FCC PART 15.247 TEST REPORT

On Behalf of

Bettear Accessibility Technologies Development Ltd.

33 Ha Barzel, Tel Aviv, Israel

FCC ID: 2BOBX-BCASTER

Model: B-CASTER

Apr. 17, 2025

This Report Concerns: **Equipment Type:** □ Original Report Battear CASTER-Auracast Audio Streamer LBili LBili **Test Engineer: Report Number:** QCT25CR-0025E-01 Test Date: Mar. 4~Apr. 17, 2025 Vincent Yang **Reviewed By:** Kendy Wang Kurr was 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

Report No.: QCT25CR-0025E-01

Fax: 0755-23726780

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9.1 Conducted Emission Method			LETTE MAN	Q 14	STILL O	3
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Revision History of This Test Report

Report Number	Description	Issued Date
QCT25CR-0025E-01	Initial Issue	2025-4-17
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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description:	Battear CASTER - Auracast Audio Streamer
Model No.:	B-CASTER COLUMN AND A COLUMN AN
Model Difference:	N/A STATE OF THE S
Tested Model:	B-CASTER OF THE STATE OF THE ST
Sample(s) Status:	Engineer sample
Packet Type:	Bluetooth LE(1Mbps)
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	
Channel separation:	2MHz Charles of the c
Modulation type:	GFSK A GENERAL SOLE AND A STATE OF THE AND A STATE
Antenna Type:	ANT 1 Metal Antenna ANT 2 Metal Antenna
Antenna gain*1:	ANT 1 5.61dBi (Provided by customer) ANT 2 4.91dBi (Provided by customer)
Power supply:	Input: DC 12V or PoE in the state of the sta
Trade Mark:	Bettear Cott is the contract of the state of
Applicant:	Bettear Accessibility Technologies Development Ltd.
Address:	33 Ha Barzel, Tel Aviv, Israel
Manufacturer:	Shenzhen Xinweike Electronics Co. Ltd
Address:	A2 building, the first Industrial Road of Xinwei Community,Fuyong street, Bao'an District, Shenzhen City, China
Sample No.:	Y25A0025E01WC

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	2402 MHz	116	2422 MHz	21	2442 MHz	31	2462 MHz		
2 10	2404 MHz	5 12 °	2424 MHz	22,5	2444 MHz	32° ×	2464 MHz		
* 3° CT	2406 MHz	[™] ,13 ,0	2426 MHz	© 23 K	2446 MHz	(2) X33	2466 MHz		
(5 1 4 6	2408 MHz	6 14 N	2428 MHz	24	2448 MHz	34	2468 MHz		
16° 5. 16° C	2410 MHz	15	2430 MHz	25	2450 MHz	6 35° A	2470 MHz		
6 6	2412 MHz	16 %	2432 MHz	26	2452 MHz	36	2472 MHz		
	2414 MHz	47	2434 MHz	27 5	2454 MHz	511 37 °C	2474 MHz		
11 8 ° C	2416 MHz	18 18 NO	2436 MHz	<u>28</u> (4)	2456 MHz	₹ [©] 38 °	2476 MHz		
15 ¹¹ 9,0	2418 MHz	6 19° g	2438 MHz	29 0	2458 MHz	39	2478 MHz		
×10 m	2420 MHz	20	2440 MHz	5300	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 (2)

1.2.2 EUT Exercise Software

Customers can burn fixed frequency programs, switch channels via the reset button, and set the power level to default

1.2.3 Support Equipment

Manufacturer	Description	Model	Remark
LIANGUO	Adapter	ZX900-AFG2-N301	A THE SERVICE STATES

1.2.4 Test mode and test voltage

Transmitting mode: Keep the EUT in continuously transmitting

Test voltage: DC 12V or PoE in

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 A A A A A A A A A A A A A A A A A A A	±1.06dB
Power Spectral Density, conducted	±1.06dB
Unwanted Emissions, conducted	**************************************
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)	6 6 £4.70 dB 6 6 6
Radiated Spurious Emission test (18GHz-40GHz)	±4.80dB
Temperature of the state of the	±0.8°C, 17 , 6)
Humidity of street of the street of	±3.2% (5) (8)
DC and low frequency voltages	±0.1%
Time the second of the second	
Duty cycle Control of the second of the seco	

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	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	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 &
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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
STIP AND	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2025.03.13	2026.03.14
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	2025.03.13	2026.03.14
Cond	ucted Emission Measureme	ent Software: TS+ JS	32-CE Ver 5.0.0	STATE OF STATE	THE OF THE	STEPHEN OF STATE

3.2 Radiated Emission Test

ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.0	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2025.03.13	2026.03.14
20	EMI Test Receiver	Rohde&Schwarz	ESPI	101131	2025.03.13	2026.03.14
3.	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2025.03.13	2026.03.14
4.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VÚLB9168	VULB9168-588	2025.03.13	2026.03.14
5,5	Loop Antenna	EMCO	6502	21335	2025.03.13	2026.03.14
6.5	horn antenna	SCHWARZBECK	BBHA9120D	2069	2025.03.13	2026.03.14
7 ?	Horn Antenna	COM-MW	ZLB7-18-40G -950	12221225	2024.08.10	2026.08.09
8.	Pre-amplifier	MITEQ ()	TTA0001-18	2063645	2025.03.13	2026.03.14
9.45	Pre-amplifier	COM-MW	DLAN-18000 -40000-02	10229104	2025.03.13	2026.03.14
10.	966 Camber	ZhongYU	9*6*6		2023.05.08	2026.05.07
110	Bandstop filter	Kangmaiwei	ZBSF6-C2400- 2483.5	11210688	2025.03.13	2026.03.14
12	High frequency cable	TIMES Microwave Ststems	SFT205-NMRA NM 18G	20202030-001	THE POST	
13	Low frequency cable	TIMES Microwave Ststems	SFT205PUR-N MRANM	558700-0001	Section of the second	

3.3 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
	Wideband Radio Communication Tester	Rohde & Schwarz	CW500 CHE	151583	2024.03.14	2025.03.13
2. <u>2</u> .	MXA Signal Analyzer	Keysighte	N9020A	MY51281805	2024.03.14	2025.03.13
3.	Signal Generator	Agilent	N5182A	MY50141563	2024.03.14	2025.03.13
4.	RF Automatic Test System	MW LESSE	MW100-RFCB/ MW100-PSB	MW2007004	2024.03.14	2025.03.13

RF Conducted Measurement Software: MTS 8310 Ver 2.0.0.0

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
\$\tag{1.6}	Wideband Radio Communication Tester	Rohde & Schwarz	CW500	151583	2025.03.13	2026.03.14
2.	MXA Signal Analyzer	Keysighte 5	N9020A	MY51281805	2025.03.13	2026.03.14
3.	Signal Generator	Agilent & &	N5182A	MY50141563	2025.03.13	2026.03.14
4.	RF Automatic Test System	S MW S	MW100-RFCB/ MW100-PSB	MW2007004	2025.03.13	2026.03.14

RF Conducted Measurement Software: MTS 8310 Ver 2.0.0.0

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: Antenna 1 is a metal antenna with an optimal antenna gain of 5.61dBi. Antenna 2 is a metal antenna with an optimal antenna gain of 4.91dBi. Please refer to the internal photos for details.

5. Conducted Emissions

5.1 Applicable Standard

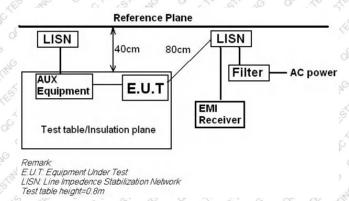
FCC Part15 C Section 15.207

5.2 Limit

	111	
	Limit (c	dΒμV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	56,6	46
5-30° C	511 NO 60 CT 511	4° 50° 15' 114' 140

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

- 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.
- 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.

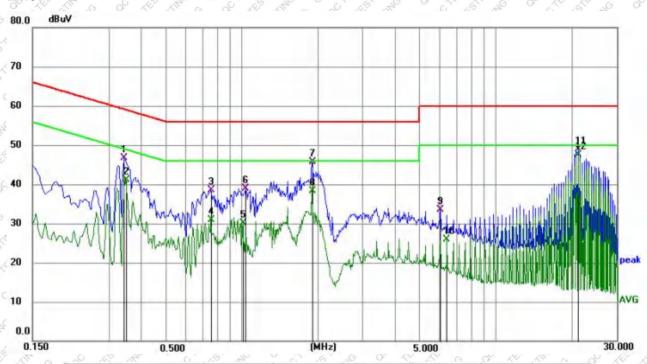
5.6 Test Data

Temperature	21 °C (5) (6)	Humidity	52% (4) (5)
ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi ANT 2 4.91dBi
Test by	LBi Lie	Test result	PASS & A A A A

Measurement data:

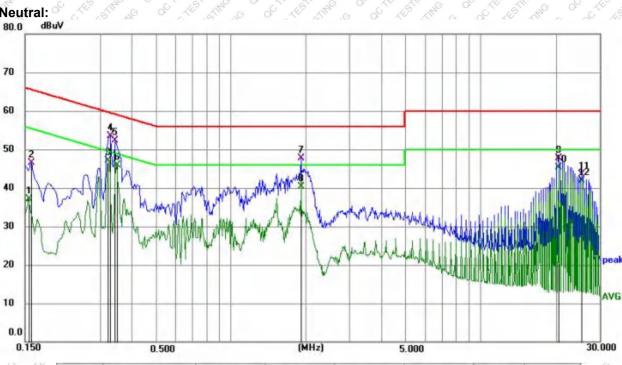
Pre-scan all test modes, found worst case at BLE 1Mbps 2402MHz, and so only show the test result of BLE 1Mbps 2402MHz

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3435	36.18	10.60	46.78	59.12	-12.34	QP
2	0.3480	30.59	10.60	41.19	49.01	-7.82	AVG
3	0.7575	27.87	10.65	38.52	56.00	-17.48	QP
4	0.7575	20.34	10.65	30.99	46.00	-15.01	AVG
5	1.0140	19.39	10.64	30.03	46.00	-15.97	AVG
6	1.0365	28.34	10.64	38.98	56.00	-17.02	QP
7	1.8960	34.93	10.68	45.61	56.00	-10.39	QP
8	1.8960	27.69	10.68	38.37	46.00	-7.63	AVG
9	6.0575	22.74	10.72	33.46	60.00	-26.54	QP
10	6.4355	15.22	10.73	25.95	50.00	-24.05	AVG
11	21.1825	37.74	11.10	48.84	60.00	-11.16	QP
12 *	21.1825	36.42	11.10	47.52	50.00	-2.48	AVG





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1545	26.60	10.59	37.19	55.75	-18.56	AVG
2	0.1590	35.98	10.58	46.56	65.52	-18.96	QP
3 *	0.3209	36.60	10.59	47.19	49.68	-2.49	AVG
4	0.3300	42.85	10.60	53.45	59.45	-6.00	QP
5	0.3435	41.61	10.60	52.21	59.12	-6.91	QP
6	0.3480	35.36	10.60	45.96	49.01	-3.05	AVG
7	1.9140	37.06	10.68	47.74	56.00	-8.26	QP
8	1.9140	29.65	10.68	40.33	46.00	-5.67	AVG
9	20.5390	36.63	11.11	47.74	60.00	-12.26	QP
10	20.5390	34.15	11.11	45.26	50.00	-4.74	AVG
11	25.4710	32.39	11.02	43.41	60.00	-16.59	QP
12	25.4710	30.95	11.02	41.97	50.00	-8.03	AVG

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

6. Conducted Peak Output Power

6.1 Applicable Standard

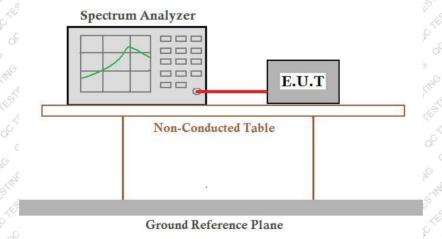
FCC Part15 C Section 15.247 (b)(3)

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



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	23.2°C	Humidity	48%
ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi ANT 2 4.91dBi
Test by	LBi Li	Test result	PASS AS AND SO

Please refer to following table and plots.

Output Power:

ANT1

Modulation	Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]
CAN LEST THE CO	2402	<i>-</i> 2.22	<u></u> ≤30 €	3.39	€36
BLE 1Mbps	2440	-0.53 ₁	<u>≤30</u>	5.08	S ≤36 S
	2480	0.37	© ≤30° gin	5.98	S S S S S S S S S S S S S S S S S S S

ANT2

Modulation	Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]
A CO CO TEST	2402	-1.69	<u>≤30</u> ≤30	3.85	≤36 €
BLE 1Mbps	2440° (K	0.02	<u></u>	4.93	≤36
Chis STIMO OF	2480	0.85	≤30	5.76	£ <u>36</u> €

ANT1

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



Power NVNT BLE 1M 2480MHz Ant1



ANT2

Power NVNT BLE 1M 2402MHz Ant2



Power NVNT BLE 1M 2440MHz Ant2



Power NVNT BLE 1M 2480MHz Ant2

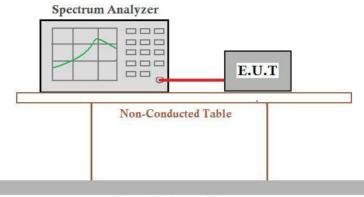


7. Channel Bandwidth & 99% Occupied Bandwidth

- 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	23.2 °C (10 g) (10 g)	Humidity	48%
ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi ANT 2 4.91dBi
Test by	LBi Light Son Son Son Son	Test result	PASS

Please refer to following table and plots.

DTS Bandwidth:

ANT1

べら	Modulation	CH No.	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Verdict
1	S SINN NO OC	Lowest	2402	~ 0.744° ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	>0.5°	PASS
	BLE 1Mbps	Middle	2440	0.744	€ >0.5 °	PASS
	C CTRS ESTIMATE	Highest	2480	0.744	>0.5	PASS

ANT2

Modulation	CH No.	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Verdict
S OF THE STATE	Lowest	2402	0.748	>0.5	PASS
BLE 1Mbps	Middle	2440	0.744	S S 0.5	PASS
STIME OF ST	Highest	2480	(5) NO 0.740 (1) (5)	>0.5	PASS

99% Occupied Bandwidth:

ANT1

Modulation	CH No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
The Letter of	Lowest	2402	1.0780	4511 140 00 C/E	PASS
BLE 1Mbps	Middle	2440	1,0813	Chi Sin No of	PASS
o of the state of	Highest 5	2480	1.0739	Service Commence	PASS

ANT2

	Modulation	CH No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
	of the state of	Lowest	2402	1.0809		PASS
1	BLE 1Mbps	Middle	2440	1.1021	CONTROLLING	PASS
9	KIME OF TES	Highest	2480	1.0844	NO OF THE STATE OF	PASS

DTS Bandwidth:

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



ANT₂

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant2



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant2



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant2



99% Occupied Bandwidth:

OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1



ΔΝΤ2

OBW NVNT BLE 1M 2402MHz Ant2



OBW NVNT BLE 1M 2440MHz Ant2



OBW NVNT BLE 1M 2480MHz Ant2



8. Power Spectral Density

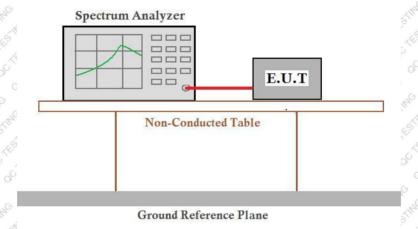
8.1 Applicable Standard

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	23.2°C	Humidity	48%
ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi ANT 2 4.91dBi
Test by	LBi Li Con Land	Test result	RASS (STATE OF

Please refer to following table and plots.

ANT1

Modulation	Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
C C LE LE	Lowest	~ 16.60 × 11	CONTROLLED STATE OF S	KESTING O
BLE 1Mbps	Middle	4.82	8.00	Pass
ET THE COLOR	Highest	-13.86	THE OF THE STATE	

ANT2

Modulation	Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
ESTANCE OF COLVE	Lowest 15	· · · · · · · · · · · · · · · · · · ·	NO OF THE STIME TO	
BLE 1Mbps	Middle & K	414.05°	8.00	Pass
of the time of	Highest	13.08 × × ×	KES STIME OF THE	CIMPO O

ANT1

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



PSD NVNT BLE 1M 2480MHz Ant1



ANT2

PSD NVNT BLE 1M 2402MHz Ant2



PSD NVNT BLE 1M 2440MHz Ant2



PSD NVNT BLE 1M 2480MHz Ant2



9. Spurious Emission in Non-restricted & restricted Bands

9.1 Conducted Emission Method

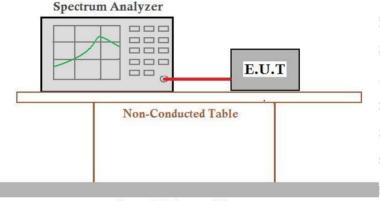
9.1.1 Applicable Standard

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



Ground Reference Plane

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

, V	Temperature	23.2 °C C C C C C C C C C C C C C C C C C C	Humidity	48%
(S) X	ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi ANT 2 4.91dBi
0	Test by	LBi Light (Signal Control	Test result	PASS

Please refer to following plots.

Band Edge:

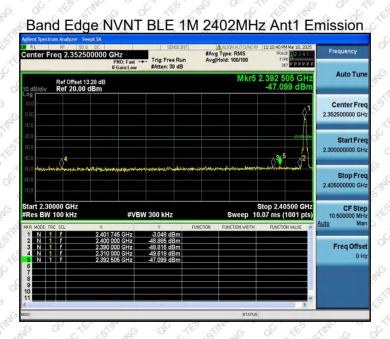
ANT1

Ç,	Modulation	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
X	BLE 1Mbps	Lowest	2402	-44.051	_ ~ _ _	Pass
0	DEE HVIDPS	Highest	2480	-46.564	-20 5	Pass ()

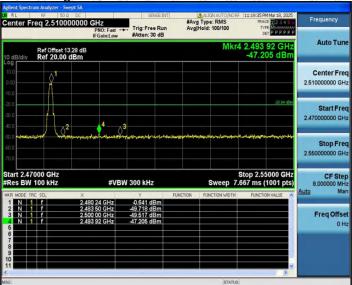
ANT2

0	Modulation	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
	PLE 1Mbpg	Lowest	2402	42.999 × ×	-20 ° ×	Pass ()
Ş	BLE 1Mbps	Highest	2480	-45.475	-20	Pass Pass

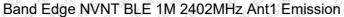
ANT1

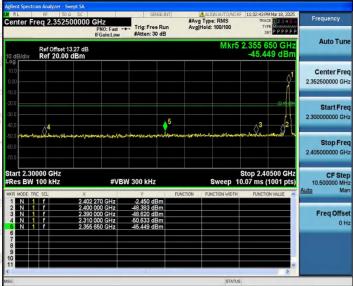




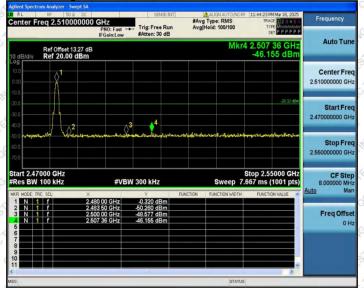


ANT2





Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Conducted RF Spurious Emission:

ANT₁

Modulation	Frequency (MHz)	FreqRange (MHz)	Max Value (dBc)	Max Value (dBc) Limit (dBc) Verdict	
THE STANCE OF	Lowest	30~1000	58.39	-20	Pass &
OF THE THE	Lowest	1000~26500	£48.70 <u></u>	-20	Pass
BLE 1Mbps	Middle	30~1000	-57.99	-20	Pass
BLE HVIDPS	Mildaje	1000~26500	-48.93	£ £20 € 51	Pass
ESTER OF	Highest	30~1000	₹ 57.55 £	-20 5	Pass
S THE STANCE OF	C C C	1000~26500	-47.68	-20	Pass O

ANT2

Modulation	Frequency (MHz)	FreqRange (MHz)	Max Value (dBc)	Max Value (dBc) Limit (dBc)	
CHE LETTER OF	o Laware	30~1000	-57.69	(20 ° c	Pass Control
OC TEST STIME	Lowest	1000~26500	-47.71	-20	Pass
BLE 1Mbps	Middle	30~1000		~ -20 (m²)	Pass
BLE TIMIDIS	STANIGGIE AT	1000~26500	-48.57	-20	Pass
THE THE GO OF	Lishast	30~1000	56.97 ×	51 -20 S	Pass
S CTES LESTIMAN	Highest	1000~26500	£ 2-48.35	-20	Pass

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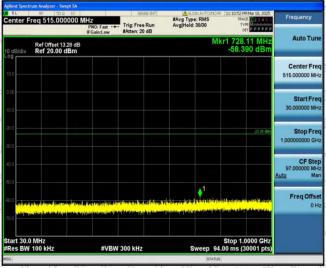


ANT1

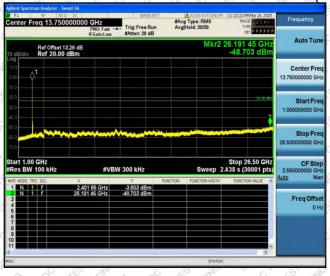
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission(30M-1G)



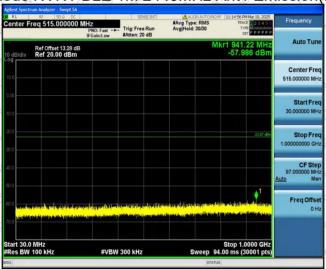
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission(1G-26.5G)



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission(30M-1G)



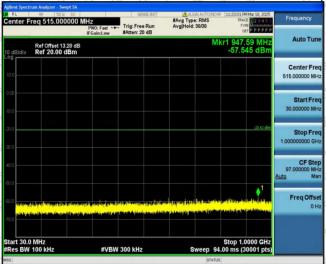
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission(1G-26.5G)



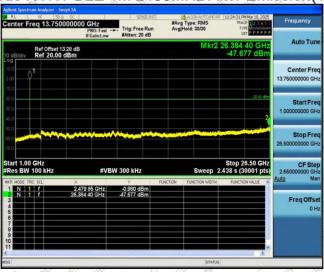
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission(30M-1G)



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission(1G-26.5G)



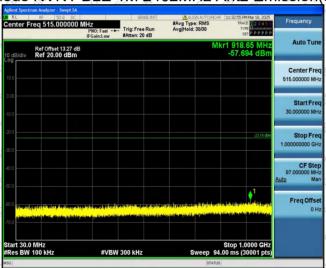


ANT2

Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Emission(30M-1G)



Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Emission(1G-26.5G)

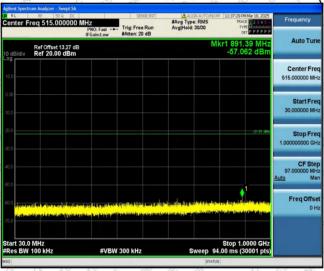




Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Emission(30M-1G)



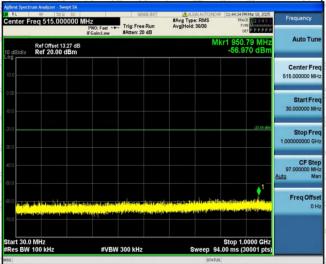
Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Emission(1G-26.5G)







Tx. Spurious NVNT BLE 1M 2480MHz Ant2 Emission(30M-1G)



Tx. Spurious NVNT BLE 1M 2480MHz Ant2 Emission(1G-26.5G)



9.2 Radiated Emission Method

9.2.1 Applicable Standard

FCC Part15 C Section 15.209 and 15.205

922 Limit

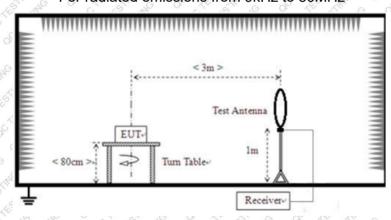
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	© QP	300m M
0.490MHz-1.705MHz	24000/F(KHz)	QP of	(2) 30m (2) 180 (3)
1.705MHz-30MHz	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	QP O	30m C C C C C

Frequency	Field Strengths Limits (µV/m at 3 m)	Field Strengths Limits (dBµV/m at 3 m)	Remark		
30 – 88	100	40.0 ° 6 7	Quasi-peak		
88 – 216	150	43.5	Quasi-peak		
216 – 960	(200° LE 21	46.0	Quasi-peak		
Above 960	6 25 25 500 C 6 25 X	54.0 [5]	Quasi-peak		
Above 1GHz		74.0 S S	Peak		
ADOVE IGHZ	A CONTRACTOR	54.0	Average 5		

Note: dBµV/m =20log(µV/m)

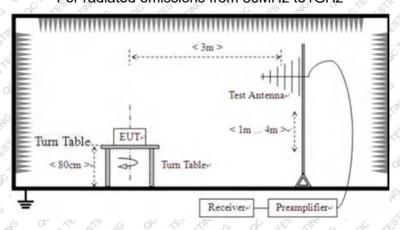
9.2.3 Test setup

For radiated emissions from 9kHz to 30MHz

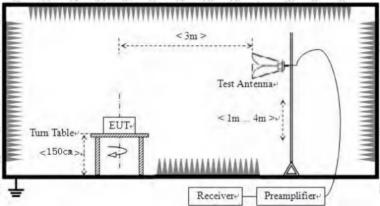


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For radiated emissions above 1GHz



9.2.4 EMI Test Receiver Setup

Frequency &	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	The State of the state of	QP
150KHz-30MHz	9KHz	30KHz	6 16 K	QP QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP (P)
Above 1 GHz	1 MHz	3 MHz		Peak &
Above I GHZ	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.

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.

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- 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	24.3 °C	Humidity	52 % 50 6 75 75
ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi ANT 2 4.91dBi
Test by	LBi Li	Test result	PASS & A A

Remarks:

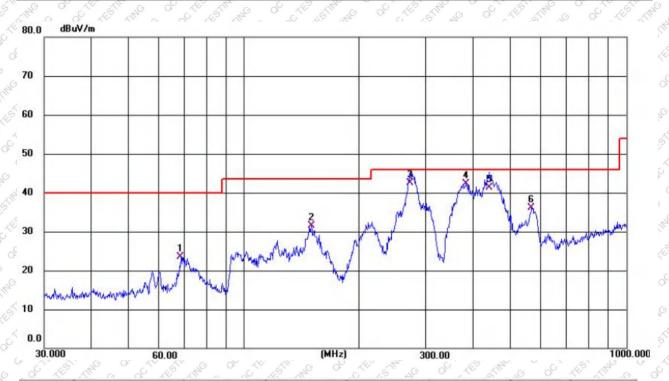
- 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- 2. Data of measurement within frequency range 9kHz-30MHz, 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured,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

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Below 1GHz

Pre-scan all test modes, found worst case at BLE ANT 1 1Mbps:2402MHz, and so only show the test result of BLE ANT 1 1Mbps:2402MHz.

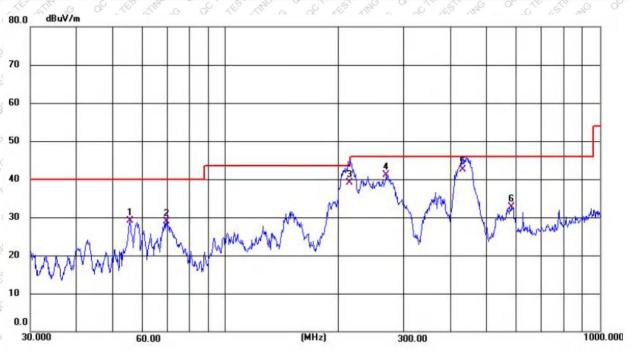
5	Temperature	24.3°C	Humidity	52 % 10 10 10 10 10 10 10 10 10 10 10 10 10
	ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi
1	Test by	LBi Life Control of the control of t	Polarization:	Horizontal:



100	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	C, X,O,
ź	1	68.4867	40.98	-17.41	23.57	40.00	-16.43	QP	5
	2	150.1687	45.58	-14.03	31.55	43.50	-11.95	QP	1
100	3 *	271.8960	57.62	-15.02	42.60	46.00	-3.40	QP	W
Ś	4	381.6499	54.36	-12.11	42.25	46.00	-3.75	QP	K
	5	438.4248	51.75	-10.45	41.30	46.00	-4.70	QP	6
Ç.	6	565.3318	44.22	-8.09	36.13	46.00	-9.87	QP	0



Temperature	24.3 °C 6 6	Humidity	52 %
ATM Pressure	101.1kPa	Antenna Gain	ANT 1 5.61dBi
Test by	LBi Li Jan San San San San San San San San San S	Polarization:	Vertical &



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	55.5215	44.37	-15.29	29.08	40.00	-10.92	QP
2	69.5027	46.52	-17.60	28.92	40.00	-11.08	QP
3	215.2301	57.68	-18.58	39.10	43.50	-4.40	QP
4	269.3339	56.51	-15.48	41.03	46.00	-4.97	QP
5 *	430.2765	53.26	-10.66	42.60	46.00	-3.40	QP
6	581.3138	39.71	-6.99	32.72	46.00	-13.28	QP

Above 1GHz ANT1

Test channel: Lowest channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
2310	53.62	C H CO	-11.46	42.16	74,5	-31.84	peak
2310	54.11	AND OF STATE	-11.46	42.65	94	-31.35	peak
2390	64.11	FESTINE OF	-11.16	52.95	5 T4 6	-21.05	peak
2390	64.43	COLE VILLE	-11.16	53.27	74	-20.73	peak
4804	66.32	HAR	-5.68	60.64	6 74 A	-13.36	peak
4804	47.11	HO K	₋ -5.68	41.43	54	-12.57	AVG
4804	60.17	ESTIVACE C	-5.68	54.49	74	-19.51	peak
4804	45.66	STEEN STEEN	-5.68	39.98	54	-14.02	AVG &

Test channel Middle channel

20.	Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
<u> </u>	4880	63.41	ST HE IN	-5.45	57.96	74	-16.04	peak <
(4880	42.22	H K	-5.45	36.77	54	-17.23	AVG
) (C	4880	66.87	A COCK	-5.45	61.42	~ 74° &	-12.58	peak
1	4880	41.17	CO CO	-5.45	35.72	54	-18.28	AVG

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	72.99	A LEST A	-10.81	62.18	74	-11.82	peak
2483.5	57.14	of High	-10.81	46.33	54	-7.67	AVG O
2483.5	70.25	N Kan	-10.81	59.44°	74	-14.56	peak
2483.5	56.77	THE YOUR	-10.81	45.96	54	-8.04	AVG
2500	61.23	HE CO	-10.75	50.48	74	-23.52	peak
2500	60.41	o chi Vising	-10.75	49.66	74 TA	-24.34	peak
4960	58.29	C H. K.	-5.23	53.06	6 74°	-20.94	peak
4960	55.37	STANGE V OF S	-5.23	50.14	74	-23.86	peak



Shenzhen QC Testing Laboratory Co., Ltd.

Above 1GHz ANT2

Test channel: Lowest channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
2310	55.69	C H K	-11.46	44.23	74,5	-29.77	peak
2310	57.41	CIMO OF OF THE	-11.46	45.95	94	-28.05	peak
2390	63.21	TO THE OF	-11.16	52.05	5 TA 6	-21.95	peak
2390	62.47	C. C. VIII	-11.16	51.31	£ 74 0	-22.69	peak
4804	63.22	H	-5.68	57.54	6 74°	-16.46	peak
4804	48.93	HO K	-5.68	43.25	54	-10.75	AVG
4804	60.79	E STV C	-5.68	55.11	74	-18.89	peak
4804	46.78	CONTROL OF THE CONTRO	-5.68	41.10	54	-12.90	AVG (

Test channel: Middle channel

Frequency (MHz)	Read Level (dBµV)	polarization	Factor (dB/m)	Level (dBµV/m)	Limit Line (dBµV/m)	Margin (dB)	Detector
4880	65.23	ST HE IN	-5.45	59.78	74	-14.22	peak 🖔
4880	43.18	H K	5.45	37.73	54	-16.27	AVG
4880	65.69	A COCK	-5.45	60.24	<u>√</u> 74 €	-13.76	peak
4880	43.13	CE LETT VAC C	-5.45	37.68	54	-16.32	AVG

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	66.11	A LEST A	°-10.81	55.30	74	-18.70	peak
2483.5	55,18	of High	10.81	44.37	54	-9.63	AVG A
2483.5	68.78	No A Land	-10.81	57.97	74	-16.03	peak
2483.5	56.98	The Your	-10.81	46.17	54	-7.83 °	AVG
2500	62.32	He c	-10.75	51.57	5 ¹ 74 °	-22.43	peak
2500	63.41	o CLENE INTER	-10.75	52.66	74	-21.34	peak
4960	58.22	O H. K.	-5.23	52.99	6 74° A	-21.01	peak
4960	59.18	STANGE V &	-5.23	53.95	74	-20.05	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.

<u>√</u>	E END	OF T	EST	REPO	RT	
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