

RADIO TEST REPORT ETSI EN 300 328 V2.2.2 (2019-07)

Product: Tablet PC

Trade Mark: Blackview

Model Name: Active 8 Pro

Family Model: N/A

Report No.: S23081004401002

Prepared for

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn



TEST RESULT CERTIFICATION

7
Applicant's name: DOKE COMMUNICATION (HK) LIMITED
Address RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Manufacturer's Name: Shenzhen DOKE Electronic Co., Ltd
Address
Product description
Product name: Tablet PC
Trademark: Blackview
Model Name: Active 8 Pro
Family Model: N/A
Standards: ETSI EN 300 328 V2.2.2 (2019-07)
This device described above has been tested by Shenzhen NTEK, and the test results show that t equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.
This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK
this document may be altered or revised by Shenzhen NTEK, personnel only, and shall be noted i
the revision of the document.
Test Sample Number: \$230526008001
Date of Test
Date (s) of performance of tests
Date of Issue: Aug 30, 2023
Test Result: Pass
Note: All test data of this report are based on the original test report \$23052600801002 dated by Jun 25, 2023
Testing Engineer : Wen live
(Allen Liu)
Authorized Signatory:

(Alex Li)



1 . GENERAL INFORMATION	6
1.1 GENERAL DESCRIPTION OF EUT	6
1.2 INFORMATION ABOUT THE EUT	7
1.3 TEST CONDITIONS AND CHANNEL 1.	2
1.4 DESCRIPTION OF TEST CONDITIONS	3
1.5 DESCRIPTION OF SUPPORT UNITS	4
1.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	5
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3 . TEST PROCEDURES AND RESUTLS	8
3.1 EQUIVALENT ISOTROPIC RADIATED POWER	8
3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER 1.	
	8
	8
AL (2) (1) (2) (2) (2)	9
3.2 . PEAK POWER DENSITY 2 3.2.1 LIMITS OF POWER SPECTRAL DENSITY 2	-
3.2.2 TEST PROCEDURE	-
3.2.3 TEST SETUP 2	0
3.2.4 TEST RESULTS 2	1
3.3 . OCCUPIED CHANNEL BANDWIDTH	_
3.3.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH 2.3.3.3 TEST PROCEDURE	
3.3.2 TEST PROCEDURE 2.3.3.3 DEVIATION FROM TEST STANDARD 2.3.3.4 DEVIATION FROM TEST STANDARD	
3.3.4 TEST SETUP 2	
3.3.5 TEST RESULTS 2	3
3.4 . TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN 2.	-
3.4.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAN DOMAIN	
3.4.2 TEST PROCEDURE	
3.4.3 DEVIATION FROM TEST STANDARD 2	5
3.4.4 TEST SETUP 2	
3.4.5 TEST RESULTS 2	
3.5 . ADAPTIVE (CHANNEL ACCESS MECHANISM) 2.5 . A ARRIVE CARLITY OF A DARTIVE REQUIREMENTS AND LILLT FOR WIDE RA	
3.5.1 APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LILIT FOR WIDE BAMODULATION TECHNIQUES	AND 7
3.5.2 TEST PROCEDURE	
	8



		Table of Conte	nts		Page
	3.5.4 LIST OF MEAS	UREMENTS			29
	3.5.5 TEST RESULT	S			30
	3.6 . TRANSMITTER UN 3.6.1 LIMITS OF TRA				
	DOMAIN				31
	3.6.2 TEST PROCED		ADD.		31
	3.6.3 DEVIATION FR	OMIESISIAND	ARD		31
	3.6.4 TEST SETUP 3.6.5 TEST RESULTS	S/Padiated massu	romont)		32 33
	3.6.6 TEST RESULT:				34
	3.7 . RECEIVER SPURIO		iodi omoni,		35
	3.7.1 LIMITS OF RE		IS RADIATION		35 35
	3.7.2 TEST PROCED		O TO TO TO TO TO		35
	3.7.3 DEVIATION FR		ARD		35
	3.7.4 TEST SETUP				36
	3.7.5 TEST RESULTS	S(Radiated measu	rement)		37
	3.7.6 TEST RESULT	S (Conducted mea	surement)		38
	3.8 . RECEIVER BLOCK	ING			39
	3.8.1 PERFORMANO				39
	3.8.2 LIMITS OF REC		G		39
	3.8.3 TEST PROCED		400		41
	3.8.4 DEVIATION FR 3.8.5 TEST SETUP	OMIESISIAND	ARD		41 41
	3.8.6 TEST RESULTS	s.			41
4	. TEST RESULTS				44
	1M:				44
	4.1.1 RF Output Pow	er			44
	4.1.2 Power Spectral	Density			47
	4.1.3 Occupied Chan				50
	4.1.4 Transmitter unv				53
	4.1.5 Transmitter unv		n the spurious doma	ain	55 58
	4.1.6 Receiver spurio	005 611115510115			
	2M:				61
	4.2.1 RF Output Pow 4.2.2 Power Spectral				61 64
	4.2.3 Occupied Chan	•			67
	4.2.4 Transmitter unv		n the out-of-band de	omain	70
	4.2.5 Transmitter unv				72
	4.2.6 Receiver spurio				75
5	. EUT TEST PHOTO				78
S	PURIOUS EMISSIONS	MEASUREMEN [®]	T PHOTOS		78



Revision History

Report No.	Version	Description	Issued Date
S23052600801002	Rev.01	Initial issue of report	Jun 25, 2023
S23081004401002	Rev.02	Updated report number	Aug 30, 2023
	2	* *	4
		4 20 4	6
		4	A 40
F 1/0 5	>	Jr 2500	4,
		- 4	Æ .L
4 8	4	*	30 10
30 7			
		4.	*
* *			
310		10 - 2 - 4	*
ــــــــــــــــــــــــــــــــــــــ		4	
1		کے ہے ،	
300		10 TO 4	4



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC		
Trade Mark	Blackview		
Model Name.	Active 8 Pro		
Family Model	N/A		
Model Difference	N/A		
	The EUT is Tablet PC		
	Operation Frequency: 2402~2480 MHz		
4	Modulation Type: GFSK		
	Adaptive/non-adaptive Adaptive equipment		
Product Description	Receiver categories 3		
7	Number Of Channel Please see Note 2.		
*	Antenna Designation: PIFA Antenna		
* 300	Antenna Gain(Peak) 1.5 dBi		
	<u> </u>		
Channel List	Refer to below		
Adapter	Model: HJ-C6-33-EU Input: 100-240V~50/60Hz 0.8A Output: (PD) 5.0V3.0A 15.0W or 9.0V3.0A 27.0W or 12.0V2.5A 30.0W or 15.0V2.0A 30.0W or 20.0V1.5A 30.0W (PPS)3.3V-11.0V3.0A (33.0W MAX)		
Battery	DC 3.87V, 22000mAh		
Rating	DC 3.87V from battery or DC 5V from adapter		
I/O Ports	Refer to users manual		
Hardware Version	TP769_A1_V1.0		
Software Version	Active8Pro_EEA_TP769_V1.0		



of 78 Report No.: S23081004401002

Note:

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

•	٦	
٠.	,	

Channel	Frequency (MHz)
00	2402
01	2404
	₩ ₹
2	X
38	2478
39	2480

1.2 INFORMATION ABOUT THE EUT
a) The type of modulation used by the equipment:
☐ FHSS
b) In case of FHSS modulation:
In case of non-Adaptive Frequency Hopping equipment:
The number of Hopping Frequencies:
In case of Adaptive Frequency Hopping Equipment:
The maximum number of Hopping Frequencies:
The minimum number of Hopping Frequencies:
The (average) Dwell Time:
c) Adaptive / non-adaptive equipment:
non-adaptive Equipment
adaptive Equipment without the possibility to switch to a non-adaptive mode
adaptive Equipment which can also operate in a non-adaptive mode
d) In case of adaptive equipment:
The maximum Channel Occupancy Time implemented by the equipment: ./. ms
☐ The equipment has implemented an LBT based DAA mechanism
In case of equipment using modulation different from FHSS:
The equipment is Frame Based equipment
☐ The equipment is Load Based equipment
☐ The equipment can switch dynamically between Frame Based and Load Based equipment
The CCA time implemented by the equipment: / μs
The equipment has implemented a non-LBT based DAA mechanism
The equipment can operate in more than one adaptive mode



) In case of non-adaptive Equipment:	
The maximum RF Output Power (e.i.r.p.):	
The maximum (corresponding) Duty Cycle:	
Equipment with dynamic behaviour, that behaviour is des	cribed here. (e.g. the different combinations
of duty cycle and corresponding power levels to be decla	red):
The worst case operational mode for each of the follo	wing tests:
RF Output Power	5
GFSK	
Power Spectral Density	
GFSK	
Duty cycle, Tx-Sequence, Tx-gap	*
N/A	
Accumulated Transmit time, Frequency Occupation & F	lopping Sequence (only for FHSS equipment)
N/A	
Hopping Frequency Separation (only for FHSS equipment)	ent)
N/A	* * *
Medium Utilization	
N/A	4
Adaptivity	
N/A	* -
Receiver Blocking	* ***
GFSK	30 7 3
Nominal Channel Bandwidth	* 200
GFSK	
• Transmitter unwanted emissions in the OOB domain	→
GFSK	
• Transmitter unwanted emissions in the spurious domain	1 1
GFSK	* 300
Receiver spurious emissions	
GFSK	
) The different transmit operating modes (tick all that a	ipply):
Operating mode 1: Single Antenna Equipment	
⊠ Equipment with only one antenna	
Equipment with two diversity antennas but only on	e antenna active at any moment in time
 Smart Antenna Systems with two or more antenna antenna is used (e.g. IEEE 802.11™ [i.3] legacy mo Operating mode 2: Smart Antenna Systems - Multi 	
☐ Single spatial stream / Standard throughput / (e.g.	



High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1 High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2 NOTE 1: Add more lines if more channel bandwidths are supported. Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode) High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1 High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2 NOTE 2: Add more lines if more channel bandwidths are supported. h) In case of Smart Antenna Systems: • The number of Receive chains: The number of Transmit chains: symmetrical power distribution asymmetrical power distribution In case of beam forming, the maximum (additional) beam forming gain: dB NOTE: The additional beam forming gain does not include the basic gain of a single antenna. i) Operating Frequency Range(s) of the equipment: Operating Frequency Range 1: 2402 MHz to 2480 MHz Operating Frequency Range 2: MHz to MHz NOTE: Add more lines if more Frequency Ranges are supported. i) Nominal Channel Bandwidth(s): Nominal Channel Bandwidth 1: 1.029MHz (1M) Nominal Channel Bandwidth 2: 2.066MHz (2M) NOTE: Add more lines if more channel bandwidths are supported. k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.): Stand-alone Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment) Plug-in radio device (Equipment intended for a variety of host systems) I) The normal and the extreme operating conditions that apply to the equipment: Normal operating conditions (if applicable): Operating temperature: 15 °C ~35 °C Other (please specify if applicable): Extreme operating conditions: Operating temperature range: Minimum: -10°C Maximum 40°C Other (please specify if applicable): Minimum: Maximum ... Details provided are for the: stand-alone equipment combined (or host) equipment test jig



	ation(s) of the radio as	uipment power settin	gs and one or more antenna
The intended combin	ation(s) of the radio ed	1	
assemblies and their	corresponding e.i.r.p.	levels:	
Antenna Type: PIFA	Antenna		
🛚 Integral Antenna (information to be provide	ed in case of conducted	I measurements)
Antenna Gain: 1.	5 dBi		
If applicable, addition	onal beamforming gain (excluding basic antenna	a gain):dB
☐ Temporary R	F connector provided		
☐ No temporary	RF connector provided		
Dedicated Antenna	as (equipment with ante	nna connector)	
☐ Single power	level with corresponding	g antenna(s)	
☐ Multiple powe	er settings and correspor	nding antenna(s)	
Number of differ	ent Power Levels:		
Power Level 1:	dBm		
Power Level 2:	dBm		
Power Level 3: .	dBm		
NOTE 1: Add m	ore lines in case the equ	uipment has more powe	er levels.
NOTE 2: These	power levels are conduc	cted power levels (at ar	ntenna connector).
For each of the Power	Levels, provide the inter	nded antenna assembli	es, their corresponding gains
		to account the beamfor	ming gain (Y) if applicable
Power Level 1: Number of anter	dBm nna assemblies provided	d for this power level:	
Power Level 1: Number of anter Assembly #	dBm nna assemblies provided Gain (dBi)	d for this power level: e.i.r.p. (dBm)	
Power Level 1: Number of anter Assembly #	Gain (dBi)	e.i.r.p. (dBm)	
Power Level 1: Number of anter Assembly #	dBm nna assemblies provided Gain (dBi)	d for this power level: e.i.r.p. (dBm)	
Power Level 1: Number of anter Assembly # 1M 2M	dBm nna assemblies provided Gain (dBi) 1.5 1.5	e.i.r.p. (dBm) -2.31 -2.34	Part number or model name
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2:	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are	Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are	Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly #	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are	Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly #	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are	Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly #	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are	Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3 NOTE 4: Add m Power Level 3:	Gain (dBi) 1.5 1.5 ore rows in case more a dBm assemblies provided Gain (dBi) Gain (dBi)	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are d for this power level: e.i.r.p. (dBm)	Part number or model name supported for this power level. Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 NOTE 4: Add m Power Level 3: Number of anter Number of anter	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are d for this power level:	Part number or model name supported for this power level. Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3 NOTE 4: Add m Power Level 3: Number of anter Assembly #	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a dBm nna assemblies provided Gain (dBi) ore rows in case more a dBm nna dBm nna dBm nna dBm nna dBm nna dBm nna dBm dBm dBm dBm	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are d for this power level: e.i.r.p. (dBm)	Part number or model name supported for this power level. Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3 NOTE 4: Add m Power Level 3: Number of anter Assembly # 1	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are d for this power level:	Part number or model name supported for this power level. Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3 NOTE 4: Add m Power Level 3:	dBm nna assemblies provided Gain (dBi) 1.5 1.5 ore rows in case more a	e.i.r.p. (dBm) -2.31 -2.34 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are d for this power level:	Part number or model name supported for this power level. Part number or model name supported for this power level.



n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices: Details provided are for the: stand-alone equipment combined (or host) equipment test jig Supply Voltage AC mains State AC voltage V DC State DC voltage: DC 3.87V In case of DC, indicate the type of power source ☐ Internal Power Supply External Power Supply or AC/DC adapter: DC 5V Battery: DC 3.87V Other: o) Describe the test modes available which can facilitate testing: See clause 1.3 p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.): Bluetooth® q) If applicable, the statistical analysis referred to in clause 5.4.1 q) (to be provided as separate attachment) r) If applicable, the statistical analysis referred to in clause 5.4.1 r) (to be provided as separate attachment) s) Geo-location capability supported by the equipment: Yes The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3): GFSK(CH39)=0.98%(1M), GFSK(CH39)=0.66%(2M)



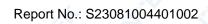
1.3 TEST CONDITIONS AND CHANNEL

A- (**)	Normal Test Conditions	Extreme Test Conditions
Temperature	15℃ - 35℃	40°C ~ -10°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.87V	/

Test Channel	EUT Channel	Test Frequency (MHz)
Lowest	CH00	2402
Middle	CH19	2440
Highest	CH39	2480

Note:

- (1) The HT 40° C and LT -10° C was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.
- (2) The measurements are performed at the highest, middle, lowest available channels.





1.4 DESCRIPTION OF T	EST CONDITION	ONS		* 4
				0
				* ~
	E-1			
	EUT	4		
	¥ .			
				4
				X
				3.00
				4,
				x 3
				*
and and				
2			 <u></u>	



1.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Tablet PC	Active 8 Pro	N/A	EUT
	4		AL 350	4
		<u>بر</u> بر		
	4 -			4
_				70, 4
		.0	- 30	

Item	Type	Shielded Type	Ferrite Core	Length	Note
					W
	^	F 3		1	
太			4	A	. 4
				4, 4	<u>, L</u>
			4		

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



1.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
EMI Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
Turn Table	EM	SC100_1	60531	N/A	N/A	N/A
Antnna Mast	- EM	SC100	N/A	N/A	N/A	N/A
Horn Antenna	EM	EM-AH-10180	2011071402	2023.03.27	2024.03.26	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2023.03.27	2024.03.26	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
Filter	TRILTHIC	2400MHz	29	2023.03.27	2024.03.26	3 year
Attenuator	Weinschel	33-10-33	AR4010	2023.03.27	2024.03.26	3 year
Attenuator	Weinschel	24-20-34	BP4485	2023.03.27	2024.03.26	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2023.03.27	2024.03.26	1 year
Power Splitter	Mini-Circuits/ USA	ZN2PD-63-S+	SF025101428	2023.03.27	2024.03.26	3 year
Coupler	Mini-Circuits	ZADC-10-63-S +	SF794101410	2023.03.27	2024.03.26	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2020.07.17	2023.07.16	3 year
Attenuator	Agilent	8495B	MY42147029	2023.03.27	2024.03.26	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2022.06.17 2023.06.15	2023.06.16 2023.06.14	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	ETSI EN 300 328 V2.2.2 (2019-07)	4
Clause	Test Item	Results
	TRANSMITTER PARAMETERS	بار.
4.3.2.2	RF Output Power	Pass
4.3.2.3	Power Spectral Density	Pass
4.3.2.4	Duty cycle, Tx-Sequence, Tx-gap	Not Applicable (See Note 1/2)
4.3.2.5	Medium Utilization (MU) factor	Not Applicable (See Note 1/2)
4.3.2.6	Adaptivity	Not Applicable (See Note 1)
4.3.2.7	Occupied Channel Bandwidth	Pass
4.3.2.8	Transmitter unwanted emission in the OOB domain	Pass
4.3.2.9	Transmitter unwanted emissions in the spurious domain	Pass
4	RECEIVER PARAMETERS	
1.3.2.10	Receiver Spurious Emissions	Pass
4.3.2.11	Receiver Blocking	Pass

Note

- These requirements do not apply for equipment with a maximum declared RF output power of less than 10 dBm EIRP or for equipment when operating in a mode where the RF output power is less than 10 dBm EIRP.
- 2. These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode
- 3. The antenna gain provided by customer is used to calculate the EIRP result. NTEK is not responsible for the accuracy of antenna gain parameter.



2.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Shenzhen 518126 P.R. China

FCC Registered No.: 463705 IC Registered No.:9270A-1

CNAS Registration No.:L5516

2.2 MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1[4] and shall correspond to an expansion factor(coverage factor) k=1.96 or k=2 (which provide confidence levels of respectively 95 % and 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement uncertainty

	weastrement uncertainty				
No.	Item	Uncertainty (P=95)			
1	Occupied Channel Bandwidth	± 4.7%			
2	RF output Power,conducted	± 0.9dB			
3	Power Spectral Density, conducted	± 2.6dB			
4	Unwanted emissions, conducted	± 2.2dB			
5	All emissions,radiated	± 5.3dB			
6	Temperature	± 0.5°C			
7	Humidity	± 2.0%			
8	Time	± 1.0%			



3. TEST PROCEDURES AND RESULLS

3.1 EQUIVALENT ISOTROPIC RADIATED POWER

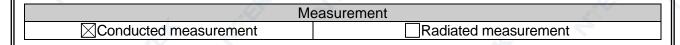
3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

Refer to chapter 4.3.2.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

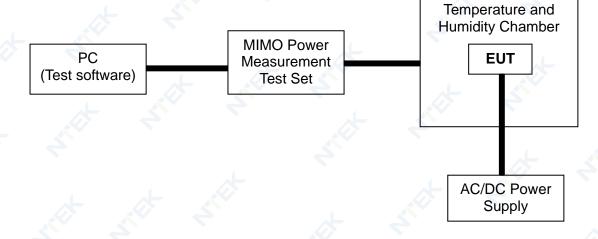
RF OUTPUT POWER				
Condition	Limit			
☐ Non-adaptive wide band modulations systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.			
Adaptive wide band modulations systems	≤20dBm			

3.1.2 TEST PROCEDURE

Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)



3.1.3 TEST SETUP







3.1.4 TEST RESULTS

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature :	20℃	Relative Humidity:	55 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX Low channel / Middle Channel / High Channel		

Test data reference attachment



3.2. PEAK POWER DENSITY

3.2.1 LIMITS OF POWER SPECTRAL DENSITY

Refer to chapter 4.3.2.3.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RF OUTPUT POWER				
Condition Limit				
For equipment using wide band modulations other than FHSS	≤10 dBm/MHz			

3.2.2 TEST PROCEDURE

Refer to chapter 5.4.3.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	1 = 1 = 1 = 1 = 1			
Measurement				
	Radiated measurement			

The setting of the Spectrum Analyzer

Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Detector	RMS
Sweep Point	> 8 350; for spectrum analysers not supporting this number of
Sweep i onit	sweep points, the
	frequency band may be segmented
	For non-continuous transmissions: 2 x Channel Occupancy Time
* 5	× number of sweep points
Sweep time:	For continuous transmissions: 10 s; the sweep time may be
7	increased further until a value where the sweep time has no
* 3	further impact anymore on the RMS value of the signal.
RBW / VBW	10KHz / 30KHz

3.2.3 TEST SETUP







of 78 Report No.: S23081004401002

3.2.4 TEST RESULTS

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature :	26℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX-GFSK(CH00/CH19/CH39)		<i>*</i> 3

Test data reference attachment



3.3. OCCUPIED CHANNEL BANDWIDTH

3.3.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH

Refer to chapter 4.3.2.7.3 of ETSI EN 300 328 V2.2.2 (2019-07)

OCCUPIED CHANNEL BANDWIDTH				
4	Condition	Limit		
All types of equipment using wide band modulations other than FHSS		Shall fall completely within the band 2400 to 2483.5 MHz		
Additional	For non-adaptive using wide band modulations other than FHSS system and E.I.R.P >10 dBm	Less than 20 MHz		
requirement	For non-adaptive frequency hopping system and E.I.R.P >10 dBm	Less than 5 MHz		

3.3.2 TEST PROCEDURE

Refer to chapter 5.4.7.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	M	easurement		
⊠Conducted	measurement	Radiated measurement		
The setting of the Spe	ctrum Analyzer			
Center Frequency	The centre frequen	cy of the channel under test		
Frequency Span	2 x Nominal Chann	2 × Nominal Channel Bandwidth		
Detector	RMS			
RBW	~ 1 % of the span w	vithout going below 1 %		
VBW	3 × RBW			
Trace	Max hold			
Sweep time	1s	7		

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



These measurements only were performed at normal test conditions. The measurement shall be performed only on the lowest and the highest frequency within the ststed frequency range. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software has been activated to set the EUT on specific status.





3.3.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature:	26℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX-GFSK(CH00/CH19/CH39)		L 1/2

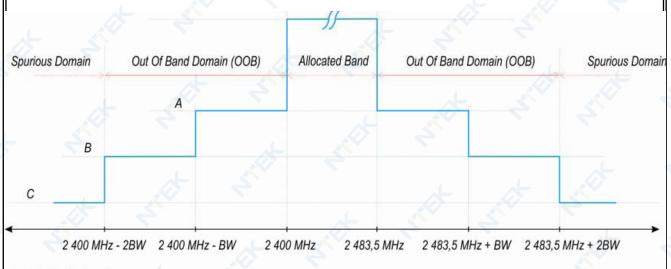
Test data reference attachment



3.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

3.4.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN Refer to chapter 4.3.2.8.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN			
Condition Limit			
Under all test conditions	The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in below figure.		



A: -10 dBm/MHz e.i.r.p.

B: -20 dBm/MHz e.i.r.p.

C: Spurious Domain limits

BW = Occupied Channel Bandwidth in MHz or 1 MHz whichever is greater

3.4.2 TEST PROCEDURE

Refer to chapter 5.4.8.2 of ETSI EN 300 328 V2.2.2 (2019-07)

M	leasurement
	Radiated measurement
The setting of the Spectrum Analyzer	
Spon OU-	

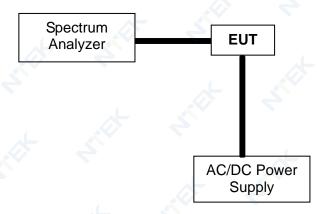
Span	0Hz
Filter Mode	Channel Filter
Trace Mode	Max Hold
Trigger Mode	Video trigger; in case video triggering is not possible, an external trigger source may be used
Detector	RMS
Sweep Point / Sweep Mode	Sweep Time [s] / (1 µs) or 5 000 whichever is greater/ Continuous
RBW / VBW	1MHz / 3MHz



3.4.3 DEVIATION FROM TEST STANDARD

No deviation

3.4.4 TEST SETUP



According to the ETSI EN 300328 V2.2.2 clause 5.4.8.1: These measurements shall only be performed at normal test conditions. For equipment using FHSS modulation, the measurements shall be performed during normal operation (hopping).

For equipment using wide band modulations other than FHSS, the measurement shall be performed at the lowest and the highest channel on which the equipment can operate. These operating channels shall be recorded.

The equipment shall be configured to operate under its worst case situation with respect to output power.

If the equipment can operate with different Nominal Channel Bandwidths (e.g. 20 MHz and 40 MHz), then each channel bandwidth shall be tested separately.





3.4.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	TX-GFSK(CH00/CH39)		* 2

Test data reference attachment



3.5. ADAPTIVE (CHANNEL ACCESS MECHANISM)

3.5.1 APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LILIT FOR WIDE BAND MODULATION TECHNIQUES

Refer to chapter ETSI EN 300 328 V2.2.2 (2019-07)

Tolor to oriaptor 2 For 2	*	Operational Mode			
1	LBT based Detect and			nd Avoid	
Requirement	Non-LBT based Detect and Avoid	Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced as note 2)	
Minimum Clear Channel Assessment (CCA) Time	NA	not less than 18 us (see note 1)	(see note 2)	not less than 18 us (see note 1)	
Maximum Channel Occupancy (COT) Time	<40 ms	1ms to 10 ms	(see note 2)	(13/32)*q ms (see note 3)	
Minimum Idle Period	5 % minimum of 100 µs	5% of COT	(see note 2)	NA	
Extended CCA check	← NA	NA	(see note 2)	R*CCA (see note 4)	
Short Control Signalling Transmissions	Maximum duty cycle of 10% within an observation period of 50 ms (see note 5)			on period of 50 ms	

Note 1: The CCA time used by the equipment shall be declared by the supplier.

Note 2: Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using energy detect as described in IEEE 802.11™-2012 [i.3], clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-2011 [i.4], clause 4, clause 5 and clause 8 providing the equipment complies with the conformance requirements referred to in clause 4.3.2.6.3.4.

Note 3: q is selected by the manufacturer in the range [4...32]

Note 4: The value of R shall be randomly selected in the range [1...q]

Note 5: Adaptive equipment may or may not have Short Control Signaling Transmissions.

Interference threshold level

The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

 $TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW / Pout}) \text{ (Pout in mW e.i.r.p.)}$



Table 9: Unwanted Signal parameters

Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
-30/ sufficient to maintain the link(see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)

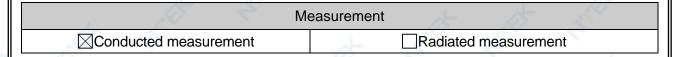
NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.

NOTE 2: A typical value which can be used in most cases is -50 dBm/MHz.

NOTE 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.

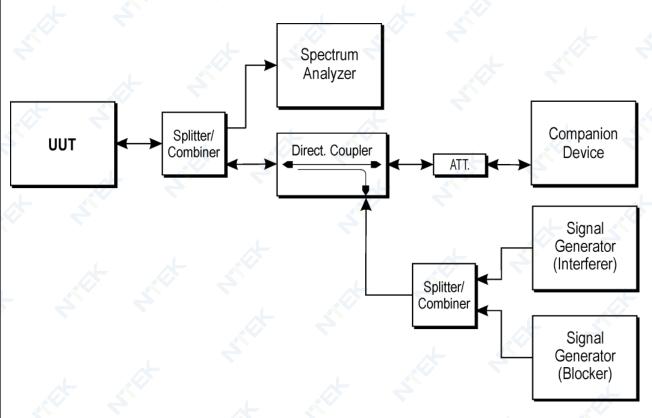
3.5.2 TEST PROCEDURE

Refer to chapter 5.4.6.2 of ETSI EN 300 328 V2.2.2 (2019-07)



Test method please refer to the 5.4.6.2.1.4 of ETSI EN 300 328 V2.2.2 (2019-07)

3.5.3 TEST SETUP CONFIGURATION

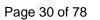




3.5.4 LIST OF MEASUREMENTS

4 30 3	UUT operational Mode	
Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced)
A 2	V	* 3, ,

Clause	Test Parameter	Remarks	PASS/FAIL
4.3.2.5.2.2.1	Adaptive (Frame Based Equipment)	Not Applicable	N/A
4.3.2.5.2.2.2	Adaptive (Load Based Equipment)	N/A	N/A
4.3.2.5.3	Short Control Signaling Transmissions	N/A	N/A





3.5.5 TEST RESULTS

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Power :	N/A
Test Mode :	N/A		x 3

Note: Not Applicable



3.6. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

3.6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN Refer to chapter 4.3.2.9.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN				
Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Bandwidth		
30 MHz to 47 MHz	-36dBm	100 kHz		
47 MHz to 74 MHz	-54dBm	100 kHz		
74 MHz to 87.5 MHz	-36dBm	100 kHz		
87.5 MHz to 118 MHz	-54dBm	100 kHz		
118 MHz to 174 MHz	-36dBm	100 kHz		
174 MHz to 230 MHz	-54dBm	100 kHz		
230 MHz to 470 MHz	-36dBm	100 kHz		
470 MHz to 694 MHz	-54dBm	100 kHz		
694 MHz to 1 GHz	-36dBm	100 kHz		
1 GHz ~ 12.75 GHz	-30dBm	1 MHz		

3.6.2 TEST PROCEDURE

Refer to chapter 5.4.9.2 of ETSI EN 300 328 V2.2.2 (2019-07)

N N	leasurement
	⊠Radiated measurement

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)	
VBW	300K(<1GHz) / 3M(>1GHz)	* 5

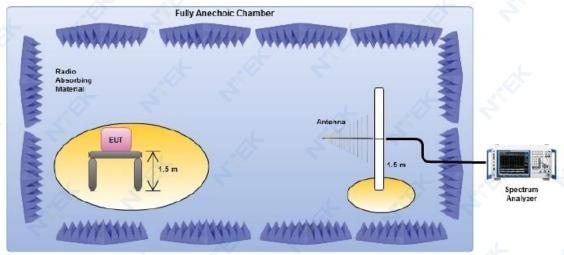
3.6.3 DEVIATION FROM TEST STANDARD

No deviation



3.6.4 TEST SETUP

Radiated measurement:



Conducted measurement:



- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
- 3. The equipment was configured to operate under its worst case situation with respect to output power.
- 4. The test setup has been constructed as the normal use condition. Controlling software has been activated to set the EUT on specific status.



3.6.5 TEST RESULTS(Radiated measurement)

BELOW 1 GHz WORST- CASE DATA(30 MHz ~ 1GHz)

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature:	24℃	Relative Humidity:	57 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TXGESK(CH19)		L

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBm)	(dBm) (dB) (dBm)		(dBm) (dB)		4	
V	34.589	-69.94	11.08	-58.86	-36	-22.86	peak	
V	99.709	-69.23	9.95	-59.28	-54	-5.28	peak	
V	211.084	-77.74	11.04	-66.70	-54	-12.70	peak	
V	385.849	-76.49	9.57	-66.92	-36	-30.92	peak	
V	609.625	-74.98	10.86	-64.12	-54	-10.12	peak	
Н	46.013	-73.74	10.51	-63.23	-36	-27.23	peak	
H	93.959	-69.73	9.86	-59.87	-54	-5.87	peak	
Н	214.244	-69.12	9.67	-59.45	-54	-5.45	peak	
Н	304.064	-67.22	11.36	-55.86	-36	-19.86	peak	
Н	648.152	-70.5	10.32	-60.18	-54	-6.18	peak	

Remark:

^{1.}Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.2.All the modes had been tested, but only the worst data recorded in the report.



ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature:	26℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX-GFSK (CH00/CH19/CH39)		4

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
	4	O)	peration freq	uency:2402	<u></u>		
V	2577.766	-69	10.04	-58.96	-30	-28.96	peak
V	4288.834	-75.93	9.58	-66.35	-30	-36.35	peak
V	2187.521	-71.9	10.53	-61.37	-30	-31.37	peak
V	3399.252	-74.54	10.65	-63.89	-30	-33.89	peak
Н	2360.869	-69.74	10.83	-58.91	-30	-28.91	peak
Н	3921.968	-73.58	11.07	-62.51	-30	-32.51	peak
Н	2369.082	-75.21	10.74	-64.47	-30	-34.47	peak
H	4947.127	-75	11.31	-63.69	-30	-33.69	peak
		O	peration freq	uency:2440	- J	1	
V	2769.725	-67.69	10.97	-56.72	-30	-26.72	peak
V	5605.133	-74.86	9.77	-65.09	-30	-35.09	peak
V	2059.23	-67.29	11.48	-55.81	-30	-25.81	peak
V	3524.328	-71.75	10.84	-60.91	-30	-30.91	peak
Н	2934.472	-75.49	9.93	-65.56	-30	-35.56	peak
Н	4522.892	-76.93	11.34	-65.59	-30	-35.59	peak
Н	2920.975	-76.18	9.65	-66.53	-30	-36.53	peak
Н	5157.594	-70.96	9.59	-61.37	-30	-31.37	peak
		O	peration freq	uency:2480			
V	2678.475	-67.07	9.93	-57.14	-30	-27.14	peak
V	3239.241	-75.64	10.19	-65.45	-30	-35.45	peak
V	2446.267	-68.5	10.59	-57.91	-30	-27.91	peak
V	3459.728	-75.42	11.39	-64.03	-30	-34.03	peak
Н	2977.656	-68.38	9.99	-58.39	-30	-28.39	peak
Н	3189.289	-76.17	11.47	-64.70	-30	-34.70	peak
Н	2186.601	-77.61	10.96	-66.65	-30	-36.65	peak
Н	5831.366	-75.18	10.50	-64.68	-30	-34.68	peak

- Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
 All the modes had been tested, but only the worst data recorded in the report.

3.6.6 TEST RESULTS (Conducted measurement)

Test data reference attachment



3.7. RECEIVER SPURIOUS RADIATION

3.7.1 LIMITS OF RECEIVER SPURIOUS RADIATION

Refer to chapter 4.3.2.10.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RECEIVER SPURIOUS EMISSIONS				
Frequency Range	Measurement Bandwidth			
30 MHz ~ 1 GHz	-57dBm	100KHz		
1 GHz ~ 12.75 GHz	-47dBm	1MHz		

3.7.2 TEST PROCEDURE

Refer to chapter 5.4.10.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	Measurement		4
☐Conducted measurement		□ Radiated measurement	

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)			4
VBW	300K(<1GHz) / 3M(>1GHz)	4	-	.

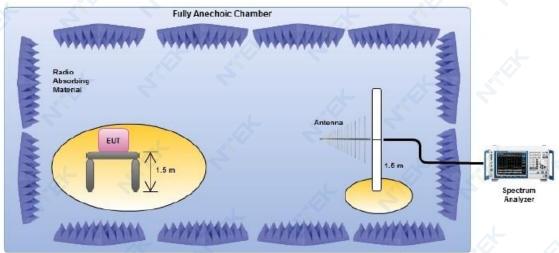
3.7.3 DEVIATION FROM TEST STANDARD

No deviation

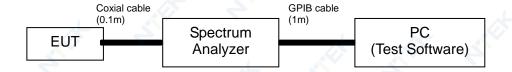


3.7.4 TEST SETUP

Radiated measurement:



Conducted measurement:



- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. Testing was performed when the equipment was in a receive-only mode.
- 3. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
- 4. The test setup has been constructed as the normal use condition. Controlling software has been activated to set the EUT on specific status.



3.7.5 TEST RESULTS(Radiated measurement)

RX BELOW 1 GHz WORST- CASE DATA(30 MHz ~ 1GHz)

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature:	26℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	RX Mode-GFSK(CH19)		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
44.758	-82.95	12.98	-69.97	-57	-12.97	peak
104.978	-81.75	11.67	-70.08	-57	-13.08	peak
193.172	-82.31	18.94	-63.37	-57	-6.37	peak
374.591	-77.94	11.65	-66.29	-57	-9.29	peak
517.99	-79.77	11.45	-68.32	-57	-11.32	peak
32.053	-82.97	18.60	-64.37	-57	-7.37	peak
93.775	-81.57	18.11	-63.46	-57	-6.46	peak
212.116	-84.23	10.30	-73.93	-57	-16.93	peak
239.999	-80.98	15.00	-65.98	-57	-8.98	peak
476.858	-81.25	14.63	-66.62	-57	-9.62	peak
	(MHz) 44.758 104.978 193.172 374.591 517.99 32.053 93.775 212.116 239.999	(MHz) (dBm) 44.758 -82.95 104.978 -81.75 193.172 -82.31 374.591 -77.94 517.99 -79.77 32.053 -82.97 93.775 -81.57 212.116 -84.23 239.999 -80.98	(MHz) (dBm) (dB) 44.758 -82.95 12.98 104.978 -81.75 11.67 193.172 -82.31 18.94 374.591 -77.94 11.65 517.99 -79.77 11.45 32.053 -82.97 18.60 93.775 -81.57 18.11 212.116 -84.23 10.30 239.999 -80.98 15.00	(MHz) (dBm) (dB) (dBm) 44.758 -82.95 12.98 -69.97 104.978 -81.75 11.67 -70.08 193.172 -82.31 18.94 -63.37 374.591 -77.94 11.65 -66.29 517.99 -79.77 11.45 -68.32 32.053 -82.97 18.60 -64.37 93.775 -81.57 18.11 -63.46 212.116 -84.23 10.30 -73.93 239.999 -80.98 15.00 -65.98	(MHz) (dBm) (dB) (dBm) (dBm) 44.758 -82.95 12.98 -69.97 -57 104.978 -81.75 11.67 -70.08 -57 193.172 -82.31 18.94 -63.37 -57 374.591 -77.94 11.65 -66.29 -57 517.99 -79.77 11.45 -68.32 -57 32.053 -82.97 18.60 -64.37 -57 93.775 -81.57 18.11 -63.46 -57 212.116 -84.23 10.30 -73.93 -57 239.999 -80.98 15.00 -65.98 -57	(MHz) (dBm) (dB) (dBm) (dBm)

Remark:

- 1. Emission Level = Meter Reading + Factor, Margin= Emission Level Limit
- 2. All the modes had been tested, but only the worst data recorded in the report.



RX ABOVE 1 GHz WORST- CASE DATA(1GHz ~ 12.75GHz)

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature:	24 ℃	Relative Humidity	54%
Pressure:	1010 hPa	Test Power :	DC 3.87V
Test Mode :	RX Mode-GFSK(CH19)	-	* *

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Kemark
V	2748.765	-78.34	9.94	-68.40	-47	-21.40	peak
V	3584.079	-84.2	9.82	-74.38	-47	-27.38	peak
_ V	2822.929	-82.3	10.02	-72.28	-47	-25.28	peak
V	3439.017	-82.54	16.13	-66.41	-47	-19.41	peak
Н	2102.195	-84.38	10.11	-74.27	-47	-27.27	peak
Н	5526.445	-79.43	10.68	-68.75	-47	-21.75	peak
Н	2842.488	-79.3	7.00	-72.30	-47	-25.30	peak
H	4649.496	-79.51	14.56	-64.95	-47	-17.95	peak

^{1.} Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit

3.7.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

^{2.} All the modes had been tested, but only the worst data recorded in the report.



3.8. RECEIVER BLOCKING

3.8.1 PERFORMANCE CRITERIA

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1.t)).

3.8.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal Frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2524 2584 2674		F. C.

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 20 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.



Table 15: Receiver Blocking parameters receiver category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal Frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 10 dB)	2 380	-34	CW
or (-74 dBm + 10 dB) whichever is less	2 504		1 x 3
(see note 2)	2 300	. *	
	2 584		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

☐ Table 16: Receiver Blocking parameters receiver category 3 equipment

Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking
companion device (dBm)	Frequency (MHz)	(dBm) (see note 2)	signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 20 dB)	2 380	-34	cw
or (-74 dBm + 20 dB) whichever is less	2 504	4	
(see note 2)	2 300	A	
(000 11010 2)	2 584	* * * * * * * * * *	A

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to Pmin + 30 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.



3.8.3 TEST PROCEDURE

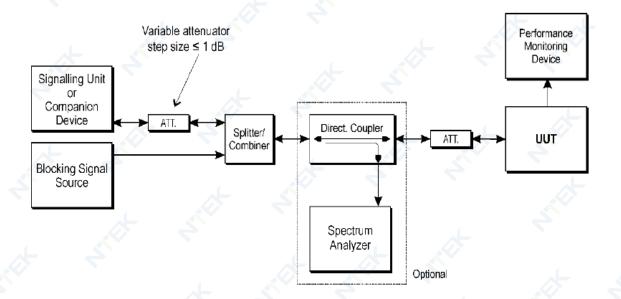
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
☐Radiated mea	surement

3.8.4 DEVIATION FROM TEST STANDARD

No deviation

3.8.5 TEST SETUP





3.8.6 TEST RESULTS

EUT:	Tablet PC	Model Name :	Active 8 Pro
Temperature:	24 ℃	Relative Humidity	54%
Pressure:	1010 hPa	Test Power :	DC 3.87V
Test Mode :	de : GFSK-RX Mode (CH00/CH39)- 1M		

CH00:

receiver category 3

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER	PER Limit %
Note(1)				
4	2 380		0.19%	≤10%
-58.88	2 504	-34	0.72%	21070
-50.00	2 300	-34	0.29%	≤10%
	2 584	٨_	0.38%	21070

CH39:

receiver category 3

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER	PER Limit %
	2 380		0.08%	44.007
-58.88	2 504	-34	0.10%	≤10%
00.00	2 300		0.98%	≤10%
	2 584		0.05%	≥10%

Note: (1) The above results were obtained from laboratory tests.





EUT: Tablet PC Model Name: Active 8 Pro
Temperature: 24 °C Relative Humidity 54%
Pressure: 1010 hPa Test Power: DC 3.87V
Test Mode: GFSK-RX Mode (CH00/CH39)- 2M

CH00:

receiver category 3

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER	PER Limit %
<u></u>	2 380	4	0.66%	≤10%
-55.85	2 504	-34	0.59%	
33.03	2 300	34	0.20%	≤10%
	2 584		0.65%	410/0

CH39:

receiver category 3

Wanted signal	Blocking signal	Blocking		PER
mean power		signal power	PER	
from		4		Limit
companion	Frequency (MHz)	(dBm)		↓
device (dBm)	Frequency (WHZ)	(dBiii)	%	%
Note(1)	21			4,
	2 380		0.36%	
-55.85	2 504	-34	0.58%	≤10%
-33.03	2 300	-34	0.26%	<100/
	2 584	6	0.32%	≤10%

Note: (1) The above results were obtained from laboratory tests.

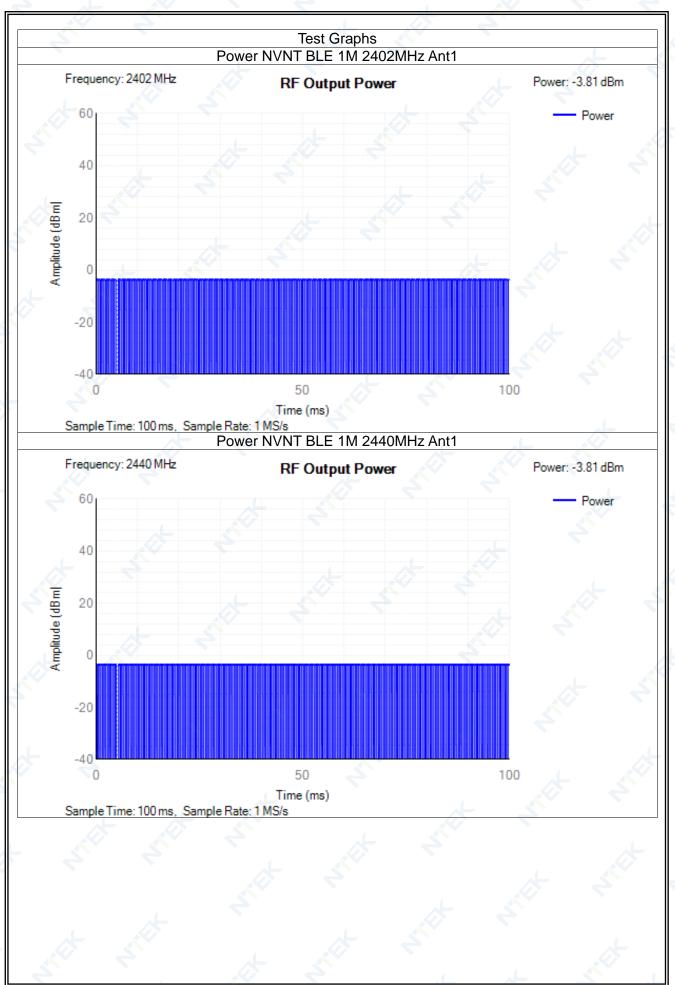


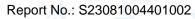
4. TEST RESULTS

1М:

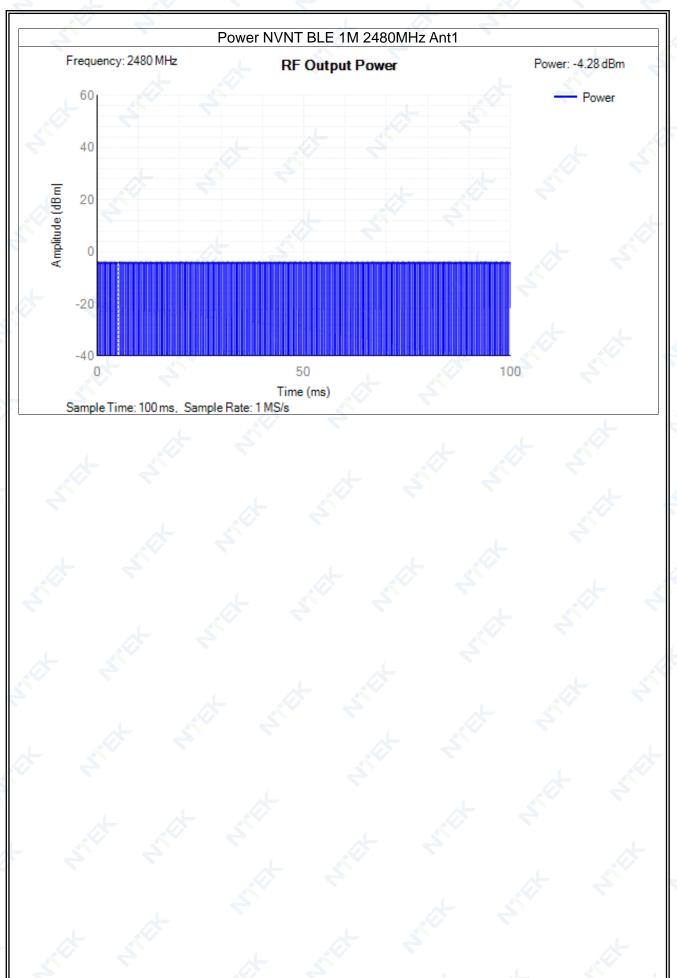
4.1.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE-1M	2402	-3.81	161	-2.31	20	Pass
NVNT	BLE-1M	2440	-3.81	161	-2.31	20	Pass
NVNT	BLE-1M	2480	-4.28	160	-2.78	20	Pass
NVLT	BLE-1M	2402	-4.66	161	-3.16	20	Pass
NVLT	BLE-1M	2440	-4.59	161	-3.09	20	Pass
NVLT	BLE-1M	2480	-4.82	161	-3.32	20	Pass
NVHT	BLE-1M	2402	-4.72	161	-3.22	20	Pass
NVHT	BLE-1M	2440	-4.49	161	-2.99	20	Pass
NVHT	BLE-1M	2480	-4.62	161	-3.12	20	Pass







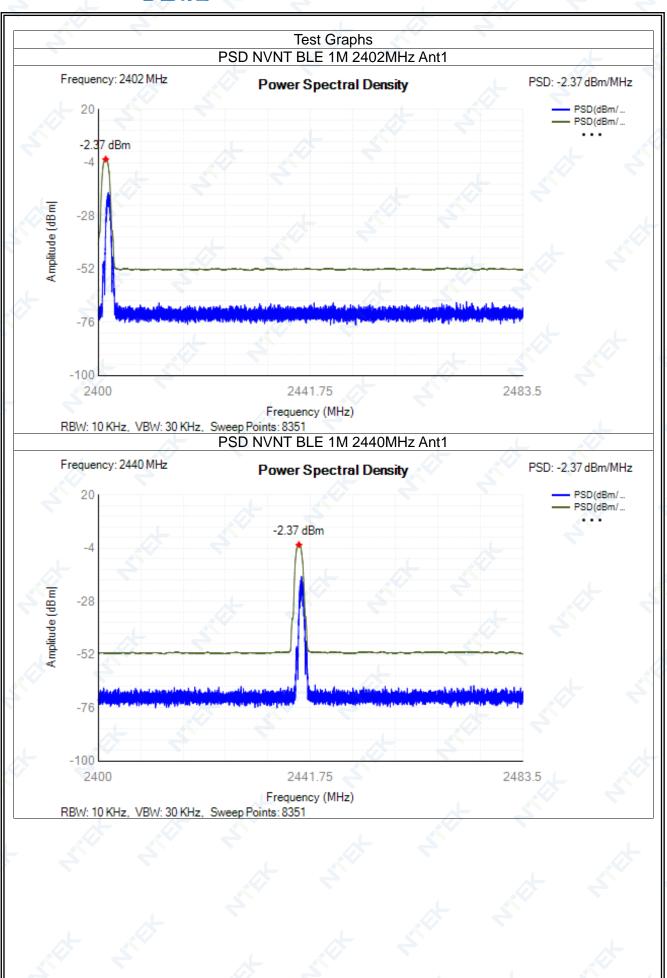




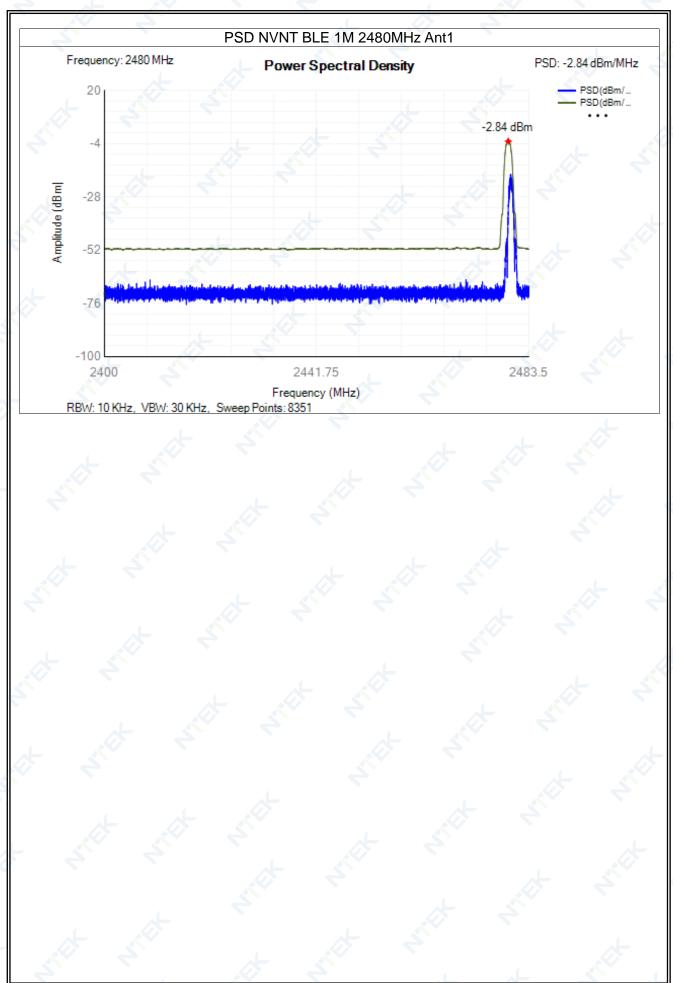


Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-2.37	10	Pass
NVNT	BLE 1M	2440	Ant1	-2.37	10	Pass
NVNT	BLE 1M	2480	Ant1	-2.84	10	Pass











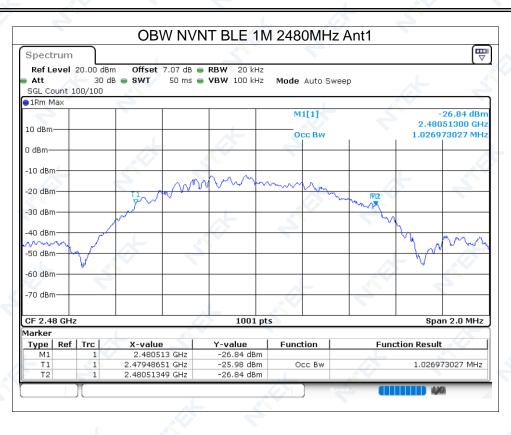


Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	2402.001	1.029	2401.487	2402.515	2400 - 2483.5MHz	Pass
NVNT	BLE 1M	2440	Ant1	2440	1.027	2439.487	2440.513	2400 - 2483.5MHz	Pass
NVNT	BLE 1M	2480	Ant1	2480	1.027	2479.487	2480.513	2400 - 2483.5MHz	Pass



Page 51 of 78







4.1.4 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	2399.5	-44.51	-10	Pass
NVNT	BLE 1M	2402	Ant1	2399.471	-44.15	-10	Pass
NVNT	BLE 1M	2402	Ant1	2398.471	-44.03	-20	Pass
NVNT	BLE 1M	2402	Ant1	2398.442	-44	-20	Pass
NVNT	BLE 1M	2402	Ant1	2484	-43.82	-10	Pass
NVNT	BLE 1M	2402	Ant1	2485	-43.79	-20	Pass
NVNT	BLE 1M	2480	Ant1	2399.5	-54.48	-10	Pass
NVNT	BLE 1M	2480	Ant1	2398.5	-54.08	-20	Pass
NVNT	BLE 1M	2480	Ant1	2484	-53.61	-10	Pass
NVNT	BLE 1M	2480	Ant1	2484.027	-53.57	-10	Pass
NVNT	BLE 1M	2480	Ant1	2485.027	-53.63	-20	Pass
NVNT	BLE 1M	2480	Ant1	2485.054	-53.64	-20	Pass



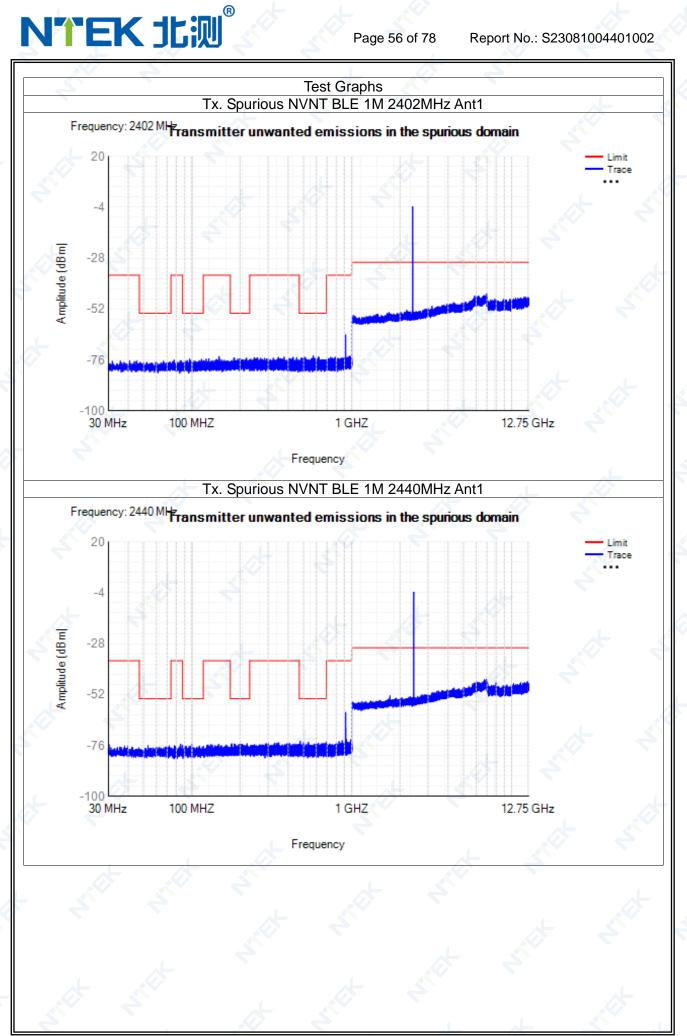
Test Graphs Tx. Emissions OOB NVNT BLE 1M 2402MHz Ant1 Frequency: 2402 Hransmitter unwanted emissions in the out-of-band domain Limit OOB -20Amplitude (dBml -60 -80 -1002397.442 2398.721 2400 2483.5 2484.75 2486 RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001 Tx. Emissions OOB NVNT BLE 1M 2480MHz Ant1 Frequency: 2480 Hransmitter unwanted emissions in the out-of-band domain Limit OOB -20 Amplitude (dBm) -40 -60-80 -100 2397.5 2398.75 2483.5 2400 2484.777 2486.054 Frequency (MHz) RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001



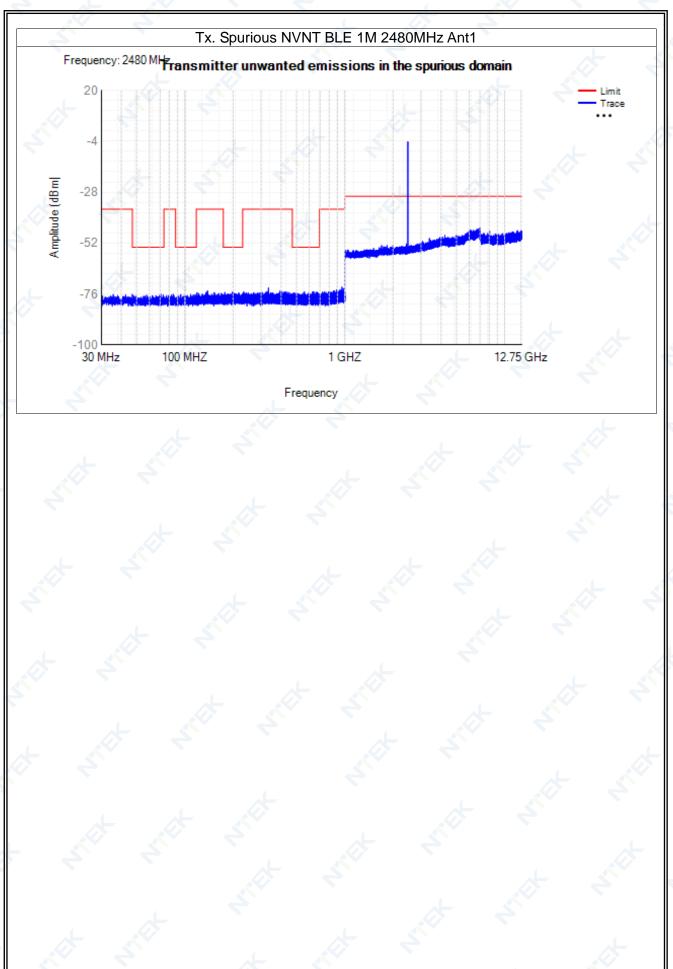
4.1.5 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	30 -47	40.80	-76.29	NA	-36	Pass
NVNT	BLE 1M	2402	Ant1	47 -74	66.45	-76.54	NA	-54	Pass
NVNT	BLE 1M	2402	Ant1	74 -87.5	77.50	-76.03	NA	-36	Pass
NVNT	BLE 1M	2402	Ant1	87.5 -118	96.80	-75.45	NA	-54	Pass
NVNT	BLE 1M	2402	Ant1	118 -174	148.15	-74.28	NA	-36	Pass
NVNT	BLE 1M	2402	Ant1	174 -230	183.10	-74.97	NA	-54	Pass
NVNT	BLE 1M	2402	Ant1	230 -470	377.80	-74.56	NA NA	-36	Pass
NVNT	BLE 1M	2402	Ant1	470 -694	574.50	-73.98	NA	-54	Pass
NVNT	BLE 1M	2402	Ant1	694 -1000	914.95	-64.08	NA	-36	Pass
NVNT	BLE 1M	2402	Ant1	1000 -2398	2203.50	-52.57	NA	-30	Pass
NVNT	BLE 1M	2402	Ant1	2485.5 -12750	6967.00	-44.83	NA NA	-30	Pass
NVNT	BLE 1M	2440	Ant1	30 -47	30.30	-75.54	NA	-36	Pass
NVNT	BLE 1M	2440	Ant1	47 -74	53.20	-76.00	NA	-54	Pass
NVNT	BLE 1M	2440	Ant1	74 -87.5	84.95	-75.31	NA	-36	Pass
NVNT	BLE 1M	2440	Ant1	87.5 -118	99.95	-75.44	NA	-54	Pass
NVNT	BLE 1M	2440	Ant1	118 -174	147.10	-75.37	NA	-36	Pass
NVNT	BLE 1M	2440	Ant1	174 -230	177.70	-75.09	NA	-54	Pass
NVNT	BLE 1M	2440	Ant1	230 -470	349.35	-74.59	NA	-36	Pass
NVNT	BLE 1M	2440	Ant1	470 -694	475.70	-73.93	NA	-54	Pass
NVNT	BLE 1M	2440	Ant1	694 -1000	914.90	-60.38	NA	-36	Pass
NVNT	BLE 1M	2440	Ant1	1000 -2398	1732.00	-52.56	NA	-30	Pass
NVNT	BLE 1M	2440	Ant1	2485.5 -12750	6928.50	-44.77	NA	-30	Pass
NVNT	BLE 1M	2480	Ant1	30 -47	46.90	-76.18	NA	-36	Pass
NVNT	BLE 1M	2480	Ant1	47 -74	70.50	-75.95	NA	-54	Pass
NVNT	BLE 1M	2480	Ant1	74 -87.5	84.60	-76.12	NA	-36	Pass
NVNT	BLE 1M	2480	Ant1	87.5 -118	108.55	-76.16	NA	-54	Pass
NVNT	BLE 1M	2480	Ant1	118 -174	138.20	-74.64	NA	-36	Pass
NVNT	BLE 1M	2480	Ant1	174 -230	198.25	-75.07	NA	-54	Pass
NVNT	BLE 1M	2480	Ant1	230 -470	333.60	-73.12	NA	-36	Pass
NVNT	BLE 1M	2480	Ant1	470 -694	629.95	-74.86	NA	-54	Pass
NVNT	BLE 1M	2480	Ant1	694 -1000	960.55	-72.74	NA	-36	Pass
NVNT	BLE 1M	2480	Ant1	1000 -2398	2002.00	-53.00	NA	-30	Pass
NVNT	BLE 1M	2480	Ant1	2485.5 -12750	6993.50	-44.90	NA	-30	Pass









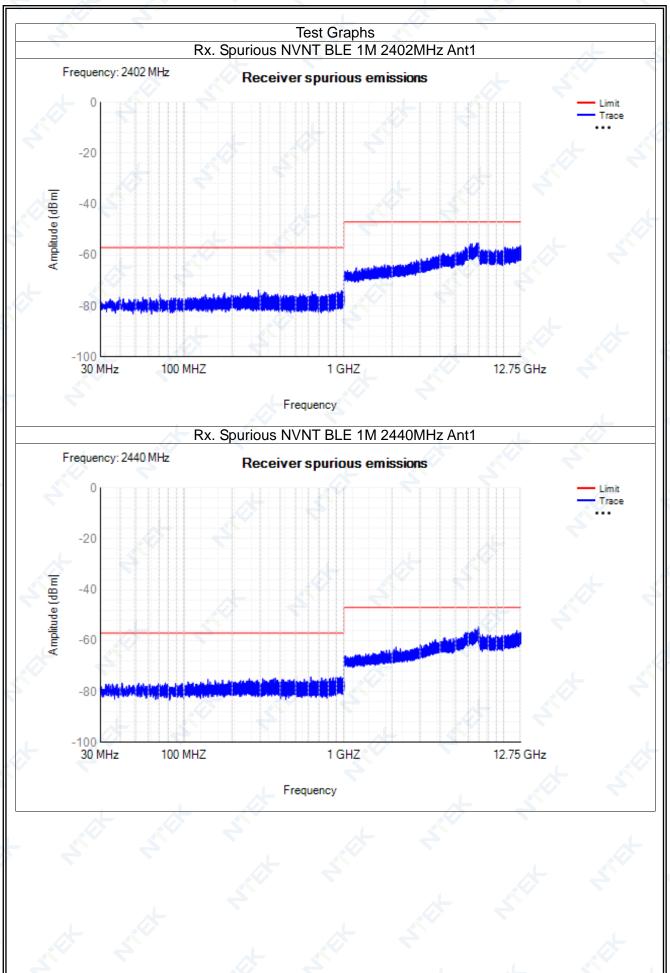


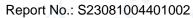


ı	•			_					
k	41	16	ĸ	ACAIVA	. C	niiria	JIIC	emissions	
Ī	т.	U	1.	CCCIVCI	3	puik	Jus	Cilliagiona	

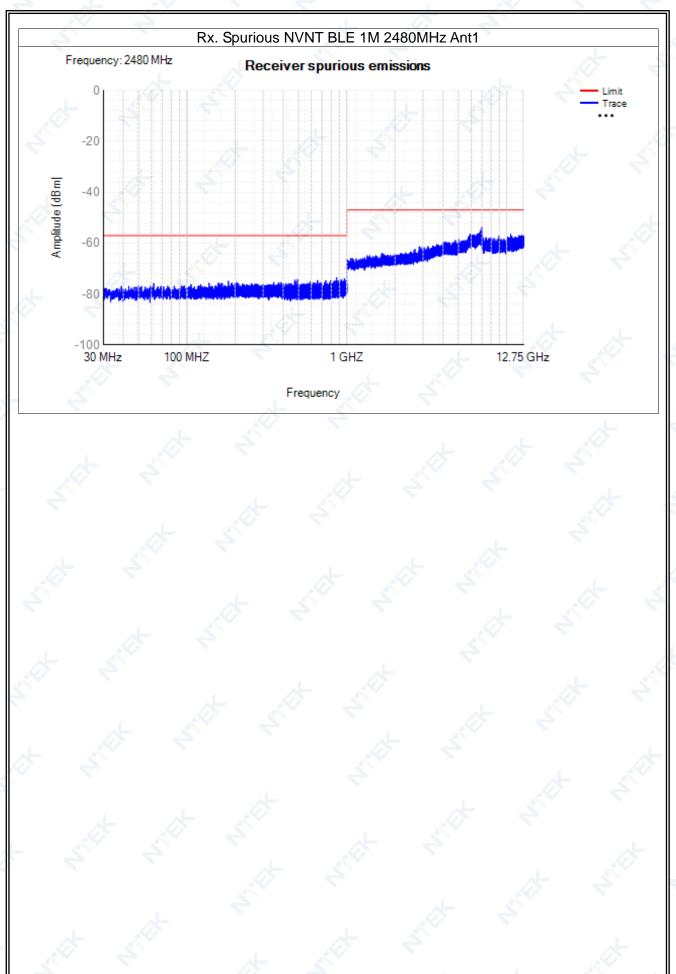
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	30 -1000	292.55	-73.72	NA	-57	Pass
NVNT	BLE 1M	2402	Ant1	1000 -12750	6955.5	-55.16	NA	-47	Pass
NVNT	BLE 1M	2440	Ant1	30 -1000	958.05	-74.22	NA	-57	Pass
NVNT	BLE 1M	2440	Ant1	1000 -12750	6968	-54.61	NA	-47	Pass
NVNT	BLE 1M	2480	Ant1	30 -1000	864	-73.52	NA	-57	Pass
NVNT	BLE 1M	2480	Ant1	1000 -12750	6995.5	-53.84	NA	-47	Pass









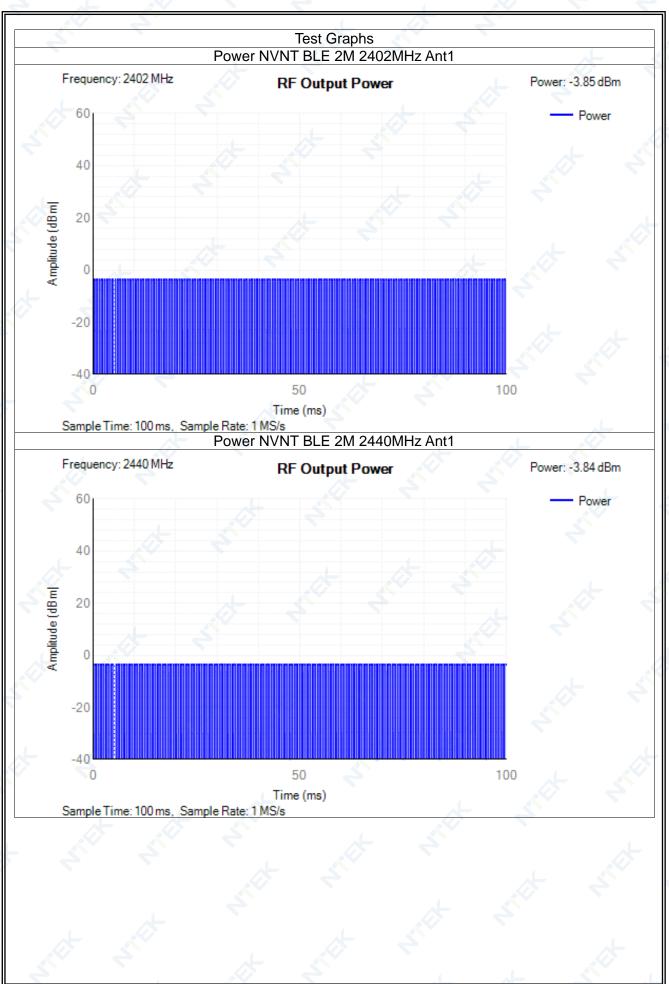




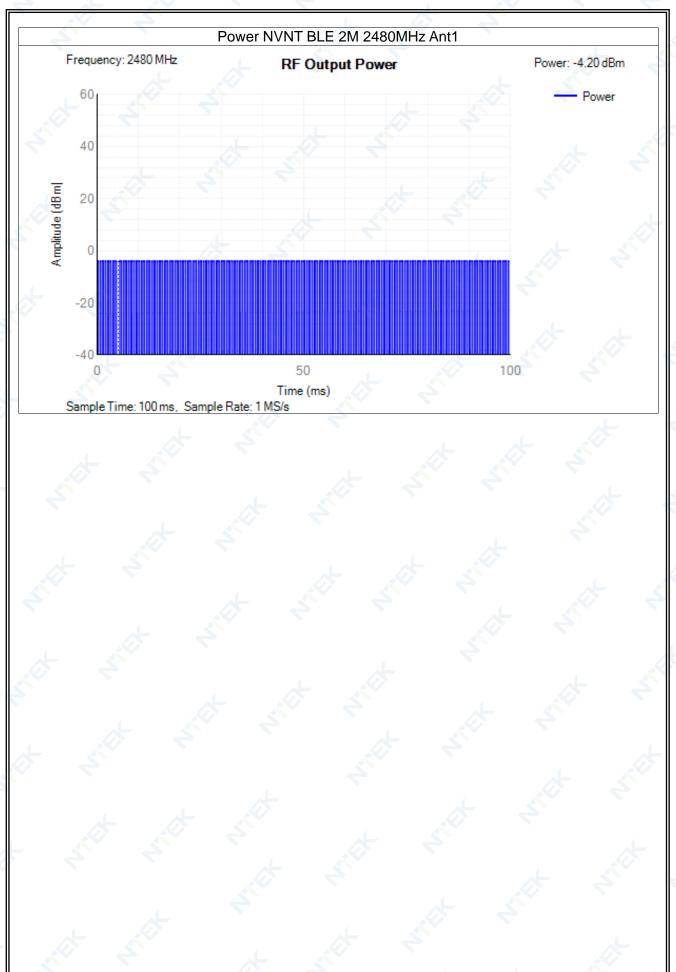
2М:

4.2.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE-2M	2402	-3.85	160	-2.35	20	Pass
NVNT	BLE-2M	2440	-3.84	161	-2.34	20	Pass
NVNT	BLE-2M	2480	-4.2	160	-2.7	20	Pass
NVLT	BLE-2M	2402	-4.7	161	-3.2	20	Pass
NVLT	BLE-2M	2440	-4.62	161	-3.12	20	Pass
NVLT	BLE-2M	2480	-4.74	161	-3.24	20	Pass
NVHT	BLE-2M	2402	-4.76	161	-3.26	20	Pass
NVHT	BLE-2M	2440	-4.52	161	-3.02	20	Pass
NVHT	BLE-2M	2480	-4.54	161	-3.04	20	Pass











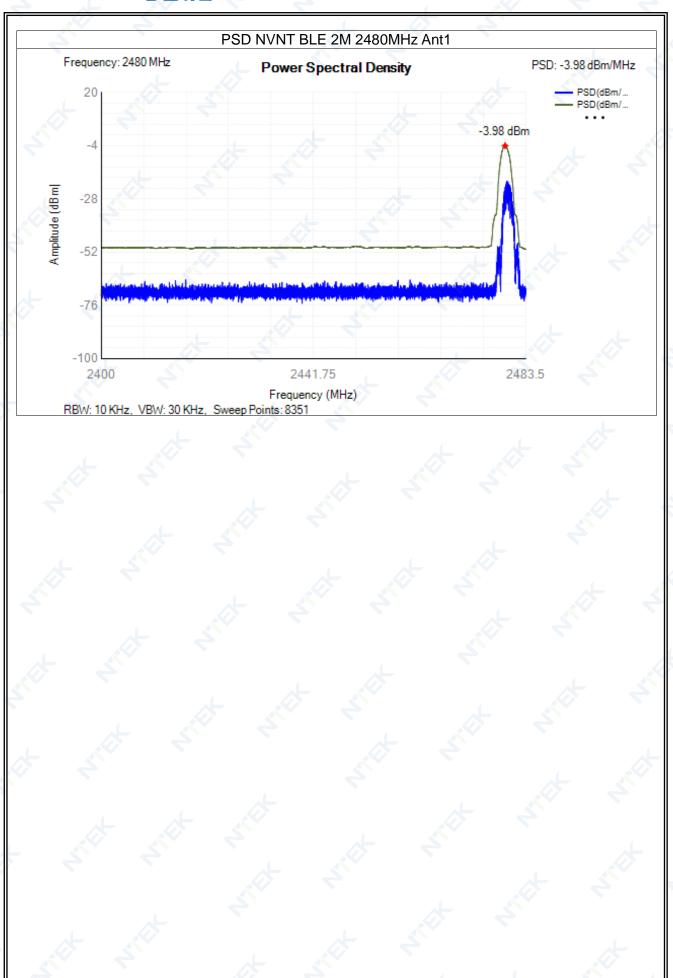
4.2.2 Power Spectral Density

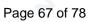
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	-3.59	10	Pass
NVNT	BLE 2M	2440	Ant1	-3.56	10	Pass
NVNT	BLE 2M	2480	Ant1	-3.98	10	Pass



Test Graphs PSD NVNT BLE 2M 2402MHz Ant1 Frequency: 2402 MHz PSD: -3.59 dBm/MHz Power Spectral Density PSD(dBm/... PSD(dBm/... -3.59 dBm Amplitude (dBm] -28 -52 -76 -100 2441.75 2483.5 2400 Frequency (MHz) RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351 PSD NVNT BLE 2M 2440MHz Ant1 Frequency: 2440 MHz PSD: -3.56 dBm/MHz Power Spectral Density 20 PSD(dBm/... PSD(dBm/... -3.56 dBm Amplitude (dBm) -28 -52 -100 2400 2441.75 2483.5 Frequency (MHz) RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351







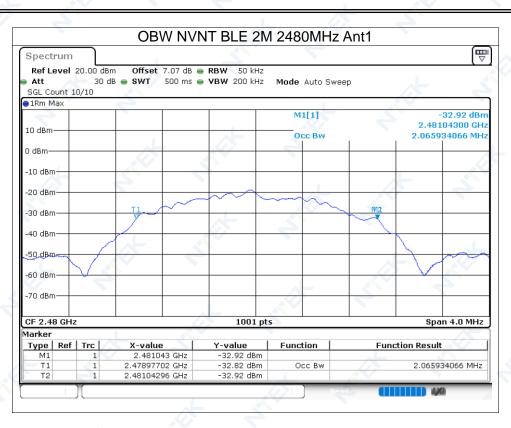


Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	2402.014	2.066	2400.981	2403.047	2400 - 2483.5MHz	Pass
NVNT	BLE 2M	2440	Ant1	2440.012	2.062	2438.981	2441.043	2400 - 2483.5MHz	Pass
NVNT	BLE 2M	2480	Ant1	2480.01	2.066	2478.977	2481.043	2400 - 2483.5MHz	Pass



Page 68 of 78



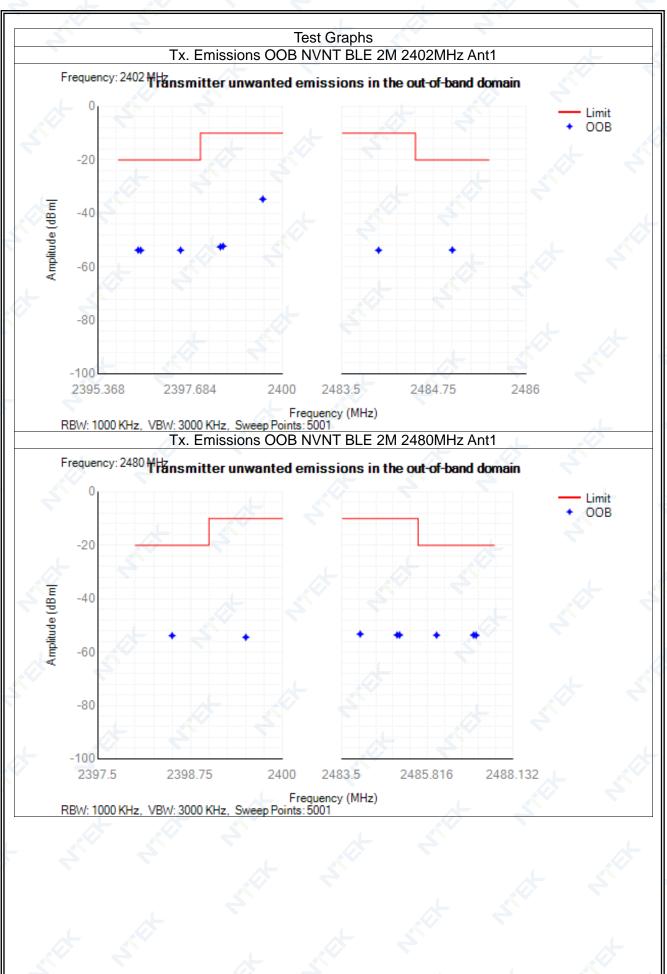




4.2.4 Transmitter unwanted emissions in the out-of-band domain

NVNT BLE 2M 2402 Ant1 2399.5 -34.67 -10 NVNT BLE 2M 2402 Ant1 2398.5 -52.25 -10 NVNT BLE 2M 2402 Ant1 2398.434 -52.51 -10 NVNT BLE 2M 2402 Ant1 2397.434 -53.75 -20 NVNT BLE 2M 2402 Ant1 2396.434 -53.8 -20 NVNT BLE 2M 2402 Ant1 2396.368 -53.73 -20 NVNT BLE 2M 2402 Ant1 2484 -53.77 -10 NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10 NVNT BLE 2M 2480 <td< th=""><th>Verdict</th></td<>	Verdict
NVNT BLE 2M 2402 Ant1 2398.434 -52.51 -10 NVNT BLE 2M 2402 Ant1 2397.434 -53.75 -20 NVNT BLE 2M 2402 Ant1 2396.434 -53.8 -20 NVNT BLE 2M 2402 Ant1 2396.368 -53.73 -20 NVNT BLE 2M 2402 Ant1 2484 -53.77 -10 NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2402 Ant1 2397.434 -53.75 -20 NVNT BLE 2M 2402 Ant1 2396.434 -53.8 -20 NVNT BLE 2M 2402 Ant1 2396.368 -53.73 -20 NVNT BLE 2M 2402 Ant1 2484 -53.77 -10 NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2402 Ant1 2396.434 -53.8 -20 NVNT BLE 2M 2402 Ant1 2396.368 -53.73 -20 NVNT BLE 2M 2402 Ant1 2484 -53.77 -10 NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2402 Ant1 2396.368 -53.73 -20 NVNT BLE 2M 2402 Ant1 2484 -53.77 -10 NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2402 Ant1 2484 -53.77 -10 NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2402 Ant1 2485 -53.67 -20 NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2480 Ant1 2399.5 -54.43 -10 NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2480 Ant1 2398.5 -53.84 -20 NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2480 Ant1 2484 -53.24 -10 NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
NVNT BLE 2M 2480 Ant1 2485 -53.6 -10	Pass
	Pass
NI/NIT DI E 2M 2490 Apt1 2495 066 52.6 10	Pass
NVIVI BLE ZIVI 2400 AIILI 2403.000 -33.0 -10	Pass
NVNT BLE 2M 2480 Ant1 2486.066 -53.66 -20	Pass
NVNT BLE 2M 2480 Ant1 2487.066 -53.64 -20	Pass
NVNT BLE 2M 2480 Ant1 2487.132 -53.7 -20	Pass







Page 72 of 78 Report No.: S23081004401002

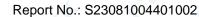
4.2.5 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	30 -47	32.55	-76.14	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	47 -74	65.75	-76.29	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	74 -87.5	85.80	-76.06	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	87.5 -118	106.00	-75.83	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	118 -174	121.45	-74.76	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	174 -230	197.50	-75.08	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	230 -470	390.80	-73.78	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	470 -694	607.40	-74.32	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	694 -1000	995.50	-73.86	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	1000 -2396	1699.00	-53.15	NA	-30	Pass
NVNT	BLE 2M	2402	Ant1	2487.5 -12750	6830.50	-45.16	NA	-30	Pass
NVNT	BLE 2M	2440	Ant1	30 -47	44.70	-74.35	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	47 -74	71.15	-76.30	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	74 -87.5	84.80	-76.83	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	87.5 -118	101.40	-75.07	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	118 -174	173.30	-75.10	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	174 -230	228.40	-74.22	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	230 -470	271.05	-74.27	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	470 -694	490.80	-74.72	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	694 -1000	897.50	-71.77	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	1000 -2396	2258.50	-52.41	NA	-30	Pass
NVNT	BLE 2M	2440	Ant1	2487.5 -12750	6933.50	-44.59	NA	-30	Pass
NVNT	BLE 2M	2480	Ant1	30 -47	34.00	-76.68	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	47 -74	56.20	-76.67	NA	-54	Pass
NVNT	BLE 2M	2480	Ant1	74 -87.5	80.90	-77.10	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	87.5 -118	105.70	-75.32	NA	-54	Pass
NVNT	BLE 2M	2480	Ant1	118 -174	165.05	-74.64	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	174 -230	192.05	-75.64	NA	-54	Pass
NVNT	BLE 2M	2480	Ant1	230 -470	289.85	-74.08	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	470 -694	672.85	-74.89	NA	-54	Pass
NVNT	BLE 2M	2480	Ant1	694 -1000	997.40	-73.71	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	1000 -2396	1722.50	-52.57	NA	-30	Pass
NVNT	BLE 2M	2480	Ant1	2487.5 -12750	6969.00	-44.67	NA	-30	Pass

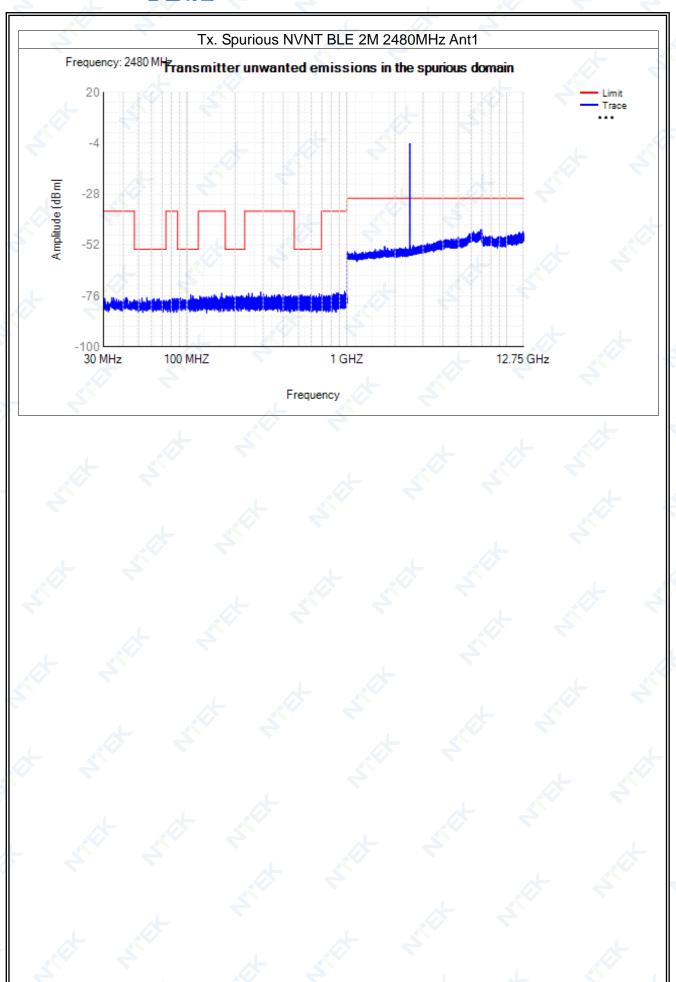


Test Graphs Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Frequency: 2402 MH ransmitter unwanted emissions in the spurious domain Amplitude (dBm) -28 -52 -100 L 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Frequency: 2440 MH Transmitter unwanted emissions in the spurious domain Amplitude (dBm) -28 -52 -100 L 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency









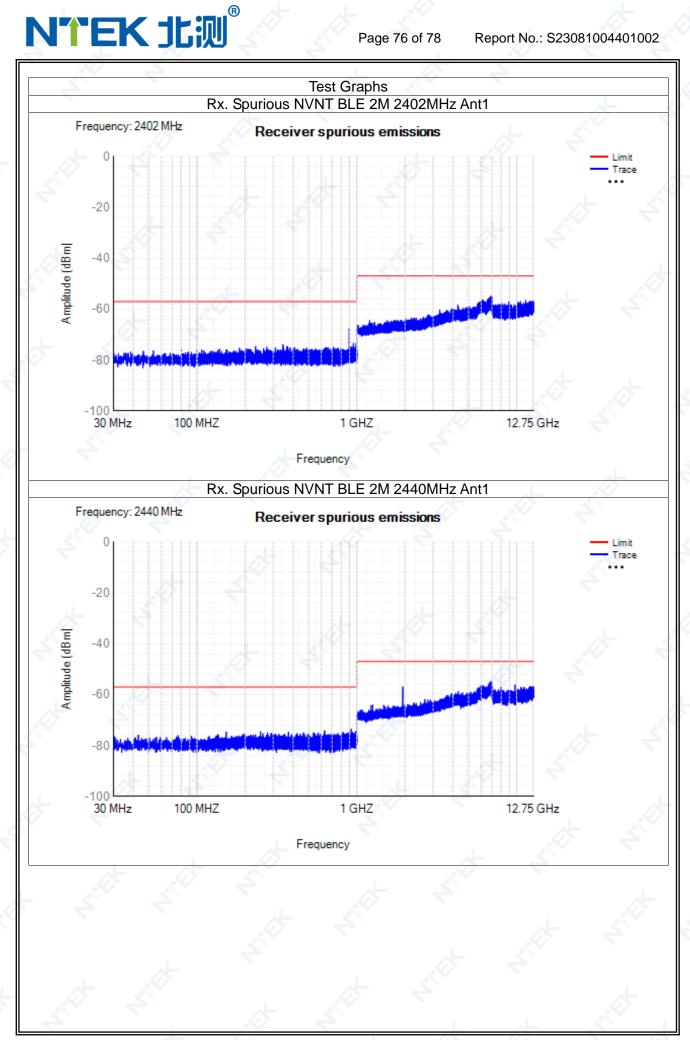




I	4.2.	6 F	Receiver	spurious	emissions
ı		_			

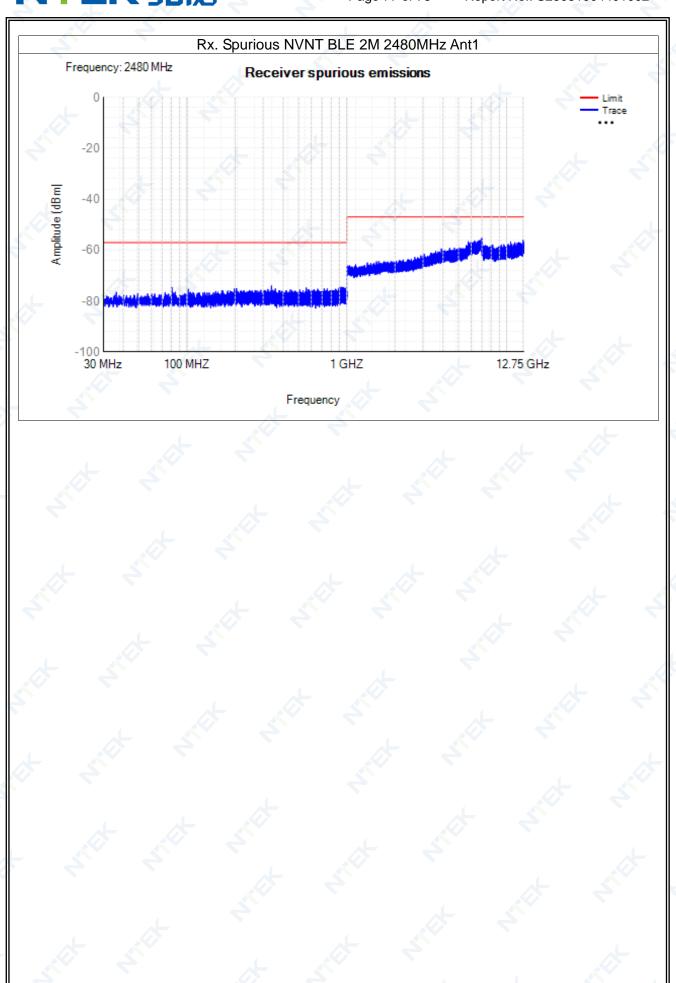
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	30 -1000	897.7	-67.50	NA	-57	Pass
NVNT	BLE 2M	2402	Ant1	1000 -12750	6973	-55.01	NA	-47	Pass
NVNT	BLE 2M	2440	Ant1	30 -1000	923.95	-73.49	NA	-57	Pass
NVNT	BLE 2M	2440	Ant1	1000 -12750	6897.5	-54.72	NA	-47	Pass
NVNT	BLE 2M	2480	Ant1	30 -1000	338.3	-74.09	NA	-57	Pass
NVNT	BLE 2M	2480	Ant1	1000 -12750	6987	-55.36	NA	-47	Pass

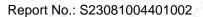










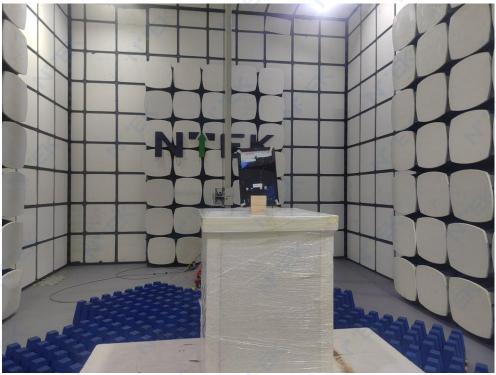




5. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT