 47.21 74 26.79 peak	2390	45.88	CESTING OF CO	-11.16	34.72	74 6	39.28	peak
	4804	56.21	Colling Hand	-5.98	50.23	74	23.77	peak
Test channel: Middle channel	4804	53.19	C Y LET	-5.98	47.21	~ 74 st	26.79	peak
	Test channel:	Middle channel	STAR OF COLLE	LESTING C	C TE THO		ETIMO OC	CIESTING AND

Test channel: Lowest channel

2	Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
È	4880	56.03		-5.71	50.32	~ 74 J	23.68	peak
3	4880	56.27		-5.71	50.56	~ 74 ^{//}	23.44	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	55.19	STILL HE COLO	-10.81	44.38	× 74°	29.62	peak
2483.5	52.51	A REAL STREET	-10.81	41.7	5 74	32.3	peak
2500	51.48	Co Herring	-10.75	40.73	74	33.27	peak
2500	51.12	N S V S N	-10.75	40.37	74	33.63	peak
4960	56.69	A A A A A A A A A A A A A A A A A A A	-5.45	51.24	74 00	22.76	peak
4960	55.46	ST AN AND ST	-5.45	50.01	74	23.99	peak

Remarks:

1. Level =Receiver Read level + Factor

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

3. 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 above table if the peak value complies with average limit.

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

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